

METROPOLITAN TRANSPORT CORPORATION (CHENNAI) LIMITED

Pre-Bid Meeting for "Request for Proposal for selection of System Integrator to "Design, Supply, Implement, Commission, Operate & Manage the Safe City Solution" as a part of Nirbhaya Safe City Project for Metropolitan Transport Corporation" was held online on 14.08.2020 @ 11:00 hrs

Clarification to Pre - Bid Queries

Sl. No.	Vol. No	Sec. No	Clause No	Page No	Content in the RfP	Clarification sought	Clarification / Response / Amendment
1	1		-	1	RFP No. : 17/44017/Proj/MTC/2020 Tender Ref. No : 17-44017-Project section-MTC-2020 (from www.tenders.tn.gov.in)	Seek clarification : Which Reference number to be considered ?	Use the same printed on RFP Volumes "17/44017/Proj/MTC/2020"
2	1		3	2	Date and Time for submission of Bids 14-09-2020 at 3: 00 PM	Due to COVID 19, Kindly extend the bid submission date atleast for 1 month.	Tender Clause remain Unchanged
3	1		-	2	Date and Time for submission of Bids 14-09-2020 at 3: 00 PM	Date and Time for submission of Bids 30-10-2020 at 3: 00 PM	Tender Clause remain Unchanged
4	1		3	2	Date and Time for submission of Bids 14-09-2020 at 3: 00 PM	<u>Kindly extend the bid submission date atleast 1 month</u>	Tender Clause remain Unchanged
5	1	1.5	5-EMD	8	INR 70 Lakhs only by Demand Draft (DD)	We request the EMD should be accepted in BG form also. As that being the standard practice as well as bidder need not lock in Rs 70 Lakhs . Also request to provide EMD BG format	Tender Clause remain Unchanged
6	1	1.5	5-EMD	8	Earnest Money Deposit (EMD) INR 70 Lakhs only by Demand Draft (DD)	BG should be also allowed	Tender Clause remain Unchanged
7	1	1.5	5-EMD	8	Earnest Money Deposit (EMD) INR 70 Lakhs only by Demand Draft (DD)	Request you to also consider the payment mode as Bank Gurantee from Scheduled commercial Bank	Tender Clause remain Unchanged
8	1	1.5	8-Bid Validity	8	Bid must remain valid up to 180 (One Hundred & Eighty) days from the date of opening of Commercial Bid.	We feel that the bid validity period should be referenced to Bid submission date and nor the date of opening of Commercial Bid. We currently do not know the date of opening of Commercial Bid. Please change the clause accordingly	Agreed. It should be read as "Bid must remain valid up to 180 (One Hundred & Eighty) days from the date of submission of the Bid"
9	1	2.1	E	9	The bidder shall submit hard copy of the complete proposal in the format duly signed ON ALL PAGES by the authorized signatory of bidding organization (Lead Bidder in case of consortium). The bidder must also submit the soft copy in CD/DVD/USB and the content must be same as hardcopy bid proposal being submitted by the bidder. The bidder shall ensure hard copy of bid / proposal shall be neatly bound, covered in sealed envelope any loose sheets in the hard copy document submission should be avoided.	As we all are aware regarding the Pandemic situation, we request the authority to only accept the online bid and as the hard copy of the technical bid is a challenge in these times.	Tender clause remains unchanged
10	1	2.1	F	9	The commercial bid shall be submitted in Separate Envelope Clearly mentioning Commercial Bid.	As we all are aware regarding the Pandemic situation, we request the authority to only accept the online bid and as the hard copy of the Commercial bid is a challenge in these times. Further we request to provide the excel.	Tender clause remains unchanged

11	1	2.1	D, E, F	9	D. Bids shall be received physically by the MTC before the time and date specified in the schedule of the tender notice. E. The bidder shall submit hard copy of the complete proposal in the format duly signed ON ALL PAGES by the authorized signatory of bidding organization (Lead Bidder in case of consortium). The bidder must also submit the soft copy in CD/DVD/USB and the content must be same as hardcopy bid proposal being submitted by the bidder. The bidder shall ensure hard copy of bid / proposal shall be neatly bound, covered in sealed envelope any loose sheets in the hard copy document submission should be avoided. F. The commercial bid shall be submitted in Separate Envelope Clearly mentioning Commercial Bid.	The current pandemic situation due to Covid19 and the lockdown enforced by the Govt of India, has impacted the logistics and courier movements across states, it is challenging for most bidders to submit the physical copies to MTC. We request MTC to kindly amend the bid submission mode as online bid submission and mandate physical submission of Cover A of technically qualified bidders, only post technical evaluation..	Tender clause remains unchanged
12	1	2.1	Clause 2.1 , Clause D	9	Bids shall be received physically by the MTC before the time and date specified in the schedule of the tender notice. In the event of the specified date for the submission of tender offers being declared a public holiday by the Government of Tamil Nadu, the offers will be received up to the appointed time on the next working day. The MTC may, at its discretion, extend this deadline for submission of offers by issuing corrigendum and uploading the same on the portal.	Request you to please consider soft copy submission , hard copy will be submitted within a week of bid submission due date	Tender clause remains unchanged
13	1	2.2	C	9	In case of Consortium Bids i. Maximum of 3 entities are allowed to form a consortium bid. Out of the 3 entities; one of them would act as Lead Bidder and other 2 would act as Consortium Partners.	Request you to confirm if 3 entities are allowed in consortium. There is conflict of this in RFP's Volume	Yes Your understanding is correct. Maximum Number of Entities allowed is 3 (Lead Bidder + Consotium Partner 1 + Consortium Partner 2)
14	1	2.8	2.8	12	EMD of INR 70,00,000/- (Indian Rupees Seventy Lakhs only) shall be through a Demand Draft from a scheduled bank/ Nationalized Bank in India drawn in favour of "The Managing Director, MTC, Chennai" payable at Chennai. No exemption for submitting the EMD will be given to any agency. EMD in any other form will not be entertained.	We request you to kindly allow us the Bank Guarantee mode for submitting the EMD	Tender clause remains unchanged
15	1	2.8	2.8	12	EMD of INR 70,00,000/- (Indian Rupees Seventy Lakhs only) shall be through a Demand Draft from a scheduled bank/ Nationalized Bank in India drawn in favour of "The Managing Director, MTC, Chennai" payable at Chennai. No exemption for submitting the EMD will be given to any agency. EMD in any other form will not be entertained.	We request to change the point as "EMD of INR 70,00,000/- (Indian Rupees Seventy Lakhs only) shall be through a Demand Draft (or) Bank Guarantee from a scheduled bank/ Nationalized Bank in India drawn in favour of "The Managing Director, MTC, Chennai" payable at Chennai. No exemption for submitting the EMD will be given to any agency. EMD in any other form will not be entertained.	Tender clause remains unchanged
16	1	2.8	2.8	12	EMD of INR 70,00,00 (Indian Rupees Seventy Lakhs only) Shall be through a DD from a scheduled bank/Nationalized bank in India.	As per RFP Technical Evaluation Parameters, Organization Strength For MSME Certification 2 marks is scoring for Bidder/Consortium. Based on this please consider the EMD exemption for Bidder/ Consortium having MSME certificate. Kindly Consider.	Tender clause remains unchanged
17	1	2.8	2.8	12	Earnest Money Deposit (EMD)	As per GFR guidelines we request you to provide exemption for MSME registered units.	Tender clause remains unchanged
18	1	2.10.1	6	13	6) The Bidder shall submit Hard Copy in separate envelope as mentioned below along with Soft copy of the original Bid documents in CD/DVD/USB on or before the Bid Due Date and Time. i) Commercial Bid / Financial Bid - Inclusion of any Financial Bid information in other parts would lead to disqualification of the Bid. It should be submitted only in hard copy in separate envelope only.	The current pandemic situation due to Covid19 and the lockdown enforced by the Govt of India, has impacted the logistics and courier movements across states, it is challenging for most bidders to submit the physical copies to MTC. We request MTC to kindly amend the bid submission mode as online bid submission and mandate physical submission of Cover A of technically qualified bidders, only post technical evaluation..	Tender clause remains unchanged
19	1	2.11.1	17	15	Hard Copy Submission - YES	Please amend as Online submission + Hardcopy submission (post technical evaluation).	Tender clause remains unchanged

20	1	2.11.2	10	15	Bidder's Experience - Project citation as per format provided in Error! Reference source not found. in section 8.4 and supporting documentary evidences and Self-certifications as per format in section 8.5 as Applicable.	Please confirm if any source code missing in this clause.	It is just formatting error. It should be read as "Project citation as per format provided in section 8.4 and supporting documentary evidences and Self-certifications as per format in section 8.5 as Applicable."
21	1	2.11.2	8	15	Bidder Certifications Copies of valid certificates in the name of the sole bidder or the Lead bidder in case of a Consortium	Hope valid certificates of any member of consortium (in case of consortium) can be considered here. Please confirm.	Yes Your understanding is Correct For Project Experience
22	1	2.11.2	17	16	Hard Copy Submission - YES	Please amend as Online submission + Hardcopy submission (post technical evaluation).	Tender clause remains unchanged
23	1	2.12	2.12	16	In order to have control on reasonability of the CAPEX and OPEX costing, it has been envisaged to have CAPEX:OPEX ratio i.e. the total cost of CAPEX in section I of the Price BID shall not exceed 60% of the total of CAPEX & OPEX cost in Section I. BIDDERS SHALL ENSURE THE QUOTED PRICE BID IN SECTION 1 ABIDES BY THIS RATIO. Only commercial bids which comply to this ratio would be considered for further course of evaluation.	Request that the clause be modified as: "In order to have control on reasonability of the CAPEX and OPEX costing, it has been envisaged to have CAPEX:OPEX ratio i.e. the total cost of CAPEX in section I of the Price BID shall not exceed 75% of the total of CAPEX & OPEX cost in Section I. BIDDERS SHALL ENSURE THE QUOTED PRICE BID IN SECTION 1 ABIDES BY THIS RATIO. Only commercial bids which comply to this ratio would be considered for further course of evaluation."	Agreed. Clause modified as "In order to have control on reasonability of the CAPEX and OPEX costing, it has been envisaged to have CAPEX:OPEX ratio i.e. the total cost of CAPEX in section I of the Price BID shall not exceed 75% of the total of CAPEX & OPEX cost in Section I. BIDDERS SHALL ENSURE THE QUOTED PRICE BID IN SECTION 1 ABIDES BY THIS RATIO. Only commercial bids which comply to this ratio would be considered for further course of evaluation."
24	1	2.12	2.12	16	In order to have control on reasonability of the CAPEX and OPEX costing, it has been envisaged to have CAPEX:OPEX ratio i.e. the total cost of CAPEX in section I of the Price BID shall not exceed 60% of the total of CAPEX & OPEX cost in Section I. BIDDERS SHALL ENSURE THE QUOTED PRICE BID IN SECTION 1 ABIDES BY THIS RATIO. Only commercial bids which comply to this ratio would be considered for further course of evaluation.	The major spend in project is for the CAPEX side. The scope demands considerably good quantity of hardware, civil and related software for this tender. Considering the scope and the cost impact on CAPEX material, request authority to amend the "CAPEX : OPEX ratio as 70 : 30"	Clause modified as "In order to have control on reasonability of the CAPEX and OPEX costing, it has been envisaged to have CAPEX:OPEX ratio i.e. the total cost of CAPEX in section I of the Price BID shall not exceed 75% of the total of CAPEX & OPEX cost in Section I. BIDDERS SHALL ENSURE THE QUOTED PRICE BID IN SECTION 1 ABIDES BY THIS RATIO. Only commercial bids which comply to this ratio would be considered for further course of evaluation."
25	1	2.12	2.12	16	The envisaged project is a growing solution therefore it is anticipated for vertical and horizontal growth of the solution in the future. Therefore in order to facilitate the procurement of this upgradation, the line items likely to be upgraded have been identified and their prices are being discovered in the Section 2 of the Price Bid. The prices discovered in this section shall be valid till the end of contract period of System Integrator so that the authority may use it as rate card for procurement as per the actuals demands in future. The cost of such upgradation items are sought against arbitrary quantities which is used only for evaluation purposes. The MTC shall evaluate and may place an order to actual demanded quantity based on unit rates discovered in this section.	Requesting you to Consider the tenure of the project as well as the no minimum guaranteed quantity in near future, it will be difficult to maintain the same price for individual item over the period of contract. So please change this clause to reasonable period, say 180 days, rather than the over the period of contract & rate chart can be consider as a price for negotiation based on the quantity & price changes over the period of contract.	Bidder to Quote the Price Accordingly. Hence the tender clause remains unchanged
26	1	2.13	2.13	17	For purposes of interpretation of the documents, the English translation shall govern. Such translated documents shall be notarized and incase of any incorrectness of the translation, the bidder will be penalized.	Requesting MTC to remove this clause, as it is not a common practice found in public sector/government tenders to penalize any incorrectness in translated documents. Also please remove the notarization of translated documents and allow bidder's authorized signatory to certify the translated documents to be true and correct.	Tender clause remains unchanged
27	1	New			Statutory Variation	We understand that all statutory variation in taxes, levies and duties will be in the scope of MTC. Please confirm.	Any Variation in GST will be adjusted accordingly
28	1	2.16	2.16	17	Bidders shall give the required details of all applicable GST, duties, other levies and charges etc. in respect of direct transaction between MTC and the Bidder.	Our understanding is GST will be paid extra at actual by MTC for the quoted price. Please confirm.	Any Variation in GST will be adjusted accordingly

29	1	2.17	2.17	18	The bids with deviation(s) are liable for rejection.	Deviations in specification for few components could be observed during submission of bid as there are many criteria that is OEM centric and could vary with different manufacturer. Restriction to accommodate such changes makes the bid less competitive. Authority can ensure no compromise on the performance of the product even with slight deviations. Hence authority is requested to remove these clause.	Technical Deviation is allowed only if the Bidder provide alternate solutions with proper justification which maintains the same functionality as intended by the Authority. The same has to be proved during the Proof Of Concept. Tender Scrutiny Committee to decide whether to accept or reject the Bid
30	1	2.20	2.20	18	A bid may be construed as a non-conforming bids and ineligible for consideration. A. If it does not comply with the requirements of this RfP.	Deviations in specification for few components could be observed during submission of bid as there are many criteria that is OEM centric and could vary with different manufacturer. Restriction to accommodate such changes makes the bid less competitive. Authority can ensure no compromise on the performance of the product even with slight deviations. Hence authority is requested to remove these clause.	Technical Deviation is allowed only if the Bidder provide alternate solutions with proper justification which maintains the same functionality as intended by the Authority. The same has to be proved during the Proof Of Concept. Tender Scrutiny Committee to decide whether to accept or reject the Bid
31	1	General Query	General Query			MNVR and IP camera increases the cost of solution. Can we consider analog camera with higher resolution (2MP camera) and MDVR. This will reduce cost. Please suggest.	Technical Deviation is allowed only if the Bidder provide alternate solutions with proper justification which maintains the same functionality as intended by the Authority. The same has to be proved during the Proof Of Concept. Tender Scrutiny Committee to decide whether to accept or reject the Bid
32	1	2.23	12	20	All the copies should be self-attested by the bidder, failing which their bid will be rejected.	In case of consortium, we understand the lead bidder needs to self attest all the documents including those of consortium members. Please confirm.	Yes, Your understanding is correct
33	1	2.27	2.27	23	The bidder would not be allowed to sub-contract work, except for the following: - Cabling and fixtures work, and all civil work during implementation. - Facility Management Staff at CCC. Sub-contracting shall be allowed only with prior written approval of MTC. 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 anydelay/ error/ non-compliance etc. of its sub-contracted vendor. The details of the sub-contracting agreements (if any) between both the parties would be required to be submitted to MTC.	2.27 Sub-Contracting: Sub-contracting shall be allowed to certain works and 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 anydelay/ error/ non-compliance etc. of its sub-contracted vendor.	Tender clause remains unchanged
34	1	2.27	2.27	23	The bidder would not be allowed to sub-contract work, except for the following: • Cabling and fixtures work, and all civil work during implementation. • Facility Management Staff at CCC. Sub-contracting shall be allowed only with prior written approval of MTC. 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 anydelay/ error/ non-compliance etc. of its sub-contracted vendor. The details of the sub-contracting agreements (if any) between both the parties would be required to be submitted to MTC.	2.27 Sub-Contracting: The bidder would not be allowed to sub-contract work, except for the following: • Cabling and fixtures work, and all civil work during implementation. • Facility Management Staff at CCC and <u>Installation of camera & NVR in buses and depot</u> Sub-contracting shall be allowed only with prior written approval of MTC. 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 anydelay/ error/ non-compliance etc. of its sub-contracted vendor. The details of the sub-contracting agreements (if any) between both the parties would be required to be submitted to MTC.	Installation of Cameras & NVR is part of Cabling and Fixture work. Hence the Tender clause remains unchanged
35	1	2	2.28	24	Activities that can be sub-contracted to MSME/MSE partners are restricted to those defined under Sub-Contracting Clause 2.28	Sir, there is no clarity on activities that can be subcontracted to MSME/MSE. Kindly elaborate activities that can be subcontracted to MSME/MSE.	Clause is self-explanatory

36	1	2.29	2.29	24	Choice of Original Equipment Manufacturer (OEM)	As per latest GFR ammendmend regarding imposition of restrictions on bidders/OEM from countries which share a land border with India. The restrictions on public procurement from such countries can be imposed for reasons of national security, pls carify to choose OEM.	See Prebid Addendum 1
37	1	2.29	2.29	24	The bidder may evaluate products being proposed are not end of life and also there is guarantee of OEM support for minimum period of 6 years.	Most of the product now a days are coming with 5 years of support and therefore we request you to please revise the requirement of OEM support for 5 years.	Agreed.
38	1	2. 29	2.29	24	The bidder may evaluate products being proposed are not end of life and also there is guarantee of OEM support for minimum period of 6 years	The IT Hardware used in the project remain fit for use for five years. No OEM offers warranty and AMC for more than 5 years We request the authority to change the clause as follows: The bidder may evaluate products being proposed are not end of life and also there is guarantee of OEM support for minimum period of 5 years	Agreed.
39	1	2.30	i	24	Right to vary quantity	What is the maximum or minimum possible percentage of variation in quantities procured by MTC ? Please specify the upper and lower limits.	The Same is already mentioned under section 10.4 Price Discovery for Additional Order
40	1	2.30	i	24	At the time of award of contract, the quantity of goods, works or services originally specified in the bidding documents may be increased. It shall be without any change in the unit prices or other terms and conditions of the Bid and the bidding documents.	Request that the quantity variation be capped to +- 15% of the respective products and services.	The Same is already mentioned under section 10.4 Price Discovery for Additional Order
41	1	3.1	3.1	26	The tenders for technical bid shall be opened by a Tender scrutiny committee constituted for this purpose at Metropolitan Transport Corporation, Pallavan House, Anna Salai, Chennai on 14-09-2020 at 3:30 PM.	To provide the bidders sufficient time to analyze the Prebid responses and any addendum, we request MTC to extend the bid submission due date to at least 4 weeks from the date of release of such response/addendum.	Tender clause remains unchanged
42	1	3.4.2	D	27	Bidders shall be earmarked an exclusive open space where the bidder shall install the envisaged components and demonstrate the "Proof-of-Concept" to the Tender Evaluation Committee / Tender Scrutiny Committee appointed by the MTC. The place for showing demonstration would be provided by MTC and bidder may setup sample components and showcase live demonstrations to Technical Evaluation Committee	There is no timeline mentioned for the Proof-of-Concept. We request MTC to provide bidders at least 4 weeks prior intimation for performing the Proof-of-Concept, as we understand that the Live Prototype Demonstration is also the part of Proof-of-Concept which takes considerable time and planning for arranging hardware for demonstration at the location specified by MTC. Also the authority is requested accept remote demonstration in case the pandemic situation is not eased by the time of PoC.	Each Bidder will have to run the POC in real time. They have to install 3 cameras and 4 Panic Buttons in a MTC Bus and have to show the Live Demo of Surveillance Feed reaching CCC at MTC Office. Successful Bidder During this POC has better chance for winning this bid. All Bidders who have qualified at Pre-Qualification stage will be intimated immediately to do the installation and may be given maximum 2 weeks to perform the POC from Bid Opening
43	1	4	Additional	29	Prequalification -OEM	Since this project is reputed and required secure effort interms of Project execution would like to request you to kindly consider below OEM criteria in the Pre-qualification requirements, as OEM also plays crucial role in this kind of prestigious Project	Tender Clause remain Unchanged
44	1	4	Additional	29	Prequalification -OEM	OEM should have registered office in India with Service Centre facility with minimum 3 years of presense in Indian Market	Tender Clause remain Unchanged
45	1	4	Additional	29	Prequalification -OEM	OEM should be from reputed make with International acclaimed Top 10 ranking as per IHS market survey	Tender clause remains unchanged
46	1	4	Additional	29	Prequalification -OEM	OEM should have supplied minimum 2000qty of the Camera and MNVR in Indian PSU/ Govt Projects	Tender Clause remain Unchanged
47	1	4	Additional	29	Prequalification -OEM	The MAC address of the IP cameras must be registered in the name of quoted OEM brand	Agreed. The MAC address of the IP cameras must be registered in the name of quoted OEM brand
48	1	4	Additional	29	Prequalification -OEM	Camera and mNVR should be proposed from same OEM for the purpose of better integration and quality of services.	Tender Clause remain Unchanged

49	1	4	Additional	29	Prequalification -OEM	The OEM for IP Cameras & VMS should have a registered entity and direct presence in India for more than 10 years as on bid submission date and should be present globally in the same line of manufacturing for at least 15 years. They should submit a declaration letter along with letter of incorporation confirming the same.	Tender clause remains unchanged
50	1	4	Additional	29	Prequalification -OEM	The OEM for IP Cameras & VMS should have at least 50 employees on its payroll in India. Declaration letter from the HR/country Head/Director/CEO of OEM to be submitted along with the bid.	Tender clause remains unchanged
51	1	4	Additional	29	Prequalification -OEM	The OEM for IP Cameras & VMS must have a self owned (not as joint venture, partnership firms or through any other association) service/support and RMA centre in India from past 5 years including at least 10 number of Level 2 & Level 3 service engineers. It should also have a self owned toll free number along with ticketing website for logging calls and obtaining service docket/ticket.	Tender clause remains unchanged
52	1	4	Additional	29	Prequalification -OEM	OEM should have never been black listed / banned /removed from any govt. /PSU / Consulates in India or abroad. Declaration to be submitted duly signed by the country Head/Director/CEO of OEM.	Tender clause remains unchanged
53	1	4	Additional	29	Prequalification -OEM	The MAC address of the IP Cameras must be registered in the name of OEM supplying the Cameras. Declaration to be submitted with bid duly signed by the country Head/Director/CEO of OEM.	Agreed. The MAC address of the IP cameras must be registered in the name of quoted OEM brand
54	1	4	Additional	29	Prequalification -OEM	The OEM for IP Cameras should be a member of the any of the "ONVIF Technical Committee" on the date of bid submission. Suitable evidence document to be submitted with bid.	Tender clause remains unchanged
55	1	4	Additional	29	Prequalification -OEM	The Camera OEM should have supplied minimum 2000 cameras with relevant AI solution (as required in this tender) in single project. Suitable evidence document to be submitted with bid.	Tender clause remains unchanged
56	1	4	Additional	29	Prequalification -OEM	The OEM for IP Cameras should not be originating from a country with which we have a land dispute issue	Preference to Make in India dated 4.06.2020 will be followed
57	1	General Query	General Query			Is there any additional benefit in marks for Made in India products	Preference to Make in India dated 4.06.2020 will be followed
58	1	4	Additional		OEM Criteria	For ensure the OEM of Camera and MNVR have enough experience for manufacture and provide high quality products. Request to add the OEM Criteria For Camera and MNVR: "The OEM of Camera and mNVR should have a presence in India (preferably Chennai) for the past seven years with a fully equipped repair and maintenance center in	Tender Clause remain Unchanged
59	1	4	Additional		OEM Criteria	For ensure the OEM of Camera and MNVR have enough experience for manufacture and provide high quality products. Request to add the OEM Criteria For Camera and MNVR: "The OEM of Camera and mNVR should have supplied minimum 5,000 IP Cameras in India as on bid submission date"	Tender Clause remain Unchanged
60	1	4	Additional		OEM Criteria	For ensure the OEM of Camera and MNVR have enough experience for manufacture and provide high quality products. Request to add the OEM Criteria For Camera and MNVR: "OEM should have an ISO 9001:2008 and ISO 14001:2004 for manufacturing process. Documents needed to be attached along with the bid. ISO/IEC 27001-Certified for Information security management system"	Tender Clause remain Unchanged

61	1	4	Additional		OEM Criteria	For ensure the OEM of Camera and MNVR have enough experience for manufacture and provide high quality products. Request to add the OEM Criteria For Camera and MNVR: "To guarantee the system cyber security, the OEM's should be complied to FIPS(Federal Information Processing Standard from U.S. Government) 140-2 module certifications."	Tender clause remains unchanged
62	1	4	Additional		OEM Criteria	For ensure the OEM of Camera and MNVR have enough experience for manufacture and provide high quality products. Request to add the OEM Criteria For Camera and MNVR: "The MAC address of the IP cameras and mNVR must be registered in the name of quoted OEM product"	Agreed. The MAC address of the IP cameras and mNVR must be registered in the name of quoted OEM brand
63	1	4	Additional		OEM Criteria	Request the OEM of camera and mNVR should have following mentioned Certifications to ensure the OEM have the capability to development for future expand: 1. ISO 9001:2015 2. ISO 14001:2004 for its manufacturing process 3. ISO 27001 for Information Security Management System 4. AIS004 certification for follow the automotive Industry Standard. 5. CMMI Level-3/Level 5 certification	Tender Clause remain Unchanged
64	1	4	1	29	All the Bidders should be operational over last 5 years as on date of submission of bid.	We request to change the point as "Lead Bidders should be operational over last 10 years as on date of submission of bid".	See Prebid Addendum 1
65	1	4	2	29	Eligibility Criteria: Average Annual Turnover of the bidder in Indian Rupees for last 3 audited Financial Years (FYs). Document Proof : Copy of audited financial statements or Certificate from the Statutory auditor / CA Certificate clearly specifying the annual turnover for the specified years	We hope the financial years 2016-17, 2017-18 and 2018-19 is considered for tender evaluation. Please confirm. Requesting MTC to kindly accept provisional financials of FY 2018-19, in case the bidder's FY 2018-19 auditing is not completed and under processing.	Kindly see section 8.3, Point C. "Bidder are given options to give details on Provisional Financial Turnover of 2019-20 instead of 2016-17" Last 3 audited Financial Years (FYs) can be either (i) 2017-18, 2018-19, 2019-2020 (Provisional or Final) or (ii) 2016-17, 2017-18, 2018-19
66	1	4	2	29	Average Annual Turnover of the bidder in Indian Rupees for last 3 audited Financial Years (FYs) <input type="checkbox"/> For Sole Bidder – Minimum INR 30 crores <input type="checkbox"/> For Consortium Bid - Turnover of all partners together should have Minimum INR 30 crores - Lead Bidder should have minimum Turnover of INR 20 crores	<u>Request you revise the clause as</u> Average Annual Turnover of the bidder in Indian Rupees for last 3 audited Financial Years (FYs) <input type="checkbox"/> For Sole Bidder – Minimum INR 200 crores <input type="checkbox"/> For Consortium Bid - Turnover of all partners together should have Minimum INR 200 crores - Lead Bidder should have minimum Turnover of INR 150 crores	Tender clause remains unchanged
67	1	4	2	29	Average Annual Turnover of the bidder in Indian Rupees for last 3 audited Financial Years (FYs) <input type="checkbox"/> For Sole Bidder – Minimum INR 30 crores <input type="checkbox"/> For Consortium Bid - Turnover of all partners together should have Minimum INR 30 crores - Lead Bidder should have minimum Turnover of INR 20 crores	In order to ensure participation of bidders with capability and expertise of handling a prestigious project of this nature, we request that the clause be modified as: Average Annual Turnover of the bidder in Indian Rupees for last 3 audited Financial Years (FYs) <input type="checkbox"/> For Sole Bidder – Minimum INR 200 crores <input type="checkbox"/> For Consortium Bid - Turnover of all partners together should have Minimum INR 200 crores - Lead Bidder should have minimum Turnover of INR 150 crores	Tender clause remains unchanged

68	1	4	2	29	Average Annual Turnover of the bidder in Indian Rupees for last 3 audited Financial Years (FYs)	We request you to kindly modify the clause as Average Annual Turnover of the bidder in Indian Rupees for last 3 audited Financial Years (FYs) 2017-18, 2018-19, 2019-2020	Kindly see section 8.3, Point C. "Bidder are given options to give details on Provisional Financial Turnover of 2019-20 instead of 2016-17" Last 3 audited Financial Years (FYs) can be either (i) 2017-18, 2018-19, 2019-2020 (Provisional or Final) or (ii) 2016-17, 2017-18, 2018-19
69	1	4	2	29	Average Annual Turnover of the bidder in Indian Rupees for last 3 audited Financial Years (FYs) <input type="checkbox"/> For Sole Bidder – Minimum INR 30 crores <input type="checkbox"/> For Consortium Bid - Turnover of all partners together should have Minimum INR 30 crores Lead Bidder should have minimum Turnover of INR 20 crores	We request to change the point as "The Bidder (Sole Bidder/Lead Bidder) should have minimum INR 50 Crores Average Annual Turnover in the last 3 audited Financial Years (FYs)".	Tender clause remains unchanged
70	1	4	2	29	Average Annual Turnover of the bidder in Indian Rupees for last 3 audited Financial Years (FYs)	Average Annual Turnover of the bidder in Indian Rupees for last 3 audited Financial Years (FYs)(2019-20 provisional accepted)	Kindly see section 8.3, Point C. "Bidder are given options to give details on Provisional Financial Turnover of 2019-20 instead of 2016-17" Last 3 audited Financial Years (FYs) can be either (i) 2017-18, 2018-19, 2019-2020 (Provisional or Final) or (ii) 2016-17, 2017-18, 2018-19
71	1	4	2	30	Average Annual Turnover of the bidder in Indian Rupees for last 3 audited Financial Years (FYs) <input type="checkbox"/> For Sole Bidder – Minimum INR 30 crores <input type="checkbox"/> For Consortium Bid - Turnover of all partners together should have Minimum INR 30 crores Lead Bidder should have minimum Turnover of INR 20 crores	We understand that in order to execute the project of such value, intending Bidder should be financially strong as such turnkey projects require initial investments. Hence we request you kindly to amend the clause as below:- Average Annual Turnover of the bidder in Indian Rupees for last 3 audited Financial Years (FYs) <input type="checkbox"/> For Sole Bidder – Minimum INR 70 crores <input type="checkbox"/> For Consortium Bid - Turnover of all partners together should have Minimum INR 70 crores Lead Bidder should have minimum Turnover of INR 50 crores	Tender clause remains unchanged
72	1	4	3	30	Eligibility Criteria: Positive Net Worth for all the Bidders in Indian Rupees for each of the last 3 audited FY.	Requesting MTC to kindly evaluate the net worth of the Lead bidder only, in case of consortium. Also generally in Indian public tenders, the bidder's net worth in last financial year only is considered for evaluation. Kindly amend the criteria as below: Positive Net Worth for the Sole Bidder/ Lead Bidder (in case of consortium) in Indian Rupees as on 31st March 2019.	Tender clause remains unchanged
73	1	4	3	30	Positive Net Worth for all the Bidders in Indian Rupees for each of the last 3 audited FY.	In order to ensure participation of bidders with capability and expertise of handling a prestigious project of this nature, we request that the clause be modified as: A Net Worth of INR 100 crores for all the Bidders in each of the last 3 audited FY.	Tender clause remains unchanged
74	1	4	4	30	The Bidder (Sole / Lead Bidder / Consortium Partners) should have over 50 professionally qualified resources on their rolls	In order to ensure participation of bidders with capability and expertise of handling a prestigious project of this nature, we request that the clause be modified as: The Bidder (Sole / Lead Bidder / Consortium Partners) should have over 500 professionally qualified resources on their rolls.	Tender clause remains unchanged

75	1	4	6	30	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector with minimum INR 10 Crores in the last 5 years * Centralised monitoring of IoT devices (Cameras, Sensors) across City / State * Surveillance Camera Solution* Cloud based Solution * E-Governance Solution	Here the centralised monitoring of IOT devices also covers GPS devices , but they are not mentioned in the bracket . Only camera and sensors are mentioned. We request you to add GPS devices and modify statement as "** Centralised monitoring of IoT devices (Cameras, Sensors, GPS devices or any other IOT device)) across City / State". kindly make the addition.	See Prebid Addendum 1
76	1	4	6	30	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector with minimum INR 10 Crores in the last 5 years <input type="checkbox"/> Centralised monitoring of IoT devices (Cameras, Sensors) across City / State <input type="checkbox"/> Surveillance Camera Solution <input type="checkbox"/> Cloud based Solution <input type="checkbox"/> E-Governance Solution	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector with minimum INR 10 Crores in the last 5 years <input type="checkbox"/> Centralised monitoring of IoT devices (Cameras, Sensors) across City / State <input type="checkbox"/> Surveillance Camera Solution <input type="checkbox"/> Cloud based Solution <input type="checkbox"/> E-Governance Solution <input type="checkbox"/> ITMS(intelligent transport management system)	Tender Clause remains unchanged See Prebid Addendum 1
77	1	4	6	30	The Bidder(Sole/Lead Bidder/Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector with minimum INR 10 Crores in the last 5 years • Centralised monitoring of IoT devices (Cameras, Sensors) across City/State • Surveillance Camera Solution • Cloud based Solution • E-Governance Solution	Request to amend the clause as : The Bidder(Sole/Lead Bidder/Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector with minimum INR 10 Crores in the last 7 years • Centralised monitoring of IoT devices (Cameras, Sensors) across City/State • Surveillance Camera Solution • Cloud based Solution • E-Governance Solution	See Prebid Addendum 1
78	1	4	6	30	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector with minimum INR 10 Crores in the last 5 years Document Proof * Work Order / Copy of Contract for the project highlighting the scope of work undertaken * Client Certificate for Completion / Go-Live Certificate	We request you to kindly modify the clause as The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector with minimum INR 80 Crores in (including Taxes) the last 5 years. Document Proof * Work Order / Copy of Contract for the project highlighting the scope of work undertaken or * Client Certificate for Completion / Go-Live Certificate	Tender Clause remains unchanged See Prebid Addendum 1
79	1	4	6	30	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector with minimum INR 10 Crores in the last 5 years <input type="checkbox"/> Centralised monitoring of IoT devices (Cameras, Sensors) across City / State <input type="checkbox"/> Surveillance Camera Solution <input type="checkbox"/> Cloud based Solution <input type="checkbox"/> E-Governance Solution	As this project would be coming for Transport Buses. Request you add the experience of implementing Transportation solution too. Request you to amend the clause as The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector with minimum INR 10 Crores in the last 7 years <input type="checkbox"/> Centralised monitoring of IoT devices (Cameras, Sensors) across City / State <input type="checkbox"/> Surveillance Camera Solution <input type="checkbox"/> Cloud based Solution <input type="checkbox"/> E-Governance Solution <input type="checkbox"/> Smart Transportation solution	Tender Clause remains unchanged See Prebid Addendum 1

80	1	4	6	30	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector with minimum INR 10 Crores in the last 5 years	Kindly Modify as " The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Project Experience in implementing at least one ICT/Security solution for any City/State/large industrial organization with any of the following components for any Government / Public Sector/Public Limited company with minimum INR 10 Crores in the last 5 years"	Tender Clause remains unchanged See Prebid Addendum 1
81	1	4	6	30	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector with minimum INR 10 Crores in the last 5 years <input type="checkbox"/> Centralised monitoring of IoT devices (Cameras, Sensors) across City / State <input type="checkbox"/> Surveillance Camera Solution <input type="checkbox"/> Cloud based Solution <input type="checkbox"/> E-Governance Solution	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Project Experience in implementing/supplying components as OEM to at least one or more ICT solution for any City/State with any of the following components for any Government / Public Sector with cumulative minimum INR 10 Crores in the last 5 years <input type="checkbox"/> Centralised monitoring of IoT devices (Cameras, Sensors) across City / State <input type="checkbox"/> Surveillance Camera Solution <input type="checkbox"/> Cloud based Solution <input type="checkbox"/> E-Governance Solution	Tender Clause remains unchanged See Prebid Addendum 1
82	1	4	6	30	Centralised monitoring of IoT devices (Cameras, Sensors) across City / State	• Centralised monitoring of IoT Solutions (Cameras, GPS, Cellular , monitor / Sensors,) across City / State	See Prebid Addendum 1
83	1	4	6	30	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector with minimum INR 10 Crores in the last 5 years	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector with minimum INR 10 Crores in the last 5 years as on date	See Prebid Addendum 1
84	1	4	6	30	Centralised monitoring of IoT devices (Cameras, Sensors) across City / State	Centralised monitoring of IoT Solutions (Cameras, GPS, Sensors,) across City / State	See Prebid Addendum 1
85	1	4	7	30	The Bidder (Sole / Lead Bidder / Consortium Partners) should possess any 3 of the below Certifications (valid on the date of bid submission) <input type="checkbox"/> ISO 9001:2008 or above – for Quality Process <input type="checkbox"/> ISO 20000:2011 or above for IT Service Management <input type="checkbox"/> ISO 27001:2005 or above for Information Security Management System <input type="checkbox"/> ISO 25010:2011 for Systems and Software Quality Requirements and Evaluation (SQuaRE) <input type="checkbox"/> CMMI III or above – for IT maturity Copies of valid certificates in the name of the sole bidder or the Lead bidder in case of a Consortium	The Bidder (Sole / Lead Bidder in case of Consortium Partners) should possess any 4 of the below Certifications (valid on the date of bid submission) <input type="checkbox"/> ISO 9001:2008 or above – for Quality Process <input type="checkbox"/> ISO 20000:2011 or above for IT Service Management <input type="checkbox"/> ISO 27001:2005 or above for Information Security Management System <input type="checkbox"/> ISO 25010:2011 for Systems and Software Quality Requirements and Evaluation (SQuaRE) <input type="checkbox"/> CMMI III or above – for IT maturity We request the department to kindly consider the above request	Agreed. See Prebid Addendum 1
86	1	4	7	30	Eligibility Criteria: The Bidder (Sole / Lead Bidder / Consortium Partners) should possess any 3 of the below Certifications (valid on the date of bid submission) Document Proof :Copies of valid certificates in the name of the sole bidder or the Lead bidder in case of a Consortium	The criteria says that, the certifications of Lead Bidder /Consortium Partners can be used to met the criteria. Whereas the documentary proof has mentioned about lead bidder's certificates only. Kindly modify the clause as: Document Proof : Copies of valid certificates in the name of the sole bidder or the Lead bidder/Consortium partners in case of a Consortium.	See Prebid Addendum 1

87	1	4	7	30	The Bidder (Sole / Lead Bidder / Consortium Partners) should possess any 3 of the below Certifications (valid on the date of bid submission) <input type="checkbox"/> ISO 9001:2008 or above – for Quality Process <input type="checkbox"/> ISO 20000:2011 or above for IT Service Management <input type="checkbox"/> ISO 27001:2005 or above for Information Security Management System <input type="checkbox"/> ISO 25010:2011 for Systems and Software Quality Requirements and Evaluation (SQuaRE) <input type="checkbox"/> CMMI III or above – for IT maturity	We request to change the point as "The Bidder (Sole / Lead Bidder / Consortium Partners) should possess any 2 of the below ISO Certifications (valid on the date of bid submission) <input type="checkbox"/> ISO 9001:2008 or above – for Quality Process <input type="checkbox"/> ISO 20000:2011 or above for IT Service Management <input type="checkbox"/> ISO 27001:2005 or above for Information Security Management System <input type="checkbox"/> ISO 25010:2011 for Systems and Software Quality Requirements and Evaluation (SQuaRE) And Sole bidder/Lead bidder should have CMMI Level V for IT maturity	See Prebid Addendum 1						
88	1	5.2.1	1	32	Avg. Annual Turnover for last 3 audited Fys In case of consortium, the Turn Over of all the partners will be taken together	Avg. Annual Turnover for last 3 audited Fys In case of consortium, the Turn Over of all the partners will be taken together. (2019-20 provisional accepted)	Yes						
89	1	5.2.1	1	32	Avg. Annual Turnover for last 3 audited Fys In case of consortium, the Turn Over of all the partners will be taken together Turnover (in INR) Marks > 65 Cr. 4 > 30 Cr. and <65 Cr. 2	Avg. Annual Turnover for last 3 audited Fys In case of consortium, the Turn Over of all the partners will be taken together Turnover (in INR) Marks > 200 Cr. 4 > 150 Cr. and <200 Cr. 2	Tender Clause remains unchanged See Prebid Addendum 1						
90	1	5.2.1	1	32	Avg. Annual Turnover for last 3 audited Fys In case of consortium, the Turn Over of all the partners will be taken together > 65 Cr. -> 4 marks > 30 Cr. and <65 Cr. -> 2 marks	In order to ensure participation of bidders with capability and expertise of handling a prestigious project of this nature, we request that the clause be modified as: Avg. Annual Turnover for last 3 audited Fys In case of consortium, the Turn Over of all the partners will be taken together > 300 Cr. -> 4 marks > 200 Cr. and < 300 Cr. -> 2 marks	Tender Clause remains unchanged See Prebid Addendum 1						
91	1	5.2.1	1	32	Avg. Annual Turnover for last 3 audited Fys In case of consortium, the Turn Over of all the partners will be taken together <table border="1" data-bbox="632 854 871 927"> <thead> <tr> <th>Turnover (in INR)</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>> 65 Cr.</td> <td>4</td> </tr> <tr> <td>> 30 Cr. and <65 Cr.</td> <td>2</td> </tr> </tbody> </table>	Turnover (in INR)	Marks	> 65 Cr.	4	> 30 Cr. and <65 Cr.	2	We understand that in order to execute the project of such value, intending Bidder should be financially strong as such turnkey projects require initial investments. Hence we request you kindly to amend the clause as below:- Avg. Annual Turnover for last 3 audited Fys In case of consortium, the Turn Over of all the partners will be taken together >100 Cr = 4 Marks >70 Cr and <100 Cr = 2 Marks	Tender Clause remains unchanged See Prebid Addendum 1
Turnover (in INR)	Marks												
> 65 Cr.	4												
> 30 Cr. and <65 Cr.	2												
92	1	5.2.1	2	32	Avg. Annual Turnover from related ICT based projects to any City/State/Central Government/PSU for the last 3 audited Fys In case of consortium, the Turn Over of all the partners will be taken together Firm's Average Net-worth for the last 3 Audited FY In case of consortium, the Net worth of all the partners will be taken together	Avg. Annual Turnover from related ICT based projects to any City/State/Central Government/PSU/Public Sector/Private Sector for the last 3 audited Fys In case of consortium, the Turn Over of all the partners will be taken together Firm's Average Net-worth for the last 3 Audited FY In case of consortium, the Net worth of all the partners will be taken together	Tender Clause remains unchanged See Prebid Addendum 1						
93	1	5.2.1	2	32	Avg. Annual Turnover from related ICT based projects to any City /State /Central Government/PSU for the last 3 audited Fys	We request to change the point as "Avg. Annual Turnover from related ICT based projects to any City /State /Central Government/PSU/Private for the last 3 audited Fys"	Tender Clause remains unchanged See Prebid Addendum 1						
94	1	5.2.1	2	32	Avg. Annual Turnover from related ICT based projects to any City/State/Central Government/PSU for the last 3 audited Fys	Avg. Annual Turnover from related ICT based projects to any City/State/Central Government/PSU for the last 3 audited Fys (2019-20 provisional accepted)	Yes						

95	1	5.2.1	2	32	<p>Avg. Annual Turnover from related ICT based projects to any City/State/Central Government/PSU for the last 3 audited FYs</p> <p>In case of consortium, the Turn Over of all the partners will be taken together</p> <p>> 45 Cr. -> 4 marks</p> <p>> 30 Cr. and < 45 Cr. -> 2 marks</p>	<p>In order to ensure participation of bidders with capability and expertise of handling a prestigious project of this nature, we request that the clause be modified as:</p> <p>Avg. Annual Turnover from related ICT based projects to any City/State/Central Government/PSU for the last 3 audited FYs</p> <p>In case of consortium, the Turn Over of all the partners will be taken together</p> <p>> 250 Cr. -> 4 marks</p> <p>> 200 Cr. and < 250 Cr. -> 2 marks</p>	<p>Tender Clause remains unchanged</p> <p>See Prebid Addendum 1</p>
96	1	5.2.1	2	32	<p>2. Avg. Annual Turnover from related ICT based projects to any City/State/Central Government/PSU for the last 3 audited FYs</p> <p>In case of consortium, the Turn Over of all the partners will be taken together</p>	<p>Kindly Modify as</p> <p>2. Avg. Annual Turnover from related ICT/Security based projects to any City/State/Central Government/PSU/Public limited company for the last 3 audited FYs</p> <p>In case of consortium, the Turn Over of all the partners will be taken together</p>	<p>Tender Clause remains unchanged</p> <p>See Prebid Addendum 1</p>
97	1	5.2.1	3	33	<p>Firm's Average Net-worth for the last 3 Audited FY</p> <p>In case of consortium, the Net worth of all the partners will be taken together</p> <p>Networth (in INR) Marks</p> <p>> 20 Cr. 3</p> <p>>= 10 Cr. and < 20 Cr. 2</p> <p>> 1 Cr. and < 10 Cr. 1</p>	<p>Firm's Average Net-worth for the last 3 Audited FY</p> <p>In case of consortium, the Net worth of all the partners will be taken together</p> <p>Networth (in INR) Marks</p> <p>> 100 Cr. 3</p> <p>>= 80 Cr. and < 100 Cr. 2</p> <p>> 40 Cr. and < 80 Cr. 1</p>	<p>Tender Clause remains unchanged</p> <p>See Prebid Addendum 1</p>
98	1	5.2.1	3	33	<p>Firm's Average Net-worth for the last 3 Audited FY</p> <p>In case of consortium, the Net worth of all the partners will be taken together</p> <p>> 20 Cr. -> 3 marks</p> <p>>= 10 Cr. and < 20 Cr. -> 2 marks</p> <p>> 1 Cr. and < 10 Cr. -> 1 mark</p>	<p>In order to ensure participation of bidders with capability and expertise of handling a prestigious project of this nature, we request that the clause be modified as:</p> <p>Firm's Average Net-worth for the last 3 Audited FY</p> <p>In case of consortium, the Net worth of all the partners will be taken together</p> <p>> 200 Cr. -> 3 marks</p> <p>>= 150 Cr. and < 200 Cr. -> 2 marks</p> <p>> 100 Cr. and < 150 Cr. -> 1 mark</p>	<p>Tender Clause remains unchanged</p> <p>See Prebid Addendum 1</p>
99	1	5.2.1	4	33	<p>Professionally Qualified Full Time Employees in ICT related fields. In case of consortium, the number of professionally qualified full time employees of all the partners will be taken together</p> <p><input type="checkbox"/> 50-75 employees – 1 marks</p> <p><input type="checkbox"/> 76-100 employees – 2 marks</p> <p><input type="checkbox"/> >100 employees – 3 marks</p>	<p>In order to ensure participation of bidders with capability and expertise of handling a prestigious project of this nature, we request that the clause be modified as:</p> <p>Professionally Qualified Full Time Employees in ICT related fields. In case of consortium, the number of professionally qualified full time employees of all the partners will be taken together</p> <p><input type="checkbox"/> 500-600 employees – 1 marks</p> <p><input type="checkbox"/> 600-750 employees – 2 marks</p> <p><input type="checkbox"/> >750 employees – 3 marks</p>	<p>Tender Clause remains unchanged</p> <p>See Prebid Addendum 1</p>
100	1	5.2.1	5	33	<p>Technical Evaluation Criteria: Valid CMMI certification</p> <p>Technical Evaluation parameter</p> <ul style="list-style-type: none"> • CMMi III : 2 marks • CMMi V : 4 marks 	<p>Kindly evaluate the criteria based on the overall certifications asked in the eligibility criteria (ISO and CMMi certifications). Please amend the marking criteria as below:</p> <p>Technical Evaluation Criteria: Valid CMMI and ISO certification</p> <ul style="list-style-type: none"> • CMMi III or above • ISO 9001:2008 or above • ISO 20000:2011 or above • ISO 27001:2005 or above • ISO 25010:2011 <p>Technical Evaluation parameter</p> <ul style="list-style-type: none"> • CMMi III or above : 2 Marks • CMMi III or above + any 3 of the above ISO certifications 	<p>Tender Clause remains unchanged</p> <p>See Prebid Addendum 1</p>
101	1	5.2.1	5	33	<p>Valid CMMI certification</p>	<p>Since it is a system integration project not a software development project so it is requested ,marks should be eliminate and added to other PQ</p>	<p>Tender Clause remains unchanged</p> <p>See Prebid Addendum 1</p>

102	1	5.2.1	5	33	Valid CMMI certification <input type="checkbox"/> CMMi III : 2 marks <input type="checkbox"/> CMMi V : 4 marks	Since ISO 20000 is IT System Integration certificate and already CMMi level 3 is requested to prove the Software Development certificate, we request to consider the criteria as, " Valid ISO and CMMi Certifications specified in Qualification Criteria" <input type="checkbox"/> ISO 9001:2008 or above – for Quality Process <input type="checkbox"/> ISO 20000:2011 or above for IT Service Management <input type="checkbox"/> ISO 27001:2005 or above for Information Security Management System <input type="checkbox"/> CMMi III or above – for IT maturity	Tender Clause remains unchanged See Prebid Addendum 1
103	1	5.2.1	5	33	Valid CMMI certification CMMi III : 2 marks CMMi V : 4 marks	We request to change the point as "Valid CMMI certification CMMi V : 4 marks"	Tender Clause remains unchanged See Prebid Addendum 1
104	1	5.2.1	6	33	Technical Evaluation Criteria: MSME Certificate Technical Evaluation parameter: Bidder / Consortium is MSME	We hope any consortium partner needs to be MSME for meeting this requirement. Please confirm.	Either Lead Bidder or any 1 of the Consortium Partner must be MSME to gain this 2 Marks
105	1	5.2.1	6	33	MSME Certificate - Mark 2	Request you to remove these clause	Tender Clause remains unchanged See Prebid Addendum 1
106	1	5.2.1	6	33	MSME Certificate <input type="checkbox"/> Bidder / Consortium is MSME	This clause is prohibitive, since it mandatorily ensures presence of an MSME in Consortium. Since the sub-contracting clause already defines the activities where an MSME can be involved, we request that MSME certificate be mandated as an OEM Eligibility Criteria and deleted from Technical Evaluation of Bidder	Either Lead Bidder or any 1 of the Consortium Partner must be MSME to gain this 2 Marks
107	1	5.2.2	7	33	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector in the last 5 years	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector in the last 5 years <u>as on 31st March,2020</u>	See Prebid Addendum 1
108	1	5.2.2	7	33	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector in the last 5 years • Centralised monitoring of IoT devices (Cameras, Sensors) across City / State • Surveillance Camera Solution • Cloud based Solution • E-Governance Solution	Request to amend the clause as : The Bidder(Sole/Lead Bidder/Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector with minimum INR 10 Crores in the last 7 years • Centralised monitoring of IoT devices (Cameras, Sensors) across City/State • Surveillance Camera Solution • Cloud based Solution • E-Governance Solution	Tender Clause remains unchanged See Prebid Addendum 1
109	1	5.2.2	7	33	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector in the last 5 years Centralised monitoring of IoT devices (Cameras, Sensors) across City / State Surveillance Camera Solution Cloud based Solution E-Governance Solution	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector in the last 10 years Centralised monitoring of IoT devices (Cameras, Sensors) across City / State Surveillance Camera Solution Cloud based Solution E-Governance Solution Data Center Project (Server, Storage and Network Implementation)	Tender Clause remains unchanged See Prebid Addendum 1

110	1	5.2.2	7	33	<p>The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector in the last 5 years</p> <p>>15 Crores : 8 Marks > 10 Cr. and <15 Cr. : 4 Marks</p> <p>Evaluation based on number of Projects (greater than INR 10 Crores)</p>	<p>We request to change the point as "The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector in the last 10 years</p> <p>>10 Crores : 8 Marks > 5 Cr. and <10 Cr. : 4 Marks</p> <p>Evaluation based on number of Projects (greater than INR 5 Crores)</p>	<p>Tender Clause remains unchanged See Prebid Addendum 1</p>
111	1	5.2.2	7	33	<p>The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector in the last 5 years.</p>	<p>Requesting MTC to kindly allow project experience in last 7 years.</p>	<p>Tender Clause remains unchanged See Prebid Addendum 1</p>
112	1	5.2.2	7	33	<p><u>Criteria:</u> The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector in the last 5 years</p> <p><u>Parameter:</u> Single Project Value > 15 Cr -- 8 marks Single Project Value > 10 & < 15 Cr -- 4 marks</p> <p>Evaluation based on number of Projects (greater than INR 10 Crores) 5 Marks for every completed Project in Tamil Nadu, 4 Marks for every Completed Project in Rest of India, 3 Marks for every other Completed Project in the World, 2 Marks for every Ongoing Project in Tamil Nadu and 1 Mark for every other Ongoing Project capped at 8 Marks</p>	<p>We are unable to understand the marking here. Is it that the location criteria marks are subset of the total project marks or otherwise?</p> <p>For eg. One project of more than 15 Cr in TN will get 8 + 5 marks OR one project of more than 15 Cr in TN will get 8 marks out of which 5 marks are for TN location and 3 marks are for project value.</p> <p>Or For eg. One project of value between 10 & 15 Cr in TN will get 4 marks max OR one project of value between 10 & 15 Cr in TN will get 4 marks + 5 marks.</p> <p>Similarly, if we show two projects of value greater than 15 Cr with TN location then we get 16 marks? please confirm.</p> <p>We request you to rephrase this clause such that 8 marks for each project is max out of which 5 marks for location and 3 marks for project value.</p>	<p>Clause is self-explanatory</p>
113	1	5.2.2	7	33	<p>Evaluation based on project value for Single Order / Contract</p> <p>Single Project Marks Value (in INR) > 15 Cr. - 8 Marks > 10 Cr. and <15 Cr. - 4 Marks</p> <p>Evaluation based on number of Projects (greater than INR 10 Crores) 5 Marks for every completed Project in Tamil Nadu, 4 Marks for every Completed Project in Rest of India, 3 Marks for every other Completed Project in the World, 2 Marks for every Ongoing Project in Tamil Nadu and 1 Mark for every other Ongoing Project capped at 8 Marks</p> <p>Note: 1 Project Must have End Client Certificate for Completion / Go-Live Certificate</p>	<p>It seems to be contradictory in Past Project Experience evaluation criteria clauses 7 and 8. Hence request you to kindly change the clause as under, Evaluation based on project value for Single Order / Contract Single Project Value (in INR) including taxes > 100 Cr. - 16 Marks > 90 Cr. and <100 Cr. - 12 Marks > 85 Cr. and <90 Cr. - 8 Marks > 80 Cr. and <85 Cr. - 4 Marks</p> <p>And request you to kindly remove marks allocated for additional projects as this clause is for bidder capability in single project experience</p> <p>Note: 1 Project Must have Work order/ End Client Certificate for Completion / Go-Live Certificate</p>	<p>Tender Clause remains unchanged See Prebid Addendum 1</p>

114	1	5.2.2	7	33	The Bidder(Sole/Lead Bidder/Consortium Partners)should have prior project Experience in implementing at least one ICT Solution for any city/state with any of the following components for any Government/Public sector in the last 5 years > Centralised monitoring of IoT devices(Cameras, Sensors) across City/state >Surveillance Camera Solution >Cloud based Solution >E-Governance Solution	Kindly consider: SATRA is completed data capture of High ways in using Cameras,Sersors across the Tamil Nadu sate work order	Your understanding is Correct See Prebid Addendum 1						
115	1	5.2.2	7	33	The Bidder (Sole / Lead Bidder /Consortium Partners) should have Prior Experience implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector in the last 5 years Centralised monitoring of IoT devices (Cameras, Sensors) across City / State ,Surveillance Camera Solution,Cloud based Solution,E-Governance Solution	It is understood experience in E-Governance project like any project which include citizen services ,like Adhaar / PDS will be complied	Your understanding is Correct See Prebid Addendum 1						
116	1	5.2.2	7	33	Evaluation based on project value for Single Order / Contract Single Project Marks Value (in INR) Marks > 15 Cr. 8 > 10 Cr. and <15 Cr 4 Evaluation based on number of Projects (greater than INR 10 Crores) 5 Marks for every completed Project in Tamil Nadu, 4 Marks for every Completed Project in Rest of India, 3 Marks for every other Completed Project in the World, 2 Marks for every Ongoing Project in Tamil Nadu and 1 Mark for every other Ongoing Project capped at 8 Marks	Evaluation based on project value for Single Order / Contract Single Project Marks Value (in INR) Marks > 15 Cr 8 > 10 Cr. and <15 Cr 4	What is your Query? See Addendum 1						
117	1	5.2.2	7	33	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector in the last 5 years	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector in the last 5 years as on date	See Prebid Addendum 1						
118	1	5.2.2	7	33	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector in the last 5 years • Centralised monitoring of IoT devices (Cameras, Sensors) across City / State • Surveillance Camera Solution • Cloud based Solution • E-Governance Solution Evaluation based on project value for Single Order / Contract <table border="1" data-bbox="693 1209 934 1307"> <thead> <tr> <th>Single Project Value (in INR)</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>> 15 Cr.</td> <td>8</td> </tr> <tr> <td>> 10 Cr. and <15 Cr.</td> <td>4</td> </tr> </tbody> </table>	Single Project Value (in INR)	Marks	> 15 Cr.	8	> 10 Cr. and <15 Cr.	4	As this project would be coming for Transport Buses. Request you add the expeirnce of implementing Transportation solution too. Request you to amend the clause as The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector with minimum INR 10 Crores in the last 7 years <input type="checkbox"/> Centralised monitoring of IoT devices (Cameras, Sensors) across City / State <input type="checkbox"/> Surveillance Camera Solution <input type="checkbox"/> Cloud based Solution <input type="checkbox"/> E-Governance Solution <input type="checkbox"/> Smart Transportation solution Evaluation based on project value for Single Order / Contract >50 Cr = 8 Marks >30 Cr and <50 Cr = 4 Marks	Tender Clause remains unchanged See Prebid Addendum 1
Single Project Value (in INR)	Marks												
> 15 Cr.	8												
> 10 Cr. and <15 Cr.	4												

119	1	5.2.2	7	33	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector in the last 5 years <input type="checkbox"/> Centralised monitoring of IoT devices (Cameras, Sensors) across City / State <input type="checkbox"/> Surveillance Camera Solution <input type="checkbox"/> Cloud based Solution <input type="checkbox"/> E-Governance Solution	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector in the last 5 years <input type="checkbox"/> Centralised monitoring of IoT devices (Cameras, Sensors) across City / State <input type="checkbox"/> Surveillance Camera Solution <input type="checkbox"/> Cloud based Solution <input type="checkbox"/> E-Governance Solution <input type="checkbox"/> ITMS(intelligent transport management system)	Tender Clause remains unchanged See Prebid Addendum 1
120	1	5.2.2	7	34	Evaluation based on number of Projects (greater than INR 10 Crores) 5 Marks for every completed Project in Tamil Nadu, 4 Marks for every Completed Project in Rest of India, 3 Marks for every other Completed Project in the World, 2 Marks for every Ongoing Project in Tamil Nadu and 1 Mark for every other Ongoing Project capped at 8 Marks	5 marks for every completed project in any state of India	Tender Clause remains unchanged See Prebid Addendum 1
121	1	5.2.2	7	34	Centralised monitoring of IoT devices (Cameras, Sensors) across City / State	• Centralised monitoring of IoT Solutions (Cameras, GPS, Cellular , monitor / Sensors,) across City / State	See Prebid Addendum 1
122	1	5.2.2	7	34	Centralised monitoring of IoT devices (Cameras, Sensors) across City / State	Centralised monitoring of IoT Solutions (Cameras, GPS, Sensors,) across City / State	See Prebid Addendum 1
123	1	5.2.2	7,8	34	Evaluation -value for Single Order / Contract Single Project Value (in INR) - > 15 Cr Marks 8 Single Project Value (in INR) - > 10 Cr and < 15 Cr Marks 4 Evaluation based on number of Projects (greater than INR 10 Crores) 5 Marks for every completed Project in Tamil Nadu, 4 Marks for every Completed Project in Rest of India, 3 Marks for every other Completed Project in the World, 2 Marks for every Ongoing Project in Tamil Nadu and 1 Mark for every other Ongoing Project capped at 8 Marks	Sir, here if the project value is > 15 Cr, then 8 marks per ICT project will be allotted and if the project is between 10 to 15 Cr - then 4 marks per project will be allotted. Maximum marks for 5.2.2 is 16 and this is well understood . However, the following text is slightly contracting the above scheme Evaluation based on number of Projects (greater than INR 10 Crores) 5 Marks for every completed Project in Tamil Nadu, 4 Marks for every Completed Project in Rest of India, 3 Marks for every other Completed Project in the World, 2 Marks for every Ongoing Project in Tamil Nadu and 1 Mark for every other Ongoing Project capped at 8 Marks We feel that this clause is applicable for Tech Marking criteria 5.2.2 (7) and not for 5.2.2 (8). Request you to remove above portion from criteria 5.2.2 as this is applicable for project of value >10cr at 5.2.3.	Tender Clause remains unchanged See Prebid Addendum 1
124	1	5.2.2	8	34	Evaluation based on number of Projects (greater than INR 10 Crores) 5 Marks for every completed Project in Tamil Nadu, 4 Marks for every Completed Project in Rest of India, 3 Marks for every other Completed Project in the World, 2 Marks for every Ongoing Project in Tamil Nadu and 1 Mark for every other Ongoing Project capped at 8 Marks	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience in Video Conferencing project with minimum 50 nodes for any Government / Public Sector	Tender Clause remains unchanged See Prebid Addendum 1
125	1	5.2.2	8	34	Evaluation based on number of Projects (greater than INR 10 Crores) 5 Marks for every completed Project in Tamil Nadu, 4 Marks for every Completed Project in Rest of India, 3 Marks for every other Completed Project in the World, 2 Marks for every Ongoing Project in Tamil Nadu and 1 Mark for every other Ongoing Project capped at 8 Marks	Evaluation based on number of Projects Work Order / Agreement with Customer need to be submitted. Single Project 4 Marks Two Projects 8 Marks	Tender Clause remains unchanged See Prebid Addendum 1

126	1	5.2.2	8	34	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience with large scale citizen-centric / citizen-safety solution with proactive monitoring & analysis of project value of greater than INR 10 crores for any Government / Public Sector in the last 5 years	Request to amend the clause as : The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience with large scale citizen-centric / citizen-safety solution with proactive monitoring & analysis of project value of greater than INR 10 crores for any Government / Public Sector in the last 7 years	Tender Clause remains unchanged See Prebid Addendum 1
127	1	5.2.2	8	34	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience with large scale citizen-centric / citizen-safety solution with proactive monitoring & analysis of project value of greater than INR 10 crores for any Government / Public Sector in the last 5 years	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience with large scale citizen-centric / citizen-safety solution with proactive monitoring & analysis of project value of greater than INR 10 crores for any Government / Public Sector in the last 10 years	Tender Clause remains unchanged See Prebid Addendum 1
128	1	5.2.2	8	34	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience with large scale citizen-centric / citizen-safety solution with proactive monitoring & analysis of project value of greater than INR 10 crores for any Government / Public Sector in the last 5 years Evaluation based on number of Projects (greater than INR 10 Crores) 5 Marks for every completed Project in Tamil Nadu, 4 Marks for every Completed Project in Rest of India, 3 Marks for every other Completed Project in the World, 2 Marks for every Ongoing Project in Tamil Nadu and 1 Mark for every other Ongoing Project capped at 8 Marks	Projects implemented in India also follows the tender process and the same process or technology is followed all over India and so we kindly request you relax the criteria as, "The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience with large scale citizen-centric / citizen-safety solution of project value of greater than INR 10 crores for any Government / Public Sector in the last 7 years" 1 Project - 5 marks, 2 Projects - 6 marks, 3 Projects - 8 marks (Any one project out of three project should be implemented in Tamil Nadu). Incuse of Ongoing project, 0.5 mark will be awarded	Tender Clause remains unchanged See Prebid Addendum 1
129	1	5.2.2	8	34	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience with large scale citizen-centric / citizen-safety solution with proactive monitoring & analysis of project value of greater than INR 10 crores for any Government / Public Sector in the last 5 years	We request to change the point as "The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience with large scale citizen-centric / citizen-safety solution with proactive monitoring & analysis of project value of greater than INR 10 crores for any Government / Public Sector in the last 10 years"	Tender Clause remains unchanged See Prebid Addendum 1
130	1	5.2.2	8	34	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience with large scale citizen-centric / citizen-safety solution with proactive monitoring & analysis of project value of greater than INR 10 crores for any Government / Public Sector in the last 5 years	Requesting MTC to kindly allow project experience in last 7 years.	Tender Clause remains unchanged See Prebid Addendum 1
131	1	5.2.2	8	34	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience with large scale citizen-centric / citizen-safety solution with proactive monitoring & analysis of project value of greater than INR 10 crores for any Government / Public Sector in the last 5 years	As above, please explain the marking on this one also	Clause is self-explanatory
132	1	5.2.2	8	34	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience with large scale citizen-centric / citizen-safety solution with proactive monitoring & analysis of project value of greater than INR 10 crores for any Government / Public Sector in the last 5 years Evaluation based on number of Projects (greater than INR 10 Crores)	It seems to be contradictory in Past Project Experience evaluation criteria clauses 7 and 8. Hence request you to kindly change the clause as under, The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience with large scale citizen-centric / citizen-safety solution with proactive monitoring & analysis of project value of greater than INR 4 crores for any Government / Public Sector in the last 5 years Evaluation based on number of Projects (greater than INR 4 Crores)	Tender Clause remains unchanged See Prebid Addendum 1

133	1	5.2.2	8	34	The Bidder (Sole/Lead Bidder/Consortium Partner) should have prior experience with large scale citizen-centric/ citizen-safety solution with proactive monitoring and analysis of project value of greater than INR 10 Crores of any Government/Public Sector in India	Requesting to Kindly have the needful changed to the following: The Bidder (Sole/Lead Bidder/Consortium Partner) should have prior experience with large scale citizen-centric solution with proactive monitoring and analysis for a single client with a value of greater than INR 10 Crores of any Government/Public Sector in India-Evaluation- >10 Cr -4 mark and <10 Cr 1 mark	Tender Clause remains unchanged See Prebid Addendum 1
134	1	5.2.2	8	34	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience with large scale citizen-centric / citizen-safety solution with proactive monitoring & analysis of project value of greater than INR 10 crores for any Government / Public Sector in the last 5 years	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience with large scale citizen-centric / citizen-safety solution with proactive monitoring & analysis of project value of greater than INR 10 crores for any Government / Public Sector in the last 5 years as on date	See Prebid Addendum 1
135	1	5.2.2	8	34	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience with large scale citizen-centric / citizen-safety solution with proactive monitoring & analysis of project value of greater than INR 10 crores for any Government / Public Sector in the last 5 years	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience with large scale citizen-centric / citizen-safety solution with proactive monitoring & analysis of project value of greater than INR 10 crores for any Government / Public Sector	See Prebid Addendum 1
136	1	5.2.2	8	34	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience with large scale citizen-centric / citizen-safety solution with proactive monitoring & analysis of project value of greater than INR 10 crores for any Government / Public Sector in the last 5 years	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience with large scale citizen-centric / citizen-safety solution with proactive monitoring & analysis of project value of greater than INR 10 crores for any Government / Public Sector in the last 5 years as on 31st March 2020	See Prebid Addendum 1
137	1	5.2.2	8	34	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience with large scale citizen-centric / citizen-safety solution with proactive monitoring & analysis of project value of greater than INR 10 crores for any Government / Public Sector in the last 5 years	Kindly consider indirect type of projects for Citizen safety solutions. Example: GPS Tracking of govt goods vehicle (due to this kind of project end user of citizen will be going to get benefit)	See Prebid Addendum 1
138	1	5.2.2	8	34	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience with large scale citizen-centric / citizen-safety solution with proactive monitoring & analysis of project value of greater than INR 10 crores for any Government / Public Sector in the last 5 years	Request you to amend the clause as The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience with large scale citizen-centric / citizen-safety solution/ Transportation solution with proactive monitoring & analysis of project value of greater than INR 50 crores for any Government / Public Sector in the last 7 years	Tender Clause remains unchanged See Prebid Addendum 1
139	1	5.2.2	9	34	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience in Mobile Surveillance Projects which includes centralized viewing (CCC) over 4G/3G for any Government / Public Sector in the last 5 years	Please explain Mobile surveillance. Does it mean surveillance inside vehicles? If yes, please note that surveillance in STU buses is still taking off. Delhi started last year. Bangalore is starting this year. Other than that work is mostly in Railways. We request you to remove the criteria of mobile surveillance. Our company has done several projects in the space of Vehicle Telematics, electronic ticketing, smart payments on buses. We suggest suitable modification to allow us to participate	Tender clause remains unchanged. We are not limiting Project within India. Any Government Projects across the world will be considered See Prebid Addendum 1
140	1	5.2.2	9	34	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience in Mobile Surveillance Projects which includes centralized viewing (CCC) over 4G/3G for any Government / Public Sector in the last 5 years	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience in Surveillance Projects which includes centralized viewing (CCC) for any Government / Public Sector/Reputed Banks	Tender Clause remains unchanged See Prebid Addendum 1

141	1	5.2.2	9	34	Evaluation based on number of Projects 5 Marks for every completed Project in Tamil Nadu, 4 Marks for every Completed Project in Rest of India, 3 Marks for every other Completed Project in the World, 2 Marks for every Ongoing Project in Tamil Nadu and 1 Mark for every other Ongoing Project capped at 12 Marks	Evaluation based on number of Projects Work Order / Agreement with Customer need to be submitted. >= 3 projects 12 Marks >=2 < 3 Projects 8 Marks 1 Project 4 Marks	Tender Clause remains unchanged See Prebid Addendum 1
142	1	5.2.2	9	34	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience in Mobile Surveillance Projects which includes centralized viewing (CCC) over 4G/3G for any Government / Public Sector in the last 5 years	Request to amend the clause as : The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience in Mobile Surveillance Projects which includes centralized viewing (CCC) over 4G/3G/OFC for any Government / Public Sector in the last 7 years	Tender Clause remains unchanged See Prebid Addendum 1
143	1	5.2.2	9	34	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience in Mobile Surveillance Projects which includes centralized viewing (CCC) over 4G/3G for any Government / Public Sector in the last 5 years	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience in Mobile Surveillance Projects which includes centralized viewing (CCC) over 4G/3G for any Government / Public Sector in the last 5 years	See Prebid Addendum 1
144	1	5.2.2	9	34	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience in Mobile Surveillance Projects which includes centralized viewing (CCC) over 4G/3G for any Government / Public Sector in the last 5 years	The criteria (7) and (8) of Past Project Experience already asks for the bidder's experience in surveillance solutions. There is no criteria asking for experience in one of the core component of this project, which is GPS based vehicle tracking system. We request MTC to kindly amend this criteria as below and thereby evaluate the bidder's experience in vehicle tracking system also. The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience in Mobile Surveillance Projects which includes centralized viewing (CCC) over 4G/3G OR GPS based Vehicle Tracking System for any Government / Public Sector in the last 7 years.	Tender Clause remains unchanged See Prebid Addendum 1
145	1	5.2.2	9	34	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience in Mobile Surveillance Projects which includes centralized viewing (CCC) over 4G/3G for any Government / Public Sector in the last 5 years	Request you to kindly modify the clause as under, The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience (includes supply) in Mobile Surveillance Projects which includes centralized viewing (CCC) over 4G/3G for any Government / Public Sector in the last 5 years	Tender Clause remains unchanged See Prebid Addendum 1
146	1	5.2.2	9	34	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience in Mobile Surveillance Projects which includes centralized viewing (CCC) over 4G/3G for any Government / Public Sector in the last 5 years	Kindly Modify as "The Bidder (Sole / Lead Bidder / Consortium Partners/OEM) should have Prior Experience in Mobile Surveillance Projects which includes centralized viewing (CCC) over 4G/3G for any Government / Public Sector in the last 5 years"	Tender Clause remains unchanged See Prebid Addendum 1
147	1	5.2.2	9	34	The Bidder (Sole/Lead Bidder/Consortium Partner) should have prior project experience in Mobile Surveillance Projects which includes Centralized viewing (CCC) over 4G/3G for any Govt /Public Sector in the last 5 Years	Requesting to amend to remove the word 'Mobile Surveillance' and update clause accordingly.	Tender Clause remains unchanged See Prebid Addendum 1
148	1	5.2.2	9	34	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience in Mobile Surveillance Projects which includes centralized viewing (CCC) over 4G/3G for any Government / Public Sector in the last 5 years	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience in Mobile Surveillance Projects which includes centralized viewing (CCC) over 4G/3G for any Government / Public Sector in the last 5 years as on date	See Prebid Addendum 1
149	1	5.2.2	9	34	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience in Mobile Surveillance Projects which includes centralized viewing (CCC) over 4G/3G for any Government / Public Sector in the last 5 years	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience in Mobile Surveillance Projects which includes centralized viewing (CCC) over 4G/3G for any Government / Public Sector in the last 5 years as on bid submission date.	See Prebid Addendum 1

150	1	5.2.2	9	34	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience in Mobile Surveillance Projects which includes centralized viewing (CCC) over 4G/3G for any Government / Public Sector in the last 5 years	Request that the clause be modified as: The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience in Mobile Surveillance Projects which includes centralized viewing (CCC) over 4G/3G for any Government / Public Sector in the last 5 years	Tender Clause remains unchanged See Prebid Addendum 1
151	1	5.2.2	9	34	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience in Mobile Surveillance Projects which includes centralized viewing (CCC) over 4G/3G for any Government / Public Sector in the last 5 years	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience in Mobile Surveillance Projects which includes centralized viewing (CCC) over 4G/3G/ OFC for any Government / Public Sector in the last 7 years	Tender Clause remains unchanged See Prebid Addendum 1
152	1	5.2.2	9	34	The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience in Mobile Surveillance Projects which includes centralized viewing (CCC) over 4G/3G for any Government / Public Sector in the last 5 years Evaluation based on number of Projects 5 Marks for every completed Project in Tamil Nadu, 4 Marks for every Completed Project in Rest of India, 3 Marks for every other Completed Project in the World, 2 Marks for every Ongoing Project in Tamil Nadu and 1 Mark for every other Ongoing Project capped at 12 Marks	Since GPS and Panic buttons are also scope of the project and is related to Nirbaya tender and projects implemented in India also follows the tender process and the same process or technology is followed all over India and so we kindly request you relax the criteria as, "The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience in Mobile Surveillance Projects/ Panic Button/ Vehicle Tracking system which includes centralized viewing (CCC) over 4G/3G for any Government / Public Sector in the last 5 years" 1 Project - 5 marks, 2 Projects - 6 marks, 3 Projects - 8 marks. Incase of Ongoing project, 0.5 mark will be awarded	Tender Clause remains unchanged See Prebid Addendum 1
153	1	5.2.3	11	35	Architecture Soundness Will be evaluated based on the below criteria <input type="checkbox"/> Redundancy <input type="checkbox"/> High Availability <input type="checkbox"/> Interoperability/Integration capability <input type="checkbox"/> AI / Machine Learning based Solution <input type="checkbox"/> Programming of SOP <input type="checkbox"/> Dashboard Data Analytics <input type="checkbox"/> Scalability <input type="checkbox"/> Network Connectivity	What is the use case for AI / Machine Learning based solution?	It is Typo error. It is not part of the solution
154	1	5.2.3	11	35	AI / Machine Learning based Solution	We understand that Video Analytics is not in the current scope of the RFP. What is the exact requirement of the mentioned clause. Please clarify.	It is Typo error. It is not part of the solution now. But part of future scope
155	1	5.2.3	13	36	Project Team Capability Project Manager with experience of minimum 15 years	We request MTC to kindly relax the experience requirement for the Project Manager as minimum 10 years.	Tender clause remains unchanged
156	1	5.2.3	14	36	Live Prototype Demonstration Each of the following components of the solution demonstrated by the bidder will be evaluated: Mobile Surveillance – 15 Dashboard Integration – 10	What is the expected date of presentation of this Live prototype demonstration?	All Bidders who have qualified at Pre-Qualification stage will be intimated immediately to do the installation and may be given maximum 2 weeks to perform the POC from Bid Opening
157	1	5.2.3	14	36	Live Prototype Demonstration	As in section 5.2.2 MTC already evaluated Bidder performance and prior experience of projects we request to remove POC more over In this pandemic situation it is difficult to arrange POC	Tender clause remains unchanged
158	1	5.2.4		37	SI shall provide adequate number of personnel, each responsible for a specific role within the project. SI shall provide clear definition of the role and responsibility of each individual personnel.	Please provide the list of resources to quote for this requirement.	Bidder to propose the Resource (manpower) plan for Implementation Phase to be provided as per format provided in section 9.4.3.1. Bidder shall also propose manpower to be deployed during the O&M phase of the Project as per the format provided in section 9.4.3.2

159	1	5.2.4		37	Key personal	Please mention the number of people in each category and duration of engagement. Please mention the total number of person per shift and number of shifts.	Bidder to propose the Resource (manpower) plan for Implementation Phase to be provided as per format provided in section 9.4.3.1. Bidder shall also propose manpower to be deployed during the O&M phase of the Project as per the format provided in section 9.4.3.2
160	1	5.2.4	1	37	Project Manager a) Education: MBA/MCA/M. Tech & B. Tech/B.E. from a recognized educational institution b) Experience: Minimum 15 years in IT sector. Should have more than 10 years of experience of handling such large projects as a project manager c) Should preferably have PMP or Prince2 certification	Project Manager a) Education: MBA/MCA/M. Tech & B. Tech/B.E. from a recognized educational institution b) Experience: Minimum 12 years in IT sector. Should have more than 10 years of experience of handling such large projects as a project manager c) Should preferably have PMP or Prince2 certification	Tender clause remains unchanged
161	1	5.2.4	1	37	Position : Project Manager Minimum Qualifications & Experience: a) Education: MBA/MCA/M. Tech & B. Tech/B.E. from a recognized educational institution b) Experience: Minimum 15 years in IT sector. Should have more than 10 years of experience of handling such large projects as a project manager c) Should preferably have PMP or Prince2 certification	We request MTC to kindly relax the experience requirement for the Project Manager as minimum 10 years. b) Experience: Minimum 10 years in IT sector. Should have more than 8 years of experience of handling such large projects as a project manager	Tender clause remains unchanged
162	1	5.2.4	1	37	Project Manager a) Education: MBA/MCA/M.Tech & B.Tech/B.E. from a recognized educational institution	Request that the clause be modified as: Project Manager a) Education: MBA/MCA/M.Tech or equivalent & B. Tech/B.E. from a recognized educational institution	Agreed
163	1	5.2.4	1	37	Project Manager: a) Education: MBA/MCA/M. Tech & B. Tech/B.E. from a recognized educational institution b) Experience: Minimum 15 years in IT sector. Should have more than 10 years of experience of handling such large projects as a project manager c) Should preferably have PMP or Prince2 certification	Project Manager: a) Education: MBA/MCA/M. Tech & B. Tech/B.E. from a recognized educational institution b) Experience: Minimum 15 years in IT/Security & Surveillance sector. Should have more than 10 years of experience of handling such large projects as a project manager c) Should preferably have PMP or Prince2 certification	Agreed
164	1	5.2.4	2	37	Solution Architect: a) Education: MCA/M. Tech/B. Tech/B.E. from a recognized educational institution a) Experience: Minimum10 years in IT sector. Should have experience of more than 3 years as a Solution Architect in large projects of similar nature	Solution Architect: a) Education: MCA/M. Tech/B. Tech/B.E. from a recognized educational institution a) Experience: Minimum10 years in IT/Security & Surveillance sector. Should have experience of more than 3 years as a Solution Architect in large projects of similar nature	Agreed
165	1	5.2.4	8	38	Site Engineer a) Education: B.Tech / M.Tech/ Post Graduate b) Experience: Minimum 3 years. Should have experience in Control Center infrastructure maintenance /operations for at least 1 project of similar nature.	Site Engineer a) Education: Diploma / B.Tech / M.Tech/ Post Graduate b) Experience: Minimum 3 years. Should have experience in Control Center infrastructure maintenance /operations for at least 1 project of similar nature.	Agreed
166	1	6.3		39	This Performance Bank Guarantee shall be for an amount equivalent to 5% of total contract value.	Request that MTC accepts two separate PBGs. One for 5% of the total CAPEX value for the implementation period, another for 5% of the total OPEX value for the O&M period.	Agreed
167	1	6.8		41	In case of any dispute, the matter will be referred to a sole Arbitrator to be appointed by the Managing Director, MTC under the "Arbitration and Conciliation Act 1996".	Request that the clause be modified as: In case of any dispute, the matter will be referred to a sole Arbitrator to be appointed by the Managing Director, MTC and the System Integrator based on mutual discussion under the "Arbitration and Conciliation Act 1996".	Tender clause remains unchanged
168	1	8.1	9	43	The bidder shall either submit the bid as Sole Bidder or as consortium. In case of Consortium bid, one of the entities of the consortium shall be a termed as Lead bidder and other(s) would be termed as consortium partner(s).	Please specify the number of consortium members. We suggest 4 members for this kind of work.	Maximum Number of Members allowed is 3 (Lead Bidder + Consotium Partner 1 + Consortium Partner 2)

169	1	8.1	11	45	Positive Net Worth for all the Bidders in Indian Rupees for each of the last 3 audited FY. Supporting Document : Certificate from the Statutory auditor / CA Certificate clearly specifying the net worth of the firm for the last 3 audited FY	Kindly amend the Pre-qualification criteria repeated here as below: Positive Net Worth for the Sole Bidder/ Lead Bidder (in case of consortium) in Indian Rupees as on 31st March 2019. Supporting Document : Certificate from the Statutory auditor / CA Certificate clearly specifying the net worth of the firm as on 31st March 2019.	Tender clause remains unchanged
170	1	8.1	15	46	Supporting Document : Copies of valid certificates in the name of the sole bidder or the Lead bidder in case of a Consortium	As per Pre-qualification criteria, the certifications of Lead Bidder /Consortium Partners can be used to met the criteria. Whereas the documentary proof has mentioned about lead bidder's certificates only. Kindly modify the clause as below: Document Proof : Copies of valid certificates in the name of the sole bidder or the Lead bidder/Consortium partners in case of a Consortium.	Agreed. It was a Typo Error.
171	1	8.2		47	A. We hereby acknowledge and unconditionally accept that the MTC can at its absolute discretion apply whatever criteria it deems appropriate, not just limiting to those criteria set out in the RfP and related documents, in short listing of Agency for providing services.	Request that the clause be modified as: A. We hereby acknowledge and unconditionally accept that the MTC can at its absolute discretion apply whatever criteria it deems appropriate, not just based on the criteria set out in the RfP and related documents, in short listing of Agency for providing services.	Agreed
172	1	8.3	C	49	C. Financial Turnover Note: Bidder are given options to give details on Provisional Financial Turnover of 2019-20 instead of 2016-17.	Our understanding is that, the financial turnover certificate from a statutory auditor / CA in the format given in this section is required to be submitted. Please confirm. Also please confirm that, the Provisional Financial Turnover of 2019-20 is not mandatory requirement for the bidders.	Bidder are given options to give details on Provisional Financial Turnover of 2019-20 instead of 2016-17 Last 3 audited Financial Years (FYs) can be either (i) 2017-18, 2018-19, 2019-2020 (Provisional or Final) or (ii) 2016-17, 2017-18, 2018-19
173	1	8.3	D	49	D. Net Worth Positive net worth for the last 3 audited financial year. Copy of self-certified statutory auditor / CA Certificate to be submitted along with the bid	Kindly amend the clause as: Positive net worth as on 31st March 2019. Copy of self-certified statutory auditor / CA Certificate to be submitted along with the bid.	Tender clause remains unchanged
174	1	8.4	8.4	50	Bidder's Experience - Client Citations Documentary evidence provided and Reference in the bid (Section and Page No)	Please remove the page number reference requirement here. Amend the statement as: "Details of Documentary evidence provided"	Tender clause remains unchanged
175	1	8.5	8.5	51	Self-certificate for Project execution experience (In Bidding Entity's Letter Head)	Please confirm whether this certificate is required for ongoing projects only and not for completed projects.	For All Projects
176	1	9.1	6	57	Technical Check-List: Valid CMMI certification Copy of valid certificate in the name of the bidder as on bid date	In line with proposed changes against our request in Technical Evaluation Criteria, kindly modify the clause in technical checklist as: Valid CMMI and ISO certification Copy of valid certificate in the name of the bidder as on bid date	Tender clause remains unchanged
177	1	9.1	7	58	Technical Check-List: Valid MSME Certificate Copy of valid certificate in the name of the bidder as on bid date	In line with proposed changes against our request in Technical Evaluation Criteria, kindly modify the clause in technical checklist as: Valid MSME Certificate Copy of valid certificate in the name of the bidder/any consortium partner as on bid date	Bidder means "Sole Bidder or Lead Bidder or Consortium Partner"

178	1	9.1	8	58	Technical Check-List: The Bidder (Sole / Lead Bidder / Consortium Partner) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector in the last 5 years	In line with proposed changes against our request in Technical Evaluation Criteria, kindly modify the clause in technical checklist as: The Bidder (Sole / Lead Bidder / Consortium Partner) should have Prior Project Experience in implementing at least one ICT solution for any City/State with any of the following components for any Government / Public Sector in the last 7 years	Tender Clause remains unchanged See Prebid Addendum 1
179	1	9.1	9	58	Technical Check-List: The Bidder (Sole / Lead Bidder / Consortium Partner) should have Prior Experience with large scale citizen-centric / citizen-safety solution with proactive monitoring & analysis of project value of greater than INR 10 crores for any Government / Public Sector in the last 5 years	In line with proposed changes against our request in Technical Evaluation Criteria, kindly modify the clause in technical checklist as: The Bidder (Sole / Lead Bidder / Consortium Partner) should have Prior Experience with large scale citizen-centric / citizen-safety solution with proactive monitoring & analysis of project value of greater than INR 10 crores for any Government / Public Sector in the last 7 years	Tender Clause remains unchanged See Prebid Addendum 1
180	1	9.1	10	59	Technical Check-List: The Bidder (Sole / Lead Bidder / Consortium Partner) should have Prior Experience in Mobile Surveillance Projects which includes centralized viewing (CCC) over 4G/3G for any Government / Public Sector in the last 5 years	In line with proposed changes against our request in Technical Evaluation Criteria, kindly modify the clause in technical checklist as: The Bidder (Sole / Lead Bidder / Consortium Partners) should have Prior Experience in Mobile Surveillance Projects which includes centralized viewing (CCC) over 4G/3G OR GPS based Vehicle Tracking System for any Government / Public Sector in the last 7 years.	Tender Clause remains unchanged See Prebid Addendum 1
181	1	9.5.2		68	Format for Curriculum Vitae (CV) of Team Members	CV of key personal who is currently working with Bidder it is not practical to share the CV as they are hired and working on other projects and may not pull out and deploy on the project . It is requested to take under taking from bidder that if Contract awarded Key perasonal will be provide with match with on e of the qualification/experience or higher mention in RFP	Tender clause remains unchanged
182	1	9.5.2	12 & 13	69	13. Certification I, the undersigned, certify that to the best of my knowledge and belief that this CV correctly describes my qualifications and my experience. I understand that any suppression of fact or misleading description herein may lead to my disqualification or dismissal, if engaged	Since the entire bid document, including the CVs suggested is countersigned by the authorised signatory of the bidding entity, we request that the requirement of the CVs being signed by the proposed resource be deleted.	Tender clause remains unchanged
183	1	9.7	9.7	70	Proposed Bill of Material (Technical Bid)	License requirement for Command & Control Centre is not given in the Proposed Bill of Material. Request to add the information/requirement in the BOM	RFP scope is self-explanatory. Bidder can add extra line items which they feel is required for successful execution of this project
184	1	9.7	9.7	70	Proposed Bill of Material (Technical Bid)	License requirement for Knowledge Management Solution is not given in the Proposed Bill of Material. Request to add the information/requirement in the BOM	RFP scope is self-explanatory. Bidder can add extra line items which they feel is required for successful execution of this project
185	1	9.7	B 23	71	Security enablement for DC & Field Infrastructure	The statement is generic to consider any security solution, Please provide more details on list of security solutions to be provisioned.	RFP scope is self-explanatory Kindly Find it in Voulume 2, Section 5.2.2
186	1	9.7	B 26	71	ICCC Application Software for Workflow & SOP Management including VMS	Kindly provide the concurrent license for the ICCC Application Software.	RFP scope is self-explanatory
187	1	9.7	F 1	72	IP Cameras (Set of 3) for 2800 MTC Buses	We sincerely request MTC to amend to reduce the number of buses to 2500	Agreed. See Prebid Addendum 1. for revised BoQ
188	1	9.7	F 1	72	IP Cameras (Set of 3) for 2800 MTC Buses: 2800 (Nos)	Please note that there are 2800 buses under scope, each bus will have 3 cameras. Hence, the total camera qty in all 2800 buses will be 2800 X 3 = 8400. Please confirm if the understanding is correct.	Yes, Your understanding is correct Now it will be for 2500 Buses, So camera quantity inside Bus will be 7500

189	1				The value of tender is mentioned as 72 cr.	Due to COVID 19 situation, the cost of man power , freight charges and equipment cost is raised than previous days. Kindly revise the value of tender sufficiently or kindly consider alternative solution without affecting the functional requirement.	See Prebid Addendum 1. for revised BoQ
190	1	10	9	75	The detailed commercial bid as per given templates below shall be submitted in separate sealed covers. The summary of the commercial bid should be indicated in as per prescribed template in this bid document.	Kindly remove physical submission of commercial bid and mandate online submission.	Tender clause remains unchanged
191	1	10.1	B 7	76	Digital Calling VoIP & EPABX including 2 - PRI	Manpower is required for attend these calls?	Yes
192	1	10.1	B 27	77	ICCC Application Software for Workflow & SOP Management including VMS	VMS and ICCC are two different sytem. Hence we request you to kindly provide a separte line item for VMS in the BOQ.	Tender clause remains unchanged
193	1	10.1	D	78	(regarding 3G/4G SIM cards required for TAB)	There will be recurring cost towards 3G/4G SIM cards used for TABS for 36 months + 10 months , but there is no provision to quote these costs	RFP scope is self-explanatory. Bidder can add extra line items which they feel is required for sucessful execution of this project
194	1	10.1	F 2	78	(regarding AIS 140 GPS devuce sim costs)	The 2800 devices as per AIS 140 have been mentioned which specifies dual SIM usage. This may not be required here. Do we need to use dual SIM or can we use normal SIM cards or can we use 3G/4G SIM card data of NVR for GPS device also.	See Prebid Addendum 1
195	1	10.3		80	CAPEX: OPEX Ratio [capped to 60% i.e. is [(A / T) x 100]	CAPEX: OPEX Ratio [capped to 80% i.e. is [(A / T) x 100]	Clause modified as "CAPEX: OPEX Ratio [capped to 75% i.e. is [(A / T) x 100]" See Prebid Addendum 1
196	1	10.3		81	The bidders shall ensure that the CAPEX:OPEX ratio does not exceed 60%. The CAPEX:OPEX ratio is calculated by dividing the CAPEX by Total project Cost in above table.	The bidders shall ensure that the CAPEX:OPEX ratio does not exceed 80%. The CAPEX:OPEX ratio is calculated by dividing the CAPEX by Total project Cost in above table.	Clause modified as "The bidders shall ensure that the CAPEX:OPEX ratio does not exceed 75%. The CAPEX:OPEX ratio is calculated by dividing the CAPEX by Total project Cost in above table."
197	1	10.4	10.4	81	Price Discovery for Additional Order	Please clarify whether the price discovery asked here for additional MTC buses should be by considering all the same requirements of MTC buses listed under 10.1 CAPITAL EXPENDITURE [CAPEX (A)] only.	Yes, Your understanding is correct
198	1	10.4	10.4	81	Price Discovery for Additional Order	Please clarify whether the price discovery asked here for additional MTC buses will be considered for the commercial evaluation of the bidders or not	No, It will not be considered for Commercial evaluation. But It will be considered to give Additional Work Order
199	1	12	12	84	Annexure 6 – Non-Disclosure Agreement	Does the NDA should be submitted by each consortium partner, in case of consortium? Or by the lead bidder alone?	It is applicable for All Bidders (Sole Bidder / Lead Bidder / Consortium Partner)
200	1	14	14	89	Annexure 8 - Format for Power of Attorney to Authorize Signatory We, M/s._____ (name of the firm or company with address of the registered office) and M/s._____ (name of the firm or company with address of the registered office) hereby constitute, appoint and authorize Mr. or Ms._____	There seems to be an error in the format for Power of Attorney to Authorize Signatory. Duplicate entries for the name of firm/company is there in the format. Please correct the error and remove the duplicate entry.	Typo Error. To Be Read As We, M/s._____ (name of the firm or company with address of the registered office) hereby constitute, appoint and authorise Mr. or Ms._____ (Name and residential address) who is presently employed with us and holding the position of _____, as our Attorney
201	1	15	15	91	Annexure 9 - Format for Power of Attorney for Lead bidder of Consortium Notes: i. To be executed by all the members individually, in case of a Consortium/Joint Venture.	The notes given under the format mentions that, the Power of Attorney for Lead bidder of Consortium must be executed by each members individually. Please clarify , if the consortium has a lead bidder (A) & a consortium partner (B), then the consortium partner (B) only needs to sign this power of attorney favoring the lead bidder (A) and the lead bidder is not required to sign this power of attorney. Please clarify.	Yes, Your understanding is correct

202	1				General query to include parent company credential usage.	Requesting MTC to kindly allow the bidder, who is a 100% subsidiary of Foreign/Indian parent company to use its parent company's financials and project experience for meeting the eligibility criteria and technical evaluation criteria sought in the RFP.	Tender clause remains unchanged
203	1				Addl	In View of Covid19 pandemic condition it is suggested that system should capable to capture temprature of employees/travelers through IP camera mention in the RFP	Tender clause remains unchanged
204	1				Tender value is mentioned as Rs. 72,00,00,000	Kindly increase the budget of tender sufficiently.	See Prebid Addendum 1. for revised BoQ
205	1					In order to have reputed OEMs who are globally recognized we request you to add below clause. The Proposed ICCC Platform should have been featured in any of the Gartner's reports or other similar reports like Navigant, IDC or SPEC CPU 2017 or IDC reports or Forrester or Frost & Sullivan etc at least once in the last two years as on day of submission.	Tender clause remains unchanged
206	1					In order to have reputed OEMs who have prior experience of working in similar project we request you to add below clause The Proposed ICCC Platform should have been implemented in at least 2 smart cities in India out of which one should be in operation for more than 1 year. Additionally the same platform should have been implemented to 5 client (for any government organization/PSU) in India or globally.	Tender clause remains unchanged
207	1		New Clause			The proposed Software OEM should be CMMI level 5	Tender clause remains unchanged
208	2	1.2	1.2	4	The Command and Control Centre will be a fully integrated system with upgraded software for video analytics (future scope) and generate actionable information and alerts.	Can you confirm whether Video Analytics is required as there are few requirements in the RFP for "Edge Analytics, Big Data Analysis" etc..?	Video Analytics will be Future Scope and the Selected Bidder Must consider all the Future Scope like Video Analytics, PIS, ITMS, E-Ticketing System
209	2	1.2	1.2	5	System Integrator may also be required to transmit the Video feeds to any other CCC run by government agencies (like Chennai Smart City, GCC, GCP, etc.) in the future.	Who will provide the bandwidth / connectivity and viewing station? What is expected from the winner of this bid?	It is Future Scope. It will be Mutually Decided between the Authorities at that time
210	2	1.2	1.2	5	The architecture envisages that the video feeds of the surveillance camera installed inside the Buses, Depots and Terminals to be stored in a Data Centre in the Metropolitan Transport Corporation (MTC). The video feeds would be viewed on a large video wall installed at the Command and Control Centre	The proposed network connectivity from buses to data center is 4G. The live vide feeds from buses will require continuous bandwidth, which is difficult as the buses will be moving throughout the city and the network can be fluctuating. Hence the live feeds from buses will be subjected to availability of network. Hence, please remove the bus's live feeds viewing requirement.	Kindly Read Section 5.6.2 System to transmit all the Surveillance Feed inside the Bus at least 30 Seconds before the Panic Button is pressed and minimum 30 Seconds footage after Panic Button is pressed Otherwise it will be Video on Demand Only (System should be capable of viewing the Surveillance Feed from the Bus at the CCC as and when required)
211	2	1.3.1.2	1.3.1.2	6	Minimum Estimated Bandwidth to Command & Control Centre – Dedicated connectivity – minimum 3 Gbps bandwidth..	In case the bidder uses cloud based data centre, do we need this kind of connectivity at CCC. Please elaborate	Bidder to do necessary sizing according to his solution
212	2	1.3.1.3	1.3.1.3	7	Command and Control Centre	Is CCC software in the scope of bidder? The item is not shown in the BoQ	Yes. Kindly See BoQ Line Item B.27 under Section 10.1 in Volume 1
213	2	1.3.1.4	1.3.1.4	7	.. In normal situation, the data in data center shall be replicated in Disaster Recovery centre automatically in real time	Is video recording also to be replicated at DR?	Since NVR/mNVR is recording on-site and Video feeds are also available at DC, DR may not require to record Video Feeds. However sufficient DR sizing to be provided to ensure uptime and failover assertions
214	2	1.3.1.4	1.3.1.4	7	The data centre may be located in Chennai. In case of a disaster or failure of the data.	Can we consider DC/ cloud anywhere / outside india ?	The DC/DR should be at a MeitY empaneled Cloud Service Provider and should be located within India

215	2	2.1.2.1	D	9	Control Centre Layer: Big Data analysis, Dashboards, SOP and EMS, etc. enable administrators to get a holistic view of city conditions, and make informed decisions.	Can you provide us the list for use cases for the big data analysis?	RFP Scope and objectives are clear. It is expected that the entire system will generate a huge amount of Data and metadata like location, system health, on/off times and exceptions. Big Data capability in the command center application shall be used to provide gainful insight relevant to the system.
216	2	2.1.2.1	Security	10	MTC may carry out the security audit of the entire system in approx. 3 months of Acceptance / operationalization through a Third-Party Auditor (TPA) once every 6 months and SI will have to bear the charges. The following guidelines need to be observed for security:	Bidder will keep the standards as mentioned in RFP. Bidder cannot assess the cost of 3rd party auditor engaged by MTC. Hence it is requested MTC to bear the 3rd party auditor charges.	It is in Bidder Scope
217	2	2.1.2.1	Scalability	10	.. scalability up to 5000 MTC Buses to provide continuous growth	Here we assume that additional storage required in case of expansion up to 5000 buses from 2800 buses will be procured separately by MTC as there is no provision to quote these rates for storage in price discovery. Please confirm	RFP Scope is self explanatory
218	2	2.1.2.1	Security	10	Security - The architecture must adopt an end-to-end security model that protects data and the infrastructure from malicious attacks, theft, natural disasters etc. Successful Bidder must make provisions for security of field equipment as well as protection of the software system from hackers and other threats. Using Firewalls and Intrusion Prevention Systems such attacks and theft should be controlled and well supported (and implemented) with the security policy. Virus and worm attacks should be well defended with gateway level Anti-virus system, along with workstation level Anti-virus mechanism. There should also be an endeavour to make use of the SSL/VPN technologies to have secured communication between Applications and its end users. Furthermore, all the system logs should be properly stored & archived for future analysis and forensics whenever desired. MTC may carry out the security audit of the entire system in approx. 3 months of Acceptance / operationalization through a Third-Party Auditor (TPA) once every 6 months and SI will have to bear the charges	Do we need to provide SSL Certificates? Do we have to do CERT-IN Performance testing?	RFP Scope is self explanatory Bidder to ensure proper standards are followed
219	2	2.1.2.1	F	10	Cross-Functional Vertical Security Layer - As multiple field devices are connected through a network, security of the entire system becomes of paramount significance and the SI will have to provide: Infrastructure security, Network security, Identity and Access Management, and Application security.	Request to elaborate on Identity and Access Management, Application security specifications ? Also please add them in BoQ line items.	RFP Scope is self-explanatory. Bidder can add extra line items which they feel is required for successful execution of this project
220	2	2.1.2.1	2.1.2.1	10	Redundancy has to be considered at the core / data centre components level.	Please add Firewall of 2 Nos in BoQ line item considering HA	RFP Scope is self-explanatory. Bidder can add extra line items which they feel is required for successful execution of this project
221	2	2.1.3.1.1	CCC Site Preparation	12	System Integrator shall setup the ICT, and non-ICT infrastructure for Command and Control Centre including Building at the space available (Approximately 2264 Square Feet) at the MTC premises. The System Integrator shall do the site visit to estimate his work scope including demolition of existing Building, Civil Work envisaged, interiors and finishing.	Generally in every government related tenders, the demolition/construction of buildings are released as separate tender. Construction/demolition of building is purely civil scope which technology companies are not exposed. Hence request to descope the demolition and construction of building from this tender.	Tender clause remains unchanged
222	2	2.1.3.1.2	Video Wall	12	The SI shall provide Video Wall of minimum 40Ft x 7Ft. In similar lines, the SI needs to propose the design for the approved site.	Please confirm on below: The size 40 x 7 ft does not look appropriate. Please review once.	It is not a DLP Video Wall. Specification for Active LED Video Wall is given. Bidder is free to Provide DLP Video wall of appropriate size as required. See Prebid Addendum 1 for DLP Specification
223	2	2.1.3.3	Field level Components	13	SI shall provide Power (provisioning of power including one-time charges and energy meter) and Network (Last mile including bandwidth - Internet & Intranet) at the field locations and CCC, DC / DR and viewing locations.	Is SI supposed to provide power connection with costs at all sites (CCCC, Depot, Terminal etc) and whether recurring electricity charges will be paid by MTC or are to be paid by bidder?	Yes wherever Required. However recurring Electricity Charges at ICC, Depots & Terminals will be borne by MTC

224	2	2.1.3.5	Connectivity	13	SI is required to provide the data connectivity for all components on IP based protocol to the CCC and DC/DR. This would include 4G/5G on the Buses, Broadband Connectivity at Depots and Terminals and finally dedicated leased line at CCC.	Kindly remove broadband connectivity. Since MPLS/ leased line is the viable solution for this requirement.	Typo Error. "Broadband Connectivity at Depots and Terminals" Should be read as "MPLS Connectivity / ILL at Depots and Terminals"
225	2	2.1.4.2	5	16	5. Cameras CE, BIS, UL (Non-multilisted)	Mandatory foreign certifiante 'UL' is asked whereas BIS (Inidan certificate) equivalent to UL exist which should be allowed in place to promote and support Indian OEMs. Ministry of Finance had issued an Office Memorandum dated 12th May 2020 which emphasising the mandatory use of Indian Standards in Technical Specifications. ".....wherever Indian Technical specifications and Quality Certifiactions exist, the procuring entity should prescribe them" In the technical specification of camera and NVR you have already accepted UL/BIS. Kindly amend camera certificate as: CE, UL/BIS	Clause to be read as "CE / FCC / UL / BIS "
226	2	2.1.4.2	5	16	Cameras: CE, BIS, UL (Non-multilisted)	Cameras: CE (EN 55024:2010+A1:2015, EN 61000-3-2:2014), BIS (IS 13252(PART 1):2010), UL (UL 60950-1) Please mention the sub standard required for the camera under these certificates to get the best quality products.	Clause to be read as "CE / FCC / UL / BIS " Minimum Standards are prescribed. Bidder is free to provide best quality products for the solution
227	2	2.1.4.2	5	16	Cameras : CE, BIS, UL (Non-multilisted)	Cameras : CE, BIS, UL , (Non-multilisted)	Clause to be read as "CE / FCC / UL / BIS "
228	2	2.1.4.2	6	17	6. Quality Audits MTC at its discretion, may also engage independent auditors to audit any/some/all standards/processes. The SI shall support all such audits as per calendar agreed in advance. The result of the audit shall be shared with the SI who has to provide an effective action plan for mitigations of observations/non-compliances, if any.	Request to clarify who will bear the cost this quality audit.	It is in Bidder Scope
229	2	2.1.5	5	17	Section 5 - Training & Capacity Building	We are assuming, tender authority will provide training infrastructure like training room, projector, table, chairs etc. Please confirm Approx number of users to train?	No, It is in Bidder Scope
230	2	2.1.5	5	17	Section 5 - Training & Capacity Building	How many people and how many batches?	2 Sessions in MTC Office, once every 6 months 1 For Officers (maximum 30 members) 1 For Technical team (maximum 50 members?)
231	2	2.1.5	9	18	SI will maintain a copy of all the training material on the knowledge portal and access will be provided to relevant stakeholders depending on their need and role.	As per our understanding, the SI has to provide the material and MTC will put it up on their knowledge protal. Please confirm. Most SIs do not have knowledgge portals of their own.	Tender clause remains unchanged
232	2	2.1.5.1	2.1.5.1	19	Training Material Languages - English, Tamil	Hope the training materials in English language will be sufficient.	Bidder has to prepare the Training Material in Both English and Tamil
233	2	2.1.5.2	2.1.5.2	19	Are fluent in speaking and writing in English and Tamil	All the technical resource may not be fluent in Tamil to communicate. Considering this request to please remove this clause.	Tender clause remains unchanged
234	2	2.2.2.3	2.2.2.3	21	MTC personnel will be trained and deployed as CCC operators by the SI	This means the manpower will be deployed by MTC and SI need to train them for CCC operations. Please confirm that this mnapower is not to be provided by SI	It is a 16 Seater CCC. MTC personnel must be trained by Bidder for smooth handover during O&M
235	2	2.2.3.5	2.2.3.5	23	Database Administration & Management Services	Do we have SQL Server or Oracle database license to create a instance for new system? Or do we have to buy new licenses?	It is in Bidder Scope
236	2	2.2.3.8	2.2.3.8	24	Ensuring that patches / workarounds for identified vulnerabilities are patched / blocked immediately.	Understand that patch management solution to be provisioned. If yes, please provide specifications of Patch management solution	It is in Bidder Scope

237	2	2.2.3.8	2.2.3.8	25	Maintenance and management of security devices, including, but not limited to maintaining firewall services to restrict network protocols and traffic, detecting intrusions or unauthorized access to networks, systems, services, applications or data, protecting email gateways, firewalls, servers, from viruses.	Can you confirm whether email gateway is required? If email gateway is required can you confirm the subscription charges will be borne by the client?	It is in Bidder Scope
238	2	3.1.1	Implementation SLAs	30	0.1% of total CAPEX of the undelivered portion for every week of delay	SLA penalties on weekly basis are extremely stringent. Request the clause be modified as: 0.1% of total CAPEX of the undelivered portion for every week month of delay. The penalty levied shall be reimbursed to the bidder at the successful completion of project implementation within the agreed time frame between MTC & Bidder.	Tender clause remains unchanged
239	2	3.1.1	Implementation SLAs	30	In case the penalties for the selected bidder reaches 10% of the CAPEX value in the form of penalty, cumulative of penalties for all elements, at any point of time during the implementation phase, MTC reserves the right to invoke the termination clause.	We request that the provision for termination be deleted.	Termination will be decided on case to case basis
240	2	3.1.2.1	SLA and Penalty for Response and Resolution time	30	Core Infrastructure: Centralized Infrastructure availability & Performance degradation of all the hardware, software, network connectivity, surveillance Solution, Portal, etc. that are deployed by the SI Uptime per each Camera level Penalty 99.9 % Nil >98% & less than 99.9% 1% on the OPEX payable	The data center efficiency requested in majority of the tender is from 99%. Request to relax the SLA as below: Uptime per each Camera level Penalty 99 % Nil >97% & less than 99% 0.5% on the OPEX payable.	Tender clause remains unchanged
241	2	3.1.2	Operation & Maintenance SLAs	30	The upper limit of penalty would be capped at 10% of the OPEX value for each quarter. In case the calculated penalty crosses 10% penalty of the OPEX value in 2 subsequent quarters, MTC reserves the right to invoke the termination clause.	We request that the provision for termination be deleted.	Termination will be decided on case to case basis
242	2	3.1.2.1	SLA and Penalty for Response and Resolution time	31	Field Infra Critical : (camera service) Service Availability/functionality & Performance degradation of all the hardware, software, network connectivity (Depots & Terminals only), etc. Uptime per each Camera level Penalty (%) > 99 % Nil >98% & less than 99% 1% on the OPEX payable For Every 0.5% drop from <98% Additional 2% on the OPEX payable	The field equipment is exposed to multiple threats and is spread across various area. In case of any fault, SI requires time till the device to be in their vicinity. Considering the fact, request to relax the SLA as below Uptime per each Camera level Penalty (%) > 95 % Nil >92% & less than 95% 0.5% on the OPEX payable For Every 0.5% drop from <98% Additional 1% on the OPEX payable	Tender clause remains unchanged
243	2	3.1.2.2	SLA for Business Continuity Planning	31	Data Loss and Returning to Business-as-usual	The penalties suggested for the OpeX period are extremely stringent. We request that the rates of penalty be revised and the Penalty for Business Continuity Planning be deleted.	Tender clause remains unchanged
244	2	3.1.2.3	SLA for Change Requests or enhancements	31	* For every week delay in providing replacement of Key Resources (as per Vol. I) from the approved date of exit of the key resource from the project, shall attract a penalty of INR 5000 per day per resource	Requesting to reduce the penalty from 5000 to 1000.	Tender clause remains unchanged
245	2	3.1.2.3	SLA for Change Requests or enhancements	32	For every week delay in providing replacement of Key Resources (as per Vol. I) from the approved date of exit of the key resource from the project, shall attract a penalty of INR 5000 per day per resource	The penalty suggested for Resource Replacement is very steep. Since it is the responsibility of the SI to complete the project and maintain overall SLA, we request that this specific penalty for resource replacement be deleted.	Tender clause remains unchanged
246	2	3.1.2.3	SLA for Change Requests or enhancements	32	5 Application Security "Depending on the type of incident and its impact, a Penalty of 10% on the "Section I total OPEX "or in case of severe issue (as defined by Authority) such breach may lead to termination clause of contract"	We request that the provision for termination due to Application Security related issues be deleted. Also Kindly change the penalty of 10% on OPEX per detected incident to INR 10,000 per day for delay in response.	Agreed

247	2	3.1.2.5	3.1.2.5	33	Penalties shall not be levied on the Bidder in the following cases: <input type="checkbox"/> There is a force majeure event	Sir, in case of damages due to vandalism also the penalties should not be levied. Please add related statement in this clause.	Some theft and Vandalism will be handled on case to case to basis as mentioned in the RFP already
248	2	4	Project Implementation Timelines	33	1. Solution Design Sign-off - T + 30 days 2. Supply of all ICT & Non-ICT infrastructure for the Solution - T + 120 Days 3. Installation of all ICT & Non-ICT infrastructure for the Solution - T+ 210 Days 4. Unit Testing by System Integrator - T + 240 Days 5. Final Acceptance Testing - T+ 270 Days 6. Solution stabilization & Go-Live - G= T + 300 Days 7. Operations & Maintenance Phase for a period of 3 years - G+12 Quarters 8. 36th month – Project Closures Exit Management - G+ 12th Quarter	Considering demolition and rebuilding of existing infrastructure, the given time frame does not seems realistic. The demolition, re building, and equipping command control center itself can take considerable time as there may be too much delay for the same. Considering the same request to amend the timeline as below. 1. Solution Design Sign-off - T + 30 days 2. Demolition, reconstruction and setting up interiors fo Command center - T + 210 days 2. Supply of all ICT & Non-ICT infrastructure for the Solution - T + 240 days 3. Installation of all ICT & Non-ICT infrastructure for the Solution - T+ 360 Days 4. Unit Testing by System Integrator - T + 390 Days 5. Final Acceptance Testing - T+ 420 Days 6. Solution stabilization & Go-Live - G= T + 450 Days 7. Operations & Maintenance Phase for a period of 3 years - G+12 Quarters 8. 36th month – Project Closures Exit Management - G+ 12th Quarter	Tender clause remains unchanged
249	2	4	Project Implementation Timelines	33	1. Solution Design Sign-off - T + 30 days 2. Supply of all ICT & Non-ICT infrastructure for the Solution - T + 120 Days 3. Installation of all ICT & Non-ICT infrastructure for the Solution - T+ 210 Days 4. Unit Testing by System Integrator - T + 240 Days 5. Final Acceptance Testing - T+ 270 Days 6. Solution stabilization & Go-Live - G = T + 300 Days	We request for the following modification in the project timeline: 1. Solution Design Sign-off - T + 30 days 2. Supply of all ICT & Non-ICT infrastructure for the Solution - T + 180 Days 3. Installation of all ICT & Non-ICT infrastructure for the Solution - T+ 270 Days 4. Unit Testing by System Integrator - T + 300 Days 5. Final Acceptance Testing - T+ 330 Days 6. Solution stabilization & Go-Live - G = T + 360 Days	Tender clause remains unchanged
250	2	5.1.1.1	5.1.1.1	34	Functional Specifications of the Application Software	Kindly provide the concurrent license for the Command & Control Centre.	Bidder to do necessary sizing according to his solution
251	2	5.1.1.1	1	34	The Command & Control solution should be implemented and complied to the industry open standards based Commercial-of-the-shelf (COTS) products.	is this Clause Mandatory? Can you whether the Bidder can develop and implement their own solution?	Tender clause remains unchanged
252	2	5.1.1.1 & 5.2.2.16	5.1.1.1 & 5.2.2.16	34	5.1.1.1 Functional Specifications of the Application Software & 5.2.2.16 ICC Application Software for Workflow & SOP Management	RFP volume 2 contains, Functional specification for CCC application from Page 34 to Page 42 and then under technical specification there are specifications given again for ICC Application Software for Workflow & SOP Management from Page 157 to 169. Please clarify that ICC platform has to fulfill both the specifications?	Yes, Bidder has to ensure functionality required for smooth execution of the Project is achieved
253	2	5.1.1.1	4	35	System must provide a comprehensive API (Application Programming Interface) or SDK (Software Development Kit) to allow interfacing and integration with existing systems.	Can you provide us existing system details for integration?	Bidder Must consider all the Future Scope like Video Analytics, PIS, ITMS, E-Ticketing System
254	2	5.1.1.1	6	35	The system shall allow seamless integration with all of the department's existing and future initiatives (e.g. open source intelligence)	Kindly requesting you to indicate the existign systems and future systems to enable the bidders to estimate the efforts for the same.	Bidder Must consider all the Future Scope like Video Analytics, PIS, ITMS, E-Ticketing System
255	2	5.1.1.1	8. Convergence of Multiple feeds / services	35	System need to have provision that integrates various services and be able to monitor them and operate them. The solution should provide option to integrate existing deployed solution by City and also need to provide scalability option to implement new use cases. System should have capability to source data from various systems implemented in Chennai (being implemented as part of this project or other projects) to create actionable intelligence	1. Provided the existing system has an option to integration through API and confirm the same requirement will be facilitated by the department for successful integration. 2. Kindly provide the tentative systems to be integrated	Yes Bidder Must consider all the Future Scope like Video Analytics, PIS, ITMS, E-Ticketing System

256	2	5.1.1.1	17	36	The Solution shall have applications to support the complete operational cycle of Planning, Responding and Debriefing.	Please clarify, Whether existing Emergency management system is available to achieve the functionality. If not, is the emergency management system should be considered as part of BOQ. Kindly brief the Debriefing functionality.	RFP Scope is self-explanatory. The CCC should have necessary capabilities
257	2	5.1.1.1	17	36	The Solution shall have applications to support the complete operational cycle of Planning, Responding and Debriefing	Kindly elaborate on the Debriefing Use case to help us understand the solution required.	RFP Scope is self-explanatory. The CCC should have necessary capabilities
258	2	5.1.1.1	20 -34	36	Incident Management Requirements	As this system is women and child safety centric, we would like to understand, what is the idea of MTC to capture incidents here? How MCT is planning to record incidents related to them? Or, Are we planning to capture incidents like road accidents, fire on bus, riots etc.? Is this system suppose to record any incident in real time which involves criminal acts in buses or in city? Are we expecting other sources (interfaces or modes) to record incidents than the core module? Are we expecting any automation or intelligence in to it? Please specify How many different type of departments, systems and software in the city shall be integrated with Incident Management System? Do they need to have any UI based access to the system? Who will provide data for GIS map ? If in the scope of bidder, can we use open source MAPs?	RFP Scope is self-explanatory Open source maps can be used for the solution.
259	2	5.1.1.1	28	36	GIS map functions shall include 2D and 3D views, synchronized, displaying the same objects and areas, and easily switched from one view to the other	All the City Assets and Cameras need to be visualized on Command Center Application. Will the Authorities provide Base Map for Command Center Application as it is a Map based Application. Does the city have existing GIS to integrate with Command Center.	RFP Scope is self-explanatory. It is in Bidder Scope
260	2	5.1.1.1	37	37	iv. Use of GIS tool which allows easy map editing for wide area monitoring (Google map / Bing map / ESRI Arc GIS map / Any Open Source Map).	It is understood as any of the listed map service ie Google map / Bing map / ESRI Arc GIS map / Any Open Source Map can be used as the base map for the project. Pls confirm.	Yes, Your Understanding is Correct
261	2	5.1.1.1	39-43	38	Integration with Social Media & Open Source Intelligence	Which all social media platforms are we targeting to be integrated with the proposed system? A use case story will be helpful to understand this requirement.	FB, twitter, instagram, linkedin, etc.
262	2	5.1.1.1	39-43	38	Integration with Social Media & Open Source Intelligence	The social media interfaces have sizable costs and there is no provision to quote these prices in OPEX. Or is it going to be paid separately afterwards . Please elaborate or add these in OPEX line item	RFP Scope is self-explanatory. Bidder can add extra line items which they feel is required for successful execution of this project
263	2	5.1.1.1	39-43	38	Integration with Social Media & Open Source Intelligence	Please confirm whether the access control will be facilitated by the department for the integration of social media.	It is in Bidder Scope
264	2	5.1.1.1	39	38	Should provide integration of the Incident Management application with the social media. Should provide analytics based on the social media feed collected from the open source intelligence	Please help us understand this feature. What kind of social media integration is expected. Is the application supposed to track social media account of public at large? Or does ot have to rack accounts of police, administration etc. We request more clarity on the objective and functions of this feature.	FB, twitter, instagram, linkedin, etc.
265	2	5.1.1.1	48-59	38	Standard Operations Procedures (SOP)	Does SOP tool and other functional Software need to be in sync? What type of integration is required ? Please specify the objective	RFP Scope is self-explanatory
266	2	5.1.1.1	39	38	Should provide analytics based on the social media feed collected from the open source intelligence and collate with the surveillance inputs to alert the responders for immediate action on the ground.	What are the envisioned use cases for these Analytics? For Eg. Facial Recognition & detection is required?	Social media dashboard, sentiment analytics, key words, etc. are the use cases
267	2	5.1.1.1	60-64	39	Key Performance Indicator	Does this mean user shall be able to create rules and/or add new KPI parameters through UI and that a dashboard will have some sort of charts represent the data based on these definitions? Please elaborate	RFP Scope is self-explanatory

268	2	5.1.1.1	Asset Management	40	The system shall provide the capability to define, search, and locate assets of various types, including vehicles, buildings, and people.	Please clarify, whether the Existing Asset Management Application should be integrated to Platform or Platform should have in built Enterprise Asset management. If the asset management to be part of new platform, it is assumed as, the existing asset details will be shared by the department which has to be visualized in the Map.	It should be a built-in capability of CCC, pertaining to assets managed under this project
269	2	5.1.1.1	67	40	Reporting Requirements	Is MTC expecting any BI report engine here? Please clarify ,what is exactly meant by On-Demand Reports?	Yes BI engine is essential to the CCC
270	2	5.1.1.1	69-70	40	Collaboration among Stakeholders	How many different type of departments, systems and softwares in the city shall be integrated with Incident Management System? Do they need to have any UI based access to the system?	RFP Scope is self-explanatory
271	2	5.1.1.1	77	41	Calling capability shall be available via GIS map icons	We need more clarity on who will be callerd using GIS map icons? Why the same is needed and where will we load the costs of these calls?	RFP Scope is self-explanatory
272	2	5.1.1.1	79	41	Communication Requirements	Dispatch management will be required. Is there any current business workflow exists in the manual process? What is the turn around time of the response and action? For example, if any incident is reported in CCC then within what time should the dispatch action shall happen, what is expected communication time between incident reporter from CCC to dispatch agency? Within what time should he take the action after getting information of the incident?	RFP Scope is self-explanatory
273	2	5.1.1.1	81-82	41	Events and Directives control	Which type of events are expecting to be logged in the system? Which are the sub-system that will produce events? How Realtime events will be captured?	RFP Scope is self-explanatory
274	2	5.1.1.1	84	41	Security & Access Control	Are we expecting third party systems to allow login from this SSO module ? For example: whether a senior user on this system shall be able to login to a third party system which is deployed at/for a Security Agency (Police Department)? Need more specific objective in this area	RFP Scope is self-explanatory
275	2	5.1.1.1	83	41	The system should provide the software component for the message broadcast and notification solution that allows authorized personal and/or business processes to send messages to target audience (select-call or global or activation of pre-programmed list) using multiple communication methods including SMS, Voice (PSTN/Cellular), Email and Social Media.	Does tender authority have any existing SMS and Email subscription? If Yes then can we use the same in this system. If we don't have any existing subscription then can tender authority will do recharge as per need? Volume of the SMS will be very high and it's not feasible for a vendor to assume volume. We request tender authority to provide us SMS and Email subscriptions. Integration of the same will be done by selected vendor.	It is in Bidder Scope
276	2	5.1.1.1	95	42	95. Mobile Module – 2 -way communication for Field personnel	Kindly provide the mobile license for the Field personnel application.	200 licenses
277	2	5.1.1.1	95	42	Mobile Module – 2 -way communication for Field personnel i. Create an incident from the field ii. View incidents and relevant incident information including location and attachments iii. Exchange comments with the control room operators and other users iv. Support incident management at offline mode with ability to sync information when reconnect with network	Can you confirm whether "Field personnel" staffs has to be deployed by the bidder? Can you confirm whether "CCC Operators" has to be deployed by the bidder?	RFP Scope is self-explanatory
278	2	5.1.1.1	95	42	Mobile Module – 2 -way communication for Field personnel i. Create an incident from the field ii. View incidents and relevant incident information including location and attachments iii. Exchange comments with the control room operators and other users iv. Support incident management at offline mode with ability to sync information when reconnect with network	How many Field Mobile Personnel(Numbers) are envisaged?	Bidder to do due diligence before bidding

279	2	5.1.1.2	5.1.1.2	42	Functional Requirement for Knowledge Management Solution	Kindly confirm the number of concurrent users	200
280	2	5.1.1.2.8	Compliance with Open Standards	44	Should compliant to ODMA and WebDAV standards Supports interoperability through CMIS compliance <input type="checkbox"/> Workflows of the proposed Knowledge Management System should compliant to open standards such as BPMN, BPEL, WFMC. <input type="checkbox"/> Should compliant to records and metadata management standards such as DoD 5015.15, ISO 15489, Dublin Core	Our product is DoD 5015, ISO 15489-1, Dublin Core compliant & NeN 2082 Certified: This is the official Dutch standard for Information Management software products. This standard is applicable as "best practice" for every software that stores and manages digital data. The NEN 2082 standard is developed based on the Dutch, European and American requirements. Some of these are MoReq, ReMANO, DoD 5015, Kernmodel Interlab. The standard is in conformity with the international standard NEN ISO 15489-1, Information and Archive Management. European Conformity Bureau, The Netherlands – https://www.ecb.nl/projects/digitt.html Kindly request you to allow equivalent standard	Recommended Standards are provided. Bidder is free to provide a better or equivalent standard
281	2	5.1.1.2.8	Compliance with Open Standards	45	Workflows of the proposed Knowledge Management System should compliant to open standards such as BPMN, BPEL, WFMC.	The open standards such as BPMN, BPEL, WFMC workflow functionality can be achieved through equivalent standards also. Request to accept, if the solution is proposed with equivalent standards.	Recommended Standards are provided. Bidder is free to provide a better or equivalent standard
282	2	5.1.1.2.8	Compliance with Open Standards	45	Should compliant to records and metadata management standards such as DoD 5015.15, ISO 15489, Dublin Core	The standards such as DoD 5015.15, ISO 15489, Dublin Core functionality can be achieved through equivalent standards also. Request to accept, if the solution is proposed with equivalent standards.	Recommended Standards are provided. Bidder is free to provide a better or equivalent standard
283	2	5.1.1.3.1	5.1.1.3.1	47	Command and Control Centre Building	Please clarify: Who will provide/bear the consumables like paper, printer cartridge/tonner & recurring costs like Fuel for generator set, electricity/water bill, IP Phone bill, etc.	MTC will bear the cost for Electricity & Water. Rest in Bidder Scope
284	2	5.1.1.3.1	B - False Ceiling (at Command & Control Centre)	47	Safety - Ceiling system shall be seismic zone 3 or better tested and certified from government approved test laboratory on the name of Control Room Solution Provider.	Its Proprietary and Single OEM Centric, request you to delete it	Minimum specifications are provided. Bidder is free to provide a better or equivalent Standard. The requirement is of state-of-the-art control room and it must be a very safe solution. This requirement is not proprietary as the certificate can be taken from open market. This is safety requirement and to ensure that in process of achieving overall aesthetics the SI/OEM do not compromise on the safety; this clause is asked. The designer elements (like ceiling) must not collapse in case of earthquake vibrations. So, it is mandatory for OEM to provide the ceiling system as per seismic zone 3 or better tested and certified from government approved test laboratory on the name of Control Room Solution Provider
285	2	5.1.1.3.1	B - False Ceiling (at Command & Control Centre)	47	Environmental Concern - RoHS (Restriction of Hazardous Substances) certified (from UL/Intertek) ceiling to ensure restriction of hazardous substance.		What is your Query? Minimum specifications are provided. Bidder is free to provide a better or equivalent Standard.

286	2	5.1.1.3.1	B - False Ceiling (at Command & Control Centre)	47	Fire Safety - The on-perforated ceiling tiles shall be Class A fire rated as per ASTM E-84 (from UL/Intertek) to ensure that the material does not provoke fire and does not generate smoke."	Its Proprietary and Single OEM Centric, request you to delete it	<p>Minimum specifications are provided. Bidder is free to provide a better or equivalent Standard. ASTM e84 is not a proprietary certificate as it is a measure of safety. It is defined by American Standard of Testing and Materials to ensure that in case of fire incidence the interior and console material must not provoke the fire.</p> <p>The ASTM e84 Class A (from UL/Intertek) is mentioned to ensure that the proposed material has cleared the fire test for safety against surface spread of fire. It prevents fire from spreading and does not generate dangerous smoke so that in case of fire incidence the operators get sufficient time to take control of the situation or escape the facility without being trapped in fire/smoke. RFP Condition Prevails. Many of the manufacturer's like (but not limited to) Hunter Douglas, Pyrotech, Lindner have this certification.</p>
287	2	5.1.1.3.1	B - False Ceiling (at Command & Control Centre)	48	Quick & Easy Maintenance - UL Certified design feature of Integrated channel in ceiling for quick installation & replaceability of continuous linear light: The ceiling system having integrated inbuilt channel for installation of cove lights and shall permit quick and easy replacement of cove light without using any tools. Replacement to be carried out within 120 Seconds per meter.	Its Proprietary and Single OEM Centric, request you to delete it	<p>Minimum specifications are provided. Bidder is free to provide a better or equivalent Standard. These certifications are mentioned to ensure the quality in the final product. The Underwriter's Laboratory is not proprietary to anyone. Such certifications could be taken directly from UL.</p> <p>UL certificate ensures that the intended feature is verified by world's number one testing laboratory i.e. UL (Underwriters Laboratory). The UL certificate is asked to restrict/discourage generic compliance of specifications and provide considerable reduction in high maintenance costs & reduced idle times. The certification is to ascertain that the ceiling lights can be replaced within 2 minutes to provide minimum hindrance to the control room operators without taking any maintenance shutdowns.</p>
288	2	5.1.1.3.1	B - False Ceiling (at Command & Control Centre)	48	Acoustics - The tiles are designed to provide acoustics and ensure that no echo is generated in the control room. Ceiling has acoustical properties as the perforated tiles have 0.3 NRC according to IS:8225-1987, ISO: 354-1985 and ASTM 423-90.		<p>What is your Query? Minimum specifications are provided. Bidder is free to provide a better or equivalent Standard.</p>

289	2	5.1.1.3.1	C - Furniture and Fixture	48	Maintainability Feature - UL 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 audit Certificate to be enclosed with the bid.	Its Proprietary and Single OEM Centric, request you to delete it	Minimum specifications are provided. Bidder is free to provide a better or equivalent Standard. UL certificate ensures that the intended feature is verified by world's number one testing laboratory i.e. UL (Underwriters Laboratory). This lab is not proprietary to any company. In any typical control room the front edge of consoles is the component which comes in frequent contact of the operator. The soft polyurethane edge is an ergonomic requirement as per ISO 11064 (International norms for Control Room Ergonomics) and is meant to prevent injury (accidental impact) to operator during emergency and it also reduces the contact stress. In case of damage to this edge the desk design should permit quick & easy replacement within half an hour without taking any shutdowns or removal of the table tops. This is must to ensure zero downtime because of such maintenance. The UL certificate is mandatory to avoid generic compliance of specifications and provide best in class product to the control room.
290	2	5.1.1.3.1	C - Furniture and Fixture	48	Quality & Durability - The proposed console must be UL Listed product. Valid certificate to be enclosed with the bid. The Control Room Turnkey Solution Provider should have Trade Mark 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.	Its Proprietary and Single OEM Centric, request you to delete it	Minimum specifications are provided. Bidder is free to provide a better or equivalent Standard. UL Listed console : UL Listing means that UL has tested the product and determined that it meets specific & defined requirements. The product that bears the stamp of UL listing has been tested & verified on the set of rules governing the product to meet UL standards. RFP condition prevails. Similar to racks and other electrical components; the control desk is also an important aspect of control room on which one must not compromise in terms of quality. Trademarked : Trademark registration is a mark of genuine design and a proof of suppliers commitment towards the product. Being one of its kind facility the control room deserves such tested and qualified products.
291	2	5.1.1.3.1	C - Furniture and Fixture	48	Environmental Concern - Also, the Control Room Turnkey Solution Provider must be FSC Certified Company. Valid certificate to be enclosed with the bid.		What is your Query? Minimum specifications are provided. Bidder is free to provide a better or equivalent Standard.
292	2	5.1.1.3.1	C - Furniture and Fixture	48	Operator's Health - The entire console must be Greenguard gold certified from last 1 year. Valid certificate to be enclosed with the bid.	Its Proprietary and Single OEM Centric, request you to delete it	Minimum specifications are provided. Bidder is free to provide a better or equivalent Standard. Greenguard gold is an industry standard. As operators spend a considerable amount of their life in control rooms and are exposed to the chemical emissions from the interior finishes which includes volatile organic compounds (VOCs), carcinogens, formaldehyde and phthalates. Therefore Greenguard Gold certification is necessary to protect operators (including sensitive operators who are prone to allergies etc.) from such fumes. RFP Condition prevails. Many of the console manufacturer's like (but not limited to) Evans, Winsted, pyrotech have this certification.
293	2	5.1.1.3.1	C - Furniture and Fixture	48	Up gradation - For quick & easy installation , maintenance and retrofitting it is recommended to define the Monitor Arm Assembly as mentioned below:-		What is your Query? Minimum specifications are provided. Bidder is free to provide a better or equivalent Standard.

294	2	5.1.1.3.1	C - Furniture and Fixture	48	UL 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. UL certificate to be enclosed along with the bid.	Its Proprietary and Single OEM Centric, request you to delete it	Minimum specifications are provided. Bidder is free to provide a better or equivalent Standard. This feature is mandatory for quick & easy replacement of aluminum monitor mounting arms as per the ergonomic requirement of the user. UL certificate ensures that the intended feature is verified by world's number one testing laboratory i.e. UL (Underwriters Laboratory). RFP condition prevails. Certifications from UL are not proprietary to anyone.
295	2	5.1.1.3.1	C - Furniture and Fixture	48	Quick & Easy Maintenance - UL certified design feature of monitor arm assembly shall have auto lock, push & remove feature for quick release of VESA mounts and modular arm extensions for ease in maintenance and fixing of monitor by one technician within 30 seconds without using any tools."	Its Proprietary and Single OEM Centric, request you to delete it	Minimum specifications are provided. Bidder is free to provide a better or equivalent Standard. For any working control rooms this feature is necessary as it allows quick & easy replacement of monitors and ensures reduced downtimes. UL certificate ensures that the intended feature is verified by world's number one testing laboratory i.e. UL (Underwriters Laboratory).
296	2	5.1.1.3.1	D - Partitions (wherever required as per approved drawing)	48	Safety - ""Wall panelling system shall be seismic zone 3 or better tested and certified from government approved test laboratory on the name of Control Room Turnkey Solution Provider.	Its Proprietary and Single OEM Centric, request you to delete it	Minimum specifications are provided. Bidder is free to provide a better or equivalent Standard. Being a control room of National repute it is necessary that major safety compliance is not breached. To ensure that such designer elements do not collapse in case of earthquake and must sustain seismic vibrations.
297	2	5.1.1.3.1	D - Partitions (wherever required as per approved drawing)	48	Acoustic - Minimum 15% of the tiles shall have at least 10,000 micro-perforations per square meter to achieve NRC of 0.6 Sound Absorption Coefficient by diffuse field method; IS: 8225-1987 "Measurement of Sound Absorption Coefficient in Reverberation Room" (Equivalent to ISO: 354-1985 and ASTM 423-90).		What is your Query? Minimum specifications are provided. Bidder is free to provide a better or equivalent Standard.
298	2	5.1.1.3.1	D - Partitions (wherever required as per approved drawing)	49	Environmental Concern - RoHS (Restriction of Hazardous Substances) certified (from UL/Intertek) wall paneling to ensure restriction of hazardous substance.		What is your Query? Minimum specifications are provided. Bidder is free to provide a better or equivalent Standard.
299	2	5.1.1.3.1	D - Partitions (wherever required as per approved drawing)	49	Fire Safety - ASTM E84 certificate (From UL / intertek) for control room wall tiles to be submitted to ensure that the material does not provoke fire and does not generate smoke.""	Its Proprietary and Single OEM Centric, request you to delete it	Minimum specifications are provided. Bidder is free to provide a better or equivalent Standard. This is fire safety standard from American Standards for Testing and Materials.
300	2	5.1.1.3.1	D - Partitions (wherever required as per approved drawing)	49	Easy replacement - UL Certified Design feature of Modular wall Paneling tile having secure locking arrangement for equidistant mounting. Locking arrangement to 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 audit Certificate to be submitted along with the technical bid	Its Proprietary and Single OEM Centric, request you to delete it	Minimum specifications are provided. Bidder is free to provide a better or equivalent Standard. The UL certificate ensures that the intended feature is verified by the world's number one testing laboratory. RFP Condition Prevails.As control room is a mission critical area and in an unlikely case of damage to the existing wall panelling tiles the same should be replaceable within 20 seconds and thereby preventing loss of time of operators and ongoing operations. Certifications from UL are not proprietary to anyone.
301	2	5.1.1.3.1	D - Partitions (wherever required as per approved drawing)	49	Load bearing capacity- UL Certified Design feature of Load bearing capacity of Paneling:- Paneling structure shall have load carrying capacity of 300 Kg to hold any display unit on clamp having minimum length of 750mm. Valid UL audit Certificate to be submitted along with the technical bid."	Its Proprietary and Single OEM Centric, request you to delete it	Minimum specifications are provided. Bidder is free to provide a better or equivalent Standard. Load bearing capacity is to make sure that the panelling system is rigid/robust enough to sustain routine control room norms and it will not collapse. The UL certificate ensures that the intended feature is verified by the world's number one testing laboratory.

302	2	5.1.1.3.1	D - Partitions (wherever required as per approved drawing)	49	Fire Rated Wire Glass minimum 6 mm thick for all glazing in the partition wall complete. (External windows not included in this).		What is your Query? Minimum specifications are provided. Bidder is free to provide a better or equivalent Standard.
303	2	5.1.1.3.1	D - Partitions (wherever required as per approved drawing)	49	All doors should be minimum 1200 mm (4 ft.) wide.		What is your Query? Minimum specifications are provided. Bidder is free to provide a better or equivalent Standard.
304	2	5.1.1.3.12	Structured Cabling Components	60	The Specification mentioned for Passive Cable and component is not clear whether the requirement is for Cat6A and Fiber is for OM4	Please mention the Specification for Copper cable - Cat6A and Fiber cable - Multimode OM4	Bidder to do appropriate cabling
305	2	5.1.1.3.12	Structured Cabling Components	60	The Specification mentioned for Passive Cable and component is not clear whether the requirement is for Pre terminated or Breakout solutions	Please mention the specification is for Pre terminated components	Bidder to do appropriate cabling
306	2	5.1.1.3.12	Structured Cabling Components	61	Certification: UL Listed and Verified	Certification: Cables - CPR (B2ca-s1a,d1,a1) for Cables and Components should be UL Listed and Verified. CPR is new standards for cables as per EN 50575 so request you to amend the clause to CPR rating for cables & components should be UL listed & verified.	Minimum specifications are provided. Bidder is free to provide a better or equivalent standard
307	2	5.1.1.3.13	Precision Air Conditioning	61	The Data Centre Area shall be provided with fully redundant, microprocessor-based, gas-based, Precision Air-Conditioning system	We sincerely request MTC to amend the needful to centralized Air conditioning, with the reason being that this meets the criteria for the Smart data centre as well as the CCC.	Minimum specifications are provided. Bidder is free to provide a better or equivalent product
308	2	5.1.2.1	15	66	Cabinet Thickness : ≤73mm+5mm	This will vary from vendor to Vendor, hence I request you to kindly delete this specification	Agreed
309	2	5.1.2.1	16a	66	The optimal ratings specified for the LED Video Wall panel is ≥1500cd/m ²	The standard for outdoor viewing is considered within the range as requested in the bid clause. Anywhere in the range of ≥500-600cd/m ² is sufficient for indoor viewing. Hence, we sincerely request MTC to amend the clause accordingly for the indoor viewing of video wall specification	Clause modified as "Brightness Of White Balance ≥500cd/m ² "
310	2	5.1.2.4	Workstation for CCC	70	16. Power Supply (SMPS) : 700 W or better	16. Power Supply (SMPS) : 400 W or better As per specification, asked processor & Graphics together will not consume more than 300W. Request to mention as 400 W or better as it is an entry level Workstation Specification.	As per BEE standards maximum rated power of 700W has been sought, however any wattage lesser than 700W is considered greener hence acceptable.
311	2	5.1.2.7	Digital Calling VoIP & EPABX including 2 - PRI	71	Design of EPABX System (Modular with universal slots, Wall/Rack mountable)	Should be Read As "Design of EPABX System (Wall/Rack mountable). It's OEM Specific and IP-PBX can run without this clause	Tender clause remains unchanged
312	2	5.1.2.7	Digital Calling VoIP & EPABX including 2 - PRI	71	Digital Calling VoIP & EPABX including 2 - PRI The system shall support minimum 500 IP Phones with at least 100 concurrent sessions with features like –	Can you confirm whether Help Desk operators are required for this requirement? If yes how many resources are required?	5
313	2	5.1.2.7	6. No. of lines - ,ISDN PRI lines & Analog / Digital Extensions	72	2 PRI, 32 Extensions (IP / Analog / Digital)	Change Requested: 2 PRI, 32 Extensions (IP / Analog) ,Digital extension is proprietary to a few OEMs	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
314	2	5.1.2.7	7. Type of Extension Support	72	Analog , Digital and IP	Change Requested: Analog and IP ,Digital extension is proprietary to a few OEMs	Clause modified as " Analog / Digital / IP"
315	2	5.1.2.7	7. Type of Extension Support	71	Expansion of Extensions	Need Clarification of Extension Type	Clause modified as " Analog / Digital / IP"
316	2	5.1.2.7	9. Run Distance	72	Not less than 800 mtrs. on 0.5mm dia. Cable	Request to remove this point ,These points are specific to Analog Endpoints. The objective should be to create an IP Infrastructure. Therefore this point is redundant	Clause modified as "Not less than 800 mtrs. on 0.5mm dia. Cable / IP infrastructure"

317	2	5.1.2.7	10. Max. Loop resistance for analog trunk lines Extensions	72	2500 ohms including telephone	Request to remove this point ,These points are specific to Analog Endpoints. The objective should be to create an IP Infrastructure. Therefore this point is redundant	Clause modified as "2500 ohms including telephone / IP Infrastructure"
318	2	5.1.2.7	11. Requirement at the time of supply	72	02 ISDN PRI, 24 Analog Ports & 8 Digital extension ports. Expected to handle at least 30 external lines.	Change Requested: 02 ISDN PRI, 32 IP extension ports. Expected to handle at least 30 external lines. Analog and Digital should be replaced with IP because Analog is old technology and Digital is proprietary to specific OEMs	Clause modified as "02 ISDN PRI, 24 Analog / IP Ports & 8 Digital / IP extension ports. Expected to handle at least 30 external lines"
319	2	5.1.2.7	11. Requirement at the time of supply	71	02 ISDN PRI, 24 Analog Ports & 8 Digital extension ports. Expected to handle at least 30 external lines	Need Clarification on External Lines, what does it mean, Either it's CO/Trunk Line or Extension lines. Also it can be read as "02 ISDN PRI, 24 Analog Ports & 8 Digital extensions. Expected to handle at least 30 external lines" It's OEM Specific, And IP-PBX can handle all the calls with required interface	Clause modified as "02 ISDN PRI, 24 Analog / IP Ports & 8 Digital / IP extension ports. Expected to handle at least 30 external lines"
320	2	5.1.2.7	12. Contact centre Expansion available (Max. capacity)	72	It must support at least 16 Call centre Agents	Change Requested: It must support at least 16 Call centre Agents with IVR, Inbound, Outbound, Email and WebChat from Day1 ,There is a section on Helpdesk in the tender. It is important the a Multichannel Contact Center is enabled along with EPABX so that the Helpdesk team gets the request through various channels	Clause modified as "It must support minimum 5 Call centre Agents with IVR, Inbound, Outbound, Email and WebChat from Go-Live"
321	2	5.1.2.7	13. Max. loop resistance for analog trunk lines	72	1200 ohms at -48 Volts DC	Request to remove this point,These points are specific to Analog Endpoints. The objective should be to create an IP Infrastructure. Therefore this point is redundant	Clause modified as "1200 ohms at -48 Volts DC / IP Infrastructure"
322	2	5.1.2.7	14. Other	72	<input type="checkbox"/> ISDN supplementary services for Digital phone <input type="checkbox"/> Support for digital trunk lines <input type="checkbox"/> Working on 230v AC mains and DC voltage <input type="checkbox"/> Support for ACD call centre with CTI and advanced call routing	Change Requested: <input type="checkbox"/> Support for digital trunk lines <input type="checkbox"/> Working on 230v AC mains and DC voltage <input type="checkbox"/> Support for ACD call centre with CTI and advanced call routing ,Digital extension is proprietary to a few OEMs	Agreed
323	2	5.1.2.7	16. Conferencing	72	5 party conferencing to be provided (to be configurable dynamically)	20 party Full HD Video conferencing to be provided (to be configurable dynamically),The Command Center has Meeting Rooms. It is important to have a Video Conference Facility and not just Audio Conference	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
324	2	5.1.2.7	Additional Point	72	Additional Point	All 32 Endpoints to provided with a Softphone which has the below functionalities 1. Instant Messaging and Presence 2. Voice Calling 3. Video Calling 4. Content and File Sharing ,It is important to have collaboration tool with all users as a part of Telephony infrastructure	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
325	2	5.1.2.8	6	73	INPUT SUPPLY: 3phase 3wire for over 100 KVA	Typo error seen. As per Industry standard 3phase 4 wire shall be asked for any UPS above 15kva where Single phase is desired for below 100kva which is not possible.	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
326	2	5.1.2.8	7	73	Input Voltage Range : 305 to 478 VAC	Input Voltage normally fluctuates between +/- 15% from the nominal 400 VAC. We request you to kindly accept this range for input voltage window.	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
327	2	5.1.2.8	9	73	Output Voltage: 400 V 3phase for over 100 KVA UPS	Typo error seen. As per Industry standard 3phase 4 wire shall be asked for any UPS above 15kva where Single phase is desired for below 100kva which is not possible.	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
328	2	5.1.2.8	14	73	Back Up : 4 hours in full load	Please share the load power factor to design the back up. Should we consider 100 kVA load @0.8 pf to design the back up. Please suggest.	Bidder to Provide

329	2	5.1.2.8		73	Redundancy	Being Critical Load there must be Redundancy in UPS ; Recommend to consider 2 ups in parallel or MODULAR N+1 Configuration. Various advanced feature of Modular UPS Systems are missing like Hot Swappable Power Module of min 50kva/50kW(fully rated 3P), Green/Sleep Mode, Energy recycle mode, Hot Swap Dual Redundant Main Controllers in addition to controller in PM, Hot swap main static Bypass Swtich and touch screen dispaly of min 8.5" and 8500 event log can be evaluated for addition. Scalability upto 300kva/300kW for future expansion can also be looked into	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
330	2	5.1.2.8	12	74	Over all Efficiency >85%	Recommend to have latest technology UPS with High efficiency and Low Losses that means min it should be >95% at all load levels	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
331	2	5.1.2.8	14	74	Battery Backup-4 hours in full load	The back-up time of 4 hours is not a standard for ICC/DC UPS and that too on having a D.G(Diesel Generator) which kicks in as and when required. Kindly evalaute & consider around 15 to 30 min on full load of 100kW.	30 minutes backup on full load is sufficient
332	2	5.1.2.8	14	74	Battery Backup	Due to the presence of a generator, will MTC consider an ideal backup duration of 20 mins as against the 4 hours requirement in the bid, considering the additional Batteries involved and the Environmental Impact that is prone to be a result of prolonged generator usage	30 minutes backup on full load is sufficient
333	2	5.1.2.8	14	74	Point no - 15 -Battery Backup-4 hours in full load	Lithium Ion batteries are the latest technology can be evaluated for 15-30 min back-up time & shall be asked in RFP with a request to add some eligibility like min. 4 nos installations of Modular & Hot Swappable UPS(100kva or higher) with Lithium Ion batteries with any Govt/PSU customer in last 2 years. Also request to please evalaue for Lithium Ion batteries & specifiy the Chemsitry like LMO or NMC so that lower standard technoglogy can't be offered. Here in the Lithium Ion batteries, the warranty itself comes with 5 years. Battery i.e cell parameters like Cell level Voltage, SOC, SOH, Temperature can also be made available on UPS Touch Screen Display for Modular UPS Systems without needing any BHMS on seperate cost as in case of 12V SMF batteries	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
334	2	5.1.2.8	15	74	Battery	Kindly share if there is any list of approved make for battery.	No Preferred List
335	2	5.1.2.8	15	74	Battery	Please share the load bearing capacity for UPS + Battery room. Is there any false flooring available. If yes , please share the height for same.	New Building to be Constructed By the Bidder
336	2	5.1.2.8		74	Warranty	Please share the overall warranty to be considered for 100 kVA UPS required.	From Go-Live, 3 Years Warranty is in Bidder Scope. It is defined in Volume 3 of the RFP
337	2	5.1.2.8	18	74	Cabinet Tower/Rack	Shall be Modular UPS for any UPS above 30kva as was there in many Smart City project. We request you to add ISO Certificates as there in Field UPS(pg no 190-Point no 16 in RFP) i.e for ISO 9001, ISO 14001 and additionally for ISO 45001, TL 9000 & NABL Accredited OEM Factory Calibration lab in India for all UPS. And all UPS in entire proeject shall be from the same OEM. Kindly evaluate	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
338	2	5.1.2.8	19	74	Operating Temperature : 0 to 50 deg	For optimum performance and long life of equipment , it is recommenede to operate the system within 40 deg C of temperature. We request you to kindly accept the same.	Agreed

339	2	5.1.2.8	19	74	Operating Temp - 0 to 50 degree	Generally all UPS and Battery are installed in Inhouse Room with Air condition , So 0 to 40 degree operating temperature range is sufficient; for Batteries recommended to maintain temperature less than 27 degree to Optimize its Lifetime	Agreed
340	2	5.1.2.9	New Clause	74	Field of View	Horizontal Field of View 92°-32° Depth - 107°-D37° Vertical Field of View 51°-V18° with a deviation of ± 5% . Reason : End user should define expected Field of View and suggested filed opf view is as per industry standards	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
341	2	5.1.2.9	New Clause	74	Voice & Video-over-IP	SIP/VoIP Support	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
342	2	5.1.2.9	New Clause	74	In Built Analytics	Intrusion Detection, Region Exit, Advanced Motion Detection, Camera Tampering Detection, Virtual Tripwire, Human Loitering, Human Detection, People Counting, Object Left, Object Removed. Reason : Cameras today are build with High processing chipsets and majority of the industry does provide camera with all mentioned analytics	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
343	2	5.1.2.9	3	75	Video Compression: H.264 / H.265 or better	Video Compression: H.264, H.265 or better H.265 will save almost 50% storage & bandwidth as compared to H.264 so request you ask for both compression support.	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
344	2	5.1.2.9	3	75	Video Compression: H.264 / H.265 or better	Change : H.265+, H.265, H.264 +, H.264. Reason : H265+ is the new standard video compression that provides even more improvement over H264 and H265. It provides improved bit reduction of 57% at 1080p and 64% of UHD or 4K compare to H264 and H.265 respectively. Since your requirement is to record all cameras at Full HD, it is even more important that we have H.265+ compression.	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
345	2	5.1.2.9	5	75	Frame rate : Min. 25 fps	Change : Min. 50 fps. Reason : The potential for an incident might only represent 1%, or less, of the time a camera is recording. However, when a significant event does occur, it's better to record at a higher frame rate, because incidents such as a car accident, an altercation, or someone running away are usually only seconds long. Most of the industry todasy offers 50/60FPS cameras; hence our submission is to use 50/60FPS only	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
346	2	5.1.2.9	6	75	Image Sensor: 1/3" Progressive Scan CCD / CMOS	Change : 1/2.8" Progressive Scan CCD / CMOS	Clause Modified as "Image Sensor: 1/2.8" to 1/3" Progressive Scan CCD / CMOS or better"
347	2	5.1.2.9	6	75	Image Sensor: 1/3" Progressive Scan CCD / CMOS	Image Sensor: 1/2.8"-1/3" Progressive Scan CCD / CMOS	Clause Modified as "Image Sensor: 1/2.8" to 1/3" Progressive Scan CCD / CMOS or better"
348	2	5.1.2.9	7	75	Lens Type : Varifocal, IR Correction Full HD lens compatible to camera imager	Change : Varifocal, IR Correction Full HD lens compatible to camera imager with 50m IR. Reason : End user should define the IR distance to be covered (as a standard practice) and majority of cctv suppliers supply cameras with min. 50m IR	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
349	2	5.1.2.9	8	75	Lens : Auto IRIS 2.8-10mm	Change : 2.7-13.5mm Motorised	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification

350	2	5.1.2.9	9	75	Multiple Streams: Dual streaming with 2nd stream at minimum 720P at 30fps at H.264 individually configurable	Change : Triple streaming with Primary Stream on 50/60 FPS @ 1920x1080 Secondary Stream on 30fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180) Tertiary Stream on 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240, 320x192, 320x180). Reason : Triple streams provide much more flexibility to users by allowing different data streams to be sent simultaneously. Each stream has independent purposes: • The first stream with high resolution and full frame rate can be used for main monitoring. • The second stream with lower resolution can be used for mobile monitoring. • The third stream with high, low, or dynamic resolution offers more flexible choices.	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
351	2	5.1.2.9	9	75	Multiple Streams: Dual streaming with 2nd stream at minimum 720P at 30fps at H.264 individually configurable	Multiple Streams: Triple streaming with 2nd stream at minimum 720P at 30fps at H.265 individually configurable	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
352	2	5.1.2.9	10	75	Minimum Illumination: Colour: 0.1 lux, B/W: 0.01 lux (at 30 IRE)	Minimum Illumination: Colour: 0.001 lux, B/W: 0 lux with IR Better to have low lux support so that camera can generate colour image even in very dark condition also.	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
353	2	5.1.2.9	10	75	Minimum Illumination: Colour: 0.1 lux, B/W: 0.01 lux (at 30 IRE)	Change : Colour: 0.001 lux, B/W: 0.0001 lux (at 30 IRE). Reason : We strongly recemend to alter the specifications to higher level as the lighting condition may vary from location to location. Hence in order to have homgenous view of all cameras we should adopt to Min. Illumination of Color: 0.001Lux@F1.2 and B/W: 0Lux with IR on	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
354	2	5.1.2.9	14	75	14. Auto adjustment + Remote Control of Image settings : Colour, brightness, sharpness, contrast, white balance, exposure control, backlight compensation, Gain Control, Auto back focus	Auto back focus feature is normally associated with box camera with detechable lenses. For dome and bullet camera Auto Focus is preferred while adusting the lens (focal length). Thus request to amend the clause as - 'Auto adjustment + Remote Control of Image settings : Colour, brightness, sharpness, contrast, white balance, exposure control, backlight compensation, Gain Control, Focus - Auto'	Clause modified as "Auto adjustment + Remote Control of Image settings : Colour, brightness, sharpness, contrast, white balance, exposure control, backlight compensation, Gain Control, Focus - Auto"
355	2	5.1.2.9	15	75	Wide Dynamic Range: True WDR upto 80 db	Wide Dynamic Range: True WDR upto 120 db Best value for True WDR is 120dB to get the desired output so request you to change it to 120dB.	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
356	2	5.1.2.9	15	75	Wide Dynamic Range: True WDR upto 80 db	Change : True WDR upto 120 db.Reason : You may also refer to all major CCTV suppliers in India and aborad, True WDR starts from 120dB onwards	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
357	2	5.1.2.9	16	75	Audio: Full duplex, line in and line out, G.711, G.726	Change : Full duplex, line in and line out, G.711, G.726. Built in Audio in Camera and Audio Out for speaker	Clause modified as " Audio : Full duplex, line in and line out, G.711 / G.726"
358	2	5.1.2.9	16	75	Audio: Full duplex, line in and line out, G.711, G.726	Audio: Full duplex, line in and line out, G.711/ G.726	Clause modified as " Audio : Full duplex, line in and line out, G.711 / G.726"
359	2	5.1.2.9	16	75	Audio Full duplex, line in and line out, G.711, G.726	Change : G.711/ G.726 Justification: Reputed make will have anyone as an option only and which will meet the requirement.	Clause modified as " Audio : Full duplex, line in and line out, G.711 / G.726"

360	2	5.1.2.9	17	75	Local storage : microSDXC card 128GB (Class 10) or better In the event of failure of connectivity to the central server the camera shall record video locally on the SD card automatically. After the connectivity is restored these recordings shall be automatically merged with the server recording such that no manual intervention is required to transfer the SD card Based Recordings to server.	Change : Surveillance Grade 3K Endurance SD Card 256GB or better In the event of failure of connectivity to the central server the camera shall record video locally on the SD card automatically. After the connectivity is restored these recordings shall be automatically merged with the server recording such that no manual intervention is required to transfer the SD card Based Recordings to server. Reason : This feature is called as ANR and can only be meaningful if the SD card supported is atleast 256 GB	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
361	18	5.1.2.9	18	76	Protocol : HTTP, HTTPS, FTP, RTSP, RTP, TCP, UDP, RTCP, DHCP, ONVIF Profile S & G	Change : IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL, ONVIF S, G, Q, T, NFS, SMB/CIFS, Reason : All mentioned protocols are mandatory for such application	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
362	18	5.1.2.9	23	76	Casing : NEMA 4X / IP-66 rated & IK 09	Change : IP67	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
363	2	5.1.2.9	24	76	Certification: UL / CE / FCC	Certification: UL (UL 60950-1), CE (EN 55024:2010+A1:2015, EN 61000-3-2:2014), FCC Please mention the sub standard required for the camera under these certificates to get the best quality products.	Clause to be read as "CE / FCC / UL / BIS certification"
364	2	5.1.2.9	24	76	Certification: UL / CE / FCC	Change : BIS, CE. Reason : BIS follows IEC 60950-1/ IS 13252-1 Electrical Safety Standards and UL also follow the same standards. Hence they are equivalent.	Clause to be read as "CE / FCC / UL / BIS certification"
365	2	5.1.2.10	3	76	All ports can auto-negotiate between 10Mbps/ 100Mbps/ 1000Mbps, half-duplex or full duplex and flow control for half-duplex ports.	All ports can auto-negotiate between 10Mbps/ 100Mbps/ 1000Mbps, half-duplex or full duplex and flow control for all ports. Flow control works only on Auto mode where both the ports negotiate to full duplex.	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
366	2	5.1.2.10	5	76	Support 8K MAC address	Please change this clause to " Support 32K MAC address" 8k scale is very less for L3 switches and even basic L2 switches support 16K today.	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
367	2	5.1.2.10	12	77	Dynamic Trunking protocol or equivalent	Please remove this clause as DTP is a proprietary protocol	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
368	2	5.1.2.10	14	78	Switch needs to have RS-232 console port for management via a console terminal or PC	Switch needs to have RS-232 or USB console port for management via a console terminal or PC RS-232 is obsolete and replaced by USB, all latest laptop and PCs doesn't support RS232, only support usb. Please give us an option to participate	Clause modified as "Switch needs to have RS-232 or USB console port for management via a console terminal or PC"
369	2	5.1.2.11	8	78	Brightness : 300 nits or better	Change : 500 nits or better. Reason : 500 nits is advisable, since there is ambient light in conference room and also to ensure that the peoples seated are able to view the display clearly.	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
370	2	5.1.2.11	10	78	Contrast Ratio : 1200:1 or better	Change : 5000:1 or better. Reason : Minimum 5000 Contrast is recommended ambient light in conference room and also to ensure that the peoples seated are able to view the display clearly. This being a CCTV driven project, user should have better contrast ratio flexibility to the levels of 5000:1 atleast	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
371	2	5.1.2.11	11	78	Connectors : DVI, HDMI, VGA	Change : HDMI x 3, RGB/VGA x 1, Audio x 1, PC slot x 1, RS232x1. Reason : More inputs allows more user to connect device for communication	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
372	2	5.1.2.11	20	78	Certification : CE, FCC	Change : BIS, CE. Reason : According to Govt of India guidelines BIS is the Mandatory requirement. Govt Lab test report is required to ensure smooth functionality in Indian Environmental conditions.	Clause to be read as "CE / FCC / UL / BIS certification"
373	2	5.2.1.1	26	83	Pay-as-you-go pricing	We do not understand this requirement for current application. Please ealaborate on this requirement	Clause Deleted

374	2	5.2.1.2		83	New Clause	We request to add below " Offered Storage should be an appliance model with both Hardware and Storage File system should be from single OEM. Commodity servers with 3rd party SDS solution will not be accepted 3PB capacity is a substantial capacity for managing and maintaining. Hence there are many opensource and SDS software available today, to avoid bidders proposing commodity hardware based solutions, we recommend adding this clause.	Minimum Specification are provided. Bidder is free to offer higher specification to meet RFP requirement
375	2	5.2.1.2		83	New Clause	OEM should have minimum 2 installation of over 6 PB of offered storage solutions for the safe city projects in India.	Tender Clause remains unchanged
376	2	5.2.1.2		83	New Clause	Storage should be offered with a CSI compliant plugin/driver to enable container orchestration, provision volumes and attach them to compute workloads Since 'support for docker containers' has been asked in compute (Page 80, Section 5.2.1.1, clause 19). And since Docker does not have native functionality of providing persistence or orchestration, therefore a driver/plugin is required by the storage vendor to enable the storage volumes to be mounted to the compute workloads (running inside the docker containers)	Minimum Specification are provided. Bidder is free to offer higher specification to meet RFP requirement
377	2	5.2.1.2	3	83	Controllers and Architecture- Storage Should be Fully Symmetric and fully distributed clustered Architecture written for Scale-Out Storage operations. Scale out storage should be configured with minimum 8 controllers of the same type Over all storage cluster should be upgradable to min 2 x numbers of Storage controllers /Storage nodes, 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. All storage nodes / controllers must be active for all Storage shares, contributing in performance and capacity of the system Storage Controllers should have Intel processors.	Request to please change and read the clause as "Storage Should be Fully Symmetric /Asymmetric and fully distributed clustered Architecture written for Scale-Out Storage operations. Scale out storage should be configured with minimum 8- dual controllers of the same type. Over all storage cluster should be upgradable to min 2 x numbers of Storage controllers /Storage nodes, 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. All storage nodes / controllers must be active for all Storage shares, contributing in performance and capacity of the system. Storage Controllers should have Intel processors." <u>Justification</u> - Every OEM has different storage architecture. The storage system architecture is based on Active-Active Symmetric or Asymmetric architecture. NetApp offers Active-Active Asymmetric architecture. Also, the Dual Controller architecture is sufficient to deliver performance and SLA for most of the workloads. Further these can be scaled as per the future requirement of the tender.Hence we request to specify dual controllers as the minimum configuration initially and scaling out as per the expansion and scalability of the requirement in future instead of from initial stage. Hence request to modify this clause for wider participation.	Specifications on Storage are indicative. Bidder may propose similar or higher specifications
378	2	5.2.1.2	4	84	The scale out storage must be configured with minimum 256GB globally coherent, DRAM based cache/memory.	Request to kindly change and read the clause as " The scale out storage must be configured with minimum 256GB globally coherent, DRAM based cache/memory." <u>Justification</u> - Globally Coherent cache is an OEM specific technology.Hence request you to kindly modify the clause for wider participation.	Specifications on Storage are indicative. Bidder may propose similar or higher specifications

379	2	5.2.1.2	5	84	The scale out storage should be offered with minimum 16 x 10Gbps SFP+ ports, and should be scalable to 2x the number of offered ports	Request you to kindly change and read the clause as "The scale out storage should be offered with minimum 48 x 10Gbps SFP+ ports, and should be scalable to 2x the number of offered ports for future scalability." <u>Justification</u> - Request you to kindly revise the clause for wider participation and also for better commercial benefit. The number of ports can be scaled as per the future requirements but can start with minimum ports offered.	Specifications on Storage are indicative. Bidder may propose similar or higher specifications
380	2	5.2.1.2	6	85	Storage cluster should have capability to support different kinds of disks tiers likes SSD, SAS, SATA/NL-SAS drives within single file system.	Request you to kindly change and read the clause as "Storage cluster should have capability to support different kinds of disks tiers likes SSD, SAS, SATA/NL-SAS drives within single file system." <u>Justification</u> : SATA drives are an obsolete technology. Hence request you to only consider NL-SAS,SAS and SSDs.	Specifications on Storage are indicative. Bidder may propose similar or higher specifications
381	2	5.2.1.2	7	85	<p>The Scale-Out Storage System should be able to protect the data against simultaneous three disks failure without any data loss and data unavailability.</p> <p>Scale-Out Storage should have self-optimizing architecture so the system does not require defragmentation, nor consistency check like "fsck" in the event of an ungraceful shutdown of the cluster to ensure higher uptime.</p> <p>All data should be striped across all storage controllers in proposed storage system, so that performance of all controllers can be utilized for all read and write operations.</p> <p>The backend internal connectivity between storage controllers /storage nodes should be using high performance Infiniband or 10 /40 GigE network with no single point of failure.</p> <p>The backend internal connectivity configured between Storage controllers / Storage nodes themselves and between storage controllers / nodes and disk controllers, if configured, should be redundant and there should be "No Single Point of Failure".</p> <p>Redundant and Hot replaceable modules: Controllers, Hard Disk Drive and power supplies (230V AC, 50 Hz.)</p> <p>The Complete multi- controller Storage System Solution should be fully redundant, configured in High Availability mode and should NOT have any Single Point of Failure (SPOF).</p>	<p>Request you to please change and read the clause as " The Scale-Out Storage System should be able to protect the data against simultaneous three disks . Justification failure without any data loss and data unavailability.</p> <p>Scale-Out Storage should have self-optimizing architecture so the system does not require defragmentation, nor consistency check like "fsck" in the event of an ungraceful shutdown of the cluster to ensure higher 99% uptime.</p> <p>All data should be striped across all storage controllers in proposed storage system, so that performance of all controllers can be utilized for all read and write operations.</p> <p>The backend internal connectivity between storage controllers /storage nodes should be using high performance Infiniband or 10 /40 GigE network with no single point of failure.</p> <p>The backend internal connectivity configured between Storage controllers / Storage nodes themselves and between storage controllers / nodes and disk controllers, if configured, should be redundant and there should be "No Single Point of Failure".</p> <p>Redundant and Hot replaceable modules: Controllers, Hard Disk Drive and power supplies (230V AC, 50 Hz.)</p> <p>The Complete multi- controller Storage System Solution should be fully redundant, configured in High Availability mode and should NOT have any Single Point of Failure (SPOF)." <u>Justification</u> : The clause mentions a specific OEM technology offered. Various OEMs offer various technologies for maintaining a self-optimised architecture and uptime. Hence request you to</p>	Specifications on Storage are indicative. Bidder may propose similar or higher specifications
382	2	5.2.1.2	8	86	Scale out storage should be configured with 3 PB usable capacity with triple disk failure protection, using equal to or less than 12T	Is this scaling required for DR also?	Yes

383	2	5.2.1.2	8	86	<p>Scale out storage should be configured with 3 PB usable capacity with triple disk failure protection, using equal to or less than 12TB NL-SAS/SATA HDD.</p> <p>The storage should be scalable upto 5x the capacity as a single file system and a single global namespace.</p>	<p>Request you to please change and read the clause as "Scale out storage should be configured with 3 PB usable capacity with triple disk failure protection, using equal to or less than 12TB NL-SAS/SATA HDD. The storage should be scalable upto 5x the capacity as a single file system and/or a single global namespace." , <u>Justification</u> : SATA drives are an obsolete technology. Hence request you to only consider NL-SAS drives. Also, Any one of either single file system or single global namespace should be considered. Considering both the options together makes the clause OEM specific. hence request you to kindly change the clause to make it more generic and for wider participation.</p>	<p>Specifications on Storage are indicative. Bidder may propose similar or higher specifications</p>
384	2	5.2.1.2	9	87	<p>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.</p> <p>Storage solution should enable linear scalability of performance and capacity (ie X TB increase in capacity should lead to Y GBps increase in performance)</p> <p>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 autobalance should be done with low priority avoiding any impact to client performance.</p> <p>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.</p> <p>Storage file system shall not require metadata performance tuning.</p>	<p>request you to kindly change and read the clause as "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.</p> <p>Storage solution should enable linear scalability of performance and capacity (ie X TB increase in capacity should lead to Y GBps increase in performance)</p> <p>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 autobalance. The balancing should be done with low priority avoiding any impact to client performance.</p> <p>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.</p> <p>Storage file system shall not require metadata performance tuning. <u>Justification</u> : The linear scalability formula mentioned in the clause makes the system/solution loose its flexibility when the scalability for future is considered. As the number of controllers would increase in for future expansion, maintaining the mentioned linear formula would not favor a maintainance in performance. Also, it would result in expensive upgrades to maintain both. various OEMs offer different mechanism to maintain a rebalance across nodes . Hence request you to kindly modify the clause and make it more generic as various OEMs offer various technologies to maintain a linear scalability of performance and capacity and balancing of nodes. Also the objective of mentioning</p>	<p>Specifications on Storage are indicative. Bidder may propose similar or higher specifications</p>
385	2	5.2.1.2	9	88	<p>The system must be able to support policy based tiering to different storage tiers with Storage sub-system.</p>	<p>Kindly remove the clause. <u>Justification</u> : The specifications mentioned in th tender have a single type of drive mentioned for capacity. Hence the mentioned clause does not apply thus request you to please remove the clause.</p>	<p>Specifications on Storage are indicative. Bidder may propose similar or higher specifications</p>

386	2	5.2.1.2	15	89	The system must be able to support System Auditing for system as well as supported protocols.	Request that the clause be added to, as below: "The system must be able to support System Auditing for system as well as supported protocols. The storage should have capability of maintaining audit logs forever, till they are needed, and should not be automatically deleted" Malicious events are mostly not recognised immediately, but take time to surface By enabling a system which does not auto-delete audit logs, such malicious events can be traced and recognized whenever an investigation is held	Minimum Specification are provided. Bidder is free to offer higher specification to meet RFP requirement
387	2	5.2.1.3	35	94	The service should support encryption of data on volumes, disk I/O, and snapshots using industry standard AES-256 cryptographic algorithm	We assume this encryption is not required for video data, Please confirm	Yes, but the option to enable it must be there
388	2	5.2.1.3	43	95	The service should support encryption for data at rest using 256-bit Advanced Encryption Standard (AES-256) encryption to encrypt your data.	Kindly include Data encryption solution for data at rest in the BoQ line item	RFP scope is self-explanatory. Bidder can add extra line items which they feel is required for successful execution of this project
389	2	5.2.2	5.2.2	100	You have mentioned data centre and smart data centre	Is there any difference between smart data centre and data centre. If there is any difference, then which one the SI is supposed to choose?	Smart Data Centre is within CCC. It is called as Smart Data Centre because If Bidder Proposes Cloud Data Centre, then some minimum Configuration must be available to support Cloud DC. if Bidder Propose on Premises Data Centre than Smart Data Centre will be Data Centre.
390	2	5.2.2	5.2.2	100	Smart Data Centre Infrastructure (On-Premises or On-Cloud) – guideline	Data Centre to house Servers & critical IT equipments is envisioned in RFP but detailed specs for critical sub systems are left open. We recommend to choose the Integrated & Modular Data Center which are Scalable in nature & helps to achieve higher P.U.E. These solutions are the preferred solutions in majority of Smart Cities due to the advantages of Modularity/Scalability and entire responsibility lies with single vendor. And these rapid deployable solutions are also compatible to TIER III standards	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
391	2	5.2.2.1	3-Architecture	100	There switch should not have any single point of failure like switching fabric, support module, power supplies and fans etc. should have 1:1/N+1 level of redundancy.	Since, This is a Top of the Rack Switch, We request you to provide more details on the switching fabric Redundancy. ToR Switch are usually Fixed Port Switches and has a Single CPU Fabric in the Switch and hence Switch Fabric redundancy cannot be maintained. Request you to remove this clause from the RFP.	Should have adequate redundancy
392	2	5.2.2.1	5	102	<input type="checkbox"/> Switch should support Network Virtualization using Virtual Over Lay Network Switch should support VXLAN (RFC7348) and EVPN as draft-ietf-l2vpn-evpn-04 for supporting Spine - Leaf architecture to optimize the east - west traffic flow inside the data center or should support in the roadmap	Request you to remove VxLAN Function as this is mostly used in ISP/Cloud Data center	Specifications are indicative. Bidder may propose similar or higher specifications
393	2	5.2.2.1	5	102	<input type="checkbox"/> Switch should support Python, NetConf, XML etc.	Request you to remove " Switch should support Python, NetConf, XML etc" since this function is not useful in this TOR Switch and Also This function will restrict to one or two OEM only	Specifications are indicative. Bidder may propose similar or higher specifications
394	2	5.2.2.1	7	103	ISIS using MD5 Authentication	ISIS / equivalent using MD5 Authentication ISIS is an absolute protocol, the same functionalities are supported in OSPF	Specifications are indicative. Bidder may propose similar or higher specifications
395	2	5.2.2.1	7	103	Switch should support Multicast routing of minimum 8 way Equal Cost Multi Path load splitting. However, the SI shall do the required hardware sizing	Switch should support Multicast or Unicast routing of minimum 8 way Equal Cost Multi Path load splitting. However, the SI shall do the required hardware sizing Multicast traffic is always one sender to many recipients, we support ecmp on one to one routes. Please give us an option to participate	Specifications are indicative. Bidder may propose similar or higher specifications

396	2	5.2.2.2	9	107	Converged Network Adaptor with 50Gbps bandwidth (100Gbps bi- directional) which supports carving FlexNICs/vNIC and FlexHBA/vHBA per downlink port (minimum up to 8 sub-ports)	The current clause is vendor restrictive and it is a non-standard. Kindly change to CNA with 40 Gbps per port and 80 Gbps per blade.	Clause modified as "Converged Network Adaptor with minimum 40Gbps bandwidth (minimum 80Gbps bidirectional) which supports carving FlexNICs/vNIC and FlexHBA/vHBA per downlink port (minimum up to 8 sub-ports)"
397	2	5.2.2.2	10	106	Should be capable of supporting 32 Gbps Dual port Fiber Channel HBA internal to the Server Blade, having backward compatibility of 16Gb FC.	Dedicated HBA adapters, switches on the chassis are of traditional architecture that results in wasted resources and in-cable ports, cables, switches and management overheads. Virtual HBAs can be carved from the CNA ports itself and the bandwidth can be dynamically allocated at software level. Therefore, we kindly request to amend this with FC functionality on CNA.	Clause modified as "Should be capable of supporting 32 Gbps Dual port Fiber Channel HBA internal to the Server Blade, having backward compatibility of 16Gb FC / vendor with CNA can quote CNA cards"
398	2	5.2.2.2	11	106	Minimum of 2 Nos of x16 PCIe 3.0 based mezzanine/mLOM slots supporting Converged Ethernet, Ethernet and FC adapters.	CNA is a modern approach in Datacenter that simplifies IO and overall infrastructure. Therefore, we request to amend this clause to "2 x MLOM/Mezzanine with CNA"	Clause modified as "Minimum of 2 Nos of x16 PCIe 3.0 based mezzanine/mLOM with CAN slots supporting Converged Ethernet / Ethernet and FC adapters"
399	2	5.2.2.2	12	106	Blade Solution should support Gigabit out of band management port to monitor the servers for ongoing management, service alerting and reporting	Dedicated ports on the servers is a common feature in rack server. In blades the management happens at a chassis level and each blade is provided with a dedicated Virtual interface for management. Therefore, we request to amend this clause with physical or virtual management interface.	Clause modified as "Blade Solution should support Gigabit out of band management port (physical or virtual) to monitor the servers for ongoing management, service alerting and reporting"
400	2	5.2.2.3	6	109	Have the capability for installing industry standard flavors of Microsoft Windows, and Enterprise Red Hat Linux Oss as well as virtualization solution such as VMware.	Please remove the clause from blade chassis as this is a not a chassis feature and part of blade server.	Yes to be complied at server level
401	2	5.2.2.3	9	109	Two hot-plug/hot-swap, redundant 10 Gbps Ethernet or FCoE module with minimum 16 ports (cumulative), having Layer 2/3 functionality	Layer 3 traffic between chassis and blades to other elements happens outside the chassis. Such approaches are traditional and vendor restrictive. Therefore, please amend this clause to "Two hot-plug/hot-swap, redundant 10/25 Gbps FCoE modules with L2 functionality supported."	Clause modified as "Two hot-plug/hot-swap, redundant 10 Gbps Ethernet or FCoE module having Layer 2/3 functionality"
402	2	5.2.2.3	10	109	Two hot-plugs/hot-swap redundant 16 Gbps Fiber Channel module for connectivity to the external Fiber channel Switch and ultimately to the storage device	Onboard FC modules are from previous generation chassis approach. CNA provides a modern approach to dynamically create and manage both IP & FC on these same links. This is a vendor restricted spec. Please change to "Two hot-plug/hot-swap, redundant 10/25 Gbps FCoE modules with L2 functionality supported"	Clause modified as "Two hot-plugs/hot-swap redundant 16 Gbps Fiber Channel module for connectivity to the external Fiber channel Switch and ultimately to the storage device (or) Two hot-plug/hot-swap, redundant 10 Gbps Ethernet or FCoE module having Layer 2/3 functionality"
403	2	5.2.2.4	8	111	Solution should provide encrypted live migration capability across different virtualization management instances and versions and also provides seamless migration of individual VMs across different processor generation between different data-centers or from an on-premises data-center to the cloud and back, across clusters and during power cycles.	Do we have to migrate any existing data? If Yes then please mention volume and format module wise.	No
404	2	5.2.2.7	4	123	As per overall network architecture proposed by the bidder, the router should be populated with required number of LAN / WAN ports / modules, with cable for connectivity to other network elements.	Kindly specify the ports (including SFP's) and backplane capacity required for Core Router. It is recommended to have 1Tbps(FD) routers as core router Non-specified backplane capacity and interface details can lead to non optimized Core router, thus jeopardizing the total solution	Specifications are indicative. The bidder may provide solution to achieve the necessary compliance with similar features. The bidder may propose similar or higher specifications
405	2	5.2.2.7	9	123	The router should be scalable. For each slot multiple modules should be available.	The router should be scalable. For each slot multiple modules should be available. Please mention no-of free slots from day one	Bidder to Size according to RFP Scope
406	2	5.2.2.7	9	123	The chassis offered must have free slots to meet the scalability requirement of expansion of the project in the future.	The chassis offered must have free slots to meet the scalability requirement of expansion of the project in the future. Please mention no-of free slots from day one	Bidder to Size according to RFP Scope
407	2	5.2.2.7	9	124	Should support minimum 4 million ipv4 and 4 million ipv6 routes	Please modify Should support minimum 1 million ipv4 and 500K ipv6 routes	Clause modified as "Should support minimum 2 million ipv4 and 1 million ipv6 routes"

408	2	5.2.2.7	9	124	Should support minimum 4 million ipv4 and 4 million ipv6 routes	The scale asked for core routers is very high which will force the OEM's to proposed non optimised router. Thus kindly modify the clause as "Should support minimum 2 million ipv4 and 1 million ipv6 routes" The scale asked for core routers is very high which will force the OEM's to proposed non optimised router, thus increasing the overall cost of the project. Moreover the proposed scale look like favouring particular OEM.	Clause modified as "Should support minimum 2 million ipv4 and 1 million ipv6 routes"
409	2	5.2.2.7	9	124	Should support minimum 4 million ipv4 and 4 million ipv6 routes	Should support minimum 4 million ipv4 and 2 million ipv6 routes Please reconsider the routing entries requirement. Please give us an option to participate	Clause modified as "Should support minimum 2 million ipv4 and 1 million ipv6 routes"
410	2	5.2.2.7	9	124	Should support minimum 4 million IPv4 and 4 million IPv6 routes	Should support minimum 1 million IPv4 and 1 million IPv6 routes. 4 Million scale is very high for router with only 1G and 10G interfaces. For a DC of this scale even 650K routes will not used which is the global Internet routing table size. We request to change the scale to 1 Million for the optimum sizing of the box.	Clause modified as "Should support minimum 2 million ipv4 and 1 million ipv6 routes"
411	2	5.2.2.7	9	124	should support at least 4000 VRF/ MPLS VPN	should support at least 500 VRF/ MPLS VPN	Clause modified as "Should support at least 2000 VRF/ MPLS VPN"
412	2	5.2.2.7	9	124	should support at least 4000 VRF/ MPLS VPN	The scale asked for core routers is very high which will force the OEM's to proposed non optimised router. Thus kindly modify the clause as "should support at least 2000 VRF/ MPLS VPN" The scale asked for core routers is very high which will force the OEM's to proposed non optimised router, thus increasing the overall cost of the project. Also, generally In any given network, not more than 500 VRF are required. Moreover the proposed scale look like favouring particular OEM.	Clause modified as "Should support at least 2000 VRF/ MPLS VPN"
413	2	5.2.2.7	11	124	Bandwidth on demand for cost effective connection performance enhancement	Please remove this as this is applicable for ISP who is providing the Bandwidth and not for Core Router	Specifications are indicative. Bidder may propose similar or higher specifications
414	2	5.2.2.7	12	125	Remote access features	Please confirm If this is only for Remote Access of the device	Specifications are indicative. Bidder may propose similar or higher specifications
415	2	5.2.2.7	14	125	MD5 encryption for routing protocol <input type="checkbox"/> NAT <input type="checkbox"/> RADIUS Authentication <input type="checkbox"/> Management Access policy <input type="checkbox"/> IPSec / Encryption <input type="checkbox"/> L2TP	Nating / IPSec /Encription/L2TP features are required at Internet router/Firewall(in-fact I2TP feature is required only for BNG function). Thus kindly modify the clause as following <input type="checkbox"/> MD5 encryption for routing protocol <input type="checkbox"/> RADIUS Authentication <input type="checkbox"/> Management Access policy Duplication of feature will increase the cost of the routers . As a general practice these feature should be part of the firewall/internet router.	The functionality have to be met within the DC infrastructure
416	2	5.2.2.7	14	125	L2TP	Layer 2 Tunnelling Protocol (L2TP) is a legacy protocol with no encryption and is not support by next generation routing devices , The more advance protocol used is IPSEC. Request to relax the clause for leading OEM to participate	The functionality have to be met within the DC infrastructure
417	2	5.2.2.8	4	126	As per overall network architecture proposed by the bidder, the router should be populated with required number of LAN/WAN ports/modules, with cable for connectivity to other network elements.	Kindly specify the ports (including SFP's) and backplane capacity required for internet Router. It is recommended to have 30Gbps(FD) routers as internet router Non-specified backplane capacity and interface details can lead to non optimized Internet router, thus jeopardizing the total solution	Sizing as required by solution. SI Scope Specs are indicative. Bidder may provide a solution to achieve the necessary compliance with similar features

418	2	5.2.2.8	8	126	Should support minimum 1 million IPv4 and 1 million IPv6 routes	The scale asked for Internet routers is very high which will force the OEM's to proposed non optimised router. Thus kindly modify the clause as "Should support minimum 64K ipv4 and 32K ipv6 routes" The scale asked for Internet routers is very high which will force the OEM's to proposed non optimised router, thus increasing the overall cost of the project.	Sizing as required by solution. SI Scope Specs are indicative. Bidder may provide a solution to achieve the necessary compliance with similar features
419	2	5.2.2.8	9	126	Bandwidth on demand for cost effective connection performance enhancement	Please remove this as this is applicable for ISP who is providing the Bandwidth and not for Internet Router	Specifications are indicative. Bidder may propose similar or higher specifications
420	2	5.2.2.8	10	126	Remote access features	Please confirm If this is only for Remote Access of the device	Specifications are indicative. Bidder may propose similar or higher specifications
421	2	5.2.2.8	12	127	<input type="checkbox"/> MD5 encryption for routing protocol <input type="checkbox"/> NAT <input type="checkbox"/> RADIUS/AAA Authentication <input type="checkbox"/> Management Access policy <input type="checkbox"/> IPSec / Encryption <input type="checkbox"/> L2TP	IPSec/Encription/L2TP features are required at Firewall (in fact L2Tp feature is required only for BNG function). Thus kindly modify the clause as following <input type="checkbox"/> MD5 encryption for routing protocol <input type="checkbox"/> NAT <input type="checkbox"/> RADIUS/AAA Authentication <input type="checkbox"/> Management Access policy Duplication of feature will increase the cost of the routers . As a general practice these feature should be part of the firewall.	The functionality have to be met within the DC infrastructure
422	2	5.2.2.8	12	127	L2TP	Layer 2 Tunnelling Protocol (L2TP) is a legacy protocol with no encryption and is not support by next generation routing devices , The more advance protocol used is IPSEC. Request to relax the clause for leading OEM to participate	The functionality have to be met within the DC infrastructure
423	2	5.2.2.9	Firewall	127	Points that needs to be added	Firewall should support atleast 60,000 connections per second with App-id enabled ,As the ask is for NGFW, the new sessions/sec should be considered which is calculated by including L7 parameter..hence the change	Specifications are indicative. Bidder may propose similar or higher specifications
424	2	5.2.2.9	Firewall	127	Points that needs to be added	Firewall should support Nat66 (IPv6-to-IPv6), Nat 64 (IPv6-to-IPv4) & Nat46 (IPv4-to-IPv6) functionality ,With more and more application transitioning / supporting IPv6, it is key to success that perimeter FW should support all forms of translation so that users doesn't have to compromise on what can be accessed and what can not be	Specifications are indicative. Bidder may propose similar or higher specifications
425	2	5.2.2.9	Firewall	127	Points that needs to be added	Should support more than 3000 (excluding custom application signatures) distinct application signature as application detection mechanism to optimize security effectiveness and should be able to create 40 or more application categories for operational efficiency , Today most of the prominent Firewall vendor have NGFW solution that include feature like AVC. AVC plays a primary role in recognizing, reporting, and controlling the applications that are accessed	Specifications are indicative. Bidder may propose similar or higher specifications
426	2	5.2.2.9	Firewall	127	Points that needs to be added	Should be able to identify attacks based on Geo-location and define policy to block on the basis of Geo-location,Geo Location based policy help to control the traffic coming from unwanted geo location or country	Specifications are indicative. Bidder may propose similar or higher specifications
427	2	5.2.2.9	Firewall	127	Points that needs to be added	Should support Reputation- and category-based URL filtering offering comprehensive alerting and control over suspect web traffic and enforces policies on more than 280 million of URLs in more than 80 categories.More granular categories help organization define precise list of websites which their users are permitted to access	Specifications are indicative. Bidder may propose similar or higher specifications

428	2	5.2.2.9	Firewall	127	Points that needs to be added	Should support the capability of providing network-based detection of malware by checking the disposition of unknown files using SHA-256 file-hash or signature (update to be provided in 300 seconds) as they transit the network , Today most of the prominent Firewall vendor have NGFW solution that include Anti- APT for protection against known and unknown threats	Specifications are indicative. Bidder may propose similar or higher specifications
429	2	5.2.2.9	Firewall	127	Points that needs to be added	Proposed Firewall should not be proprietary ASIC based in nature & should be open architecture based on multi-core cpu's to protect & scale against dynamic latest security threats.ASIC would restrict introduction of new features and would lead to replacement of h/w thus increasing TCO.	Specifications are indicative. Bidder may propose similar or higher specifications
430	2	5.2.2.9	Firewall	127	Points that needs to be added	Firewall should be in Leader Quadrant of latest Gartners Enterprise Firewall report	Specifications are indicative. Bidder may propose similar or higher specifications
431	2	5.2.2.9	4	127	Minimum 6 x 10 Gbps interfaces	Considering scalability, Request to Change to " 16 x 10 Gbps interfaces with 8 Port are with Short Range Transceivers Populated. Should have support for 4 Nos. of 40GB for future upgrade"	Tender clause remains unchanged Sizing as required by solution. SI Scope
432	2	5.2.2.9	4	127	Interfaces : Minimum 6 x 10 Gbps interfaces	Interfaces : Minimum 8 x 10 Gbps interfaces out of which 2 interfaces should be 10G Copper interfaces (for Internet Firewall) and 16 x 1 Gig Ethernet interfaces and 10 x 10Gig SFP+ interfaces (for Intranet Firewall). Perimeter/Internet firewall should have atleast 10 interfaces for creating multiple zones and Internal / Intranet firewall should have multiple 1 Gig and 10 Gig interfaces to connect to server farm and other zones. Hence request change.	Tender clause remains unchanged Sizing as required by solution. SI Scope
433	2	5.2.2.9	5	128	Next Generation Firewall Throughput: minimum 20 Gbps for internet and 20 Gbps for intranet firewall"	Next Generation Firewall Throughput: minimum 10 Gbps for internet and 15 Gbps for intranet firewall. Next Generation Threat Prevention throughput with FW, IPS, Gateway AV, Anti Spyware and Application : minimum 5 Gbps for intranet firewall and 9 Gbps for intranet firewall. Internet firewall throughput should be less than intranet/server farm firewall. Also Threat Prevention throughput should be mentioned as there are multiple security engines which are activated along with the FW engine, so its suggested to have the threat prevention throughput along with the firewall throughput.	Sizing as required by solution. SI Scope
434	2	5.2.2.9	5	128	Concurrent connections: up to 100,000	Concurrent connections: up to 5,000,000 (for internet firewall) and upto 10,000,000 (for intranet firewall). 100,000 concurrent sessions is very less, as if we consider 500 users opening 50 sessions simultaneously then it results to 25,000 sessions. If we consider scalability of 4 times it easily reaches to 100,000 sessions. Moreover, this requirement is for a Safe City project where there will be multiple users opening sessions simultaneously, it might result to a collapse of the firewall. Hence request to change the concurrent session numbers.	Sizing as required by solution. SI Scope
435	2	5.2.2.9	5	128	Next Generation Firewall Throughput: minimum 20 Gbps for internet and 20 Gbps for intranet firewall	Please change the clause " Should support 12 Gbps of NGFW (FW, AVC) throughput real-world / production / Enterprise Testing performance / 64K HTTP / 1024B HTTP" , The thoroughput mentioned is a generic thoroughput..To ensure the proposed firewall is equipped to protect customer from today's advance threats it is critical to mention the throughput with Firewall, AVC feature running. Please specify if two firewall needs to be quoted Intranet and Internet?	Sizing as required by solution. SI Scope

436	2	5.2.2.9	5	128	Concurrent connections: up to 100,000 Simultaneous VPN tunnels: 2000	Considering scalability, Request to Change to "Concurrent connections: up to 20 Million Simultaneous VPN tunnels: 20,000 "	Sizing as required by solution. SI Scope
437	2	5.2.2.9	6	128	Concurrent connections: up to 100,000	Please change the clause to " 10 Million concurrent sessions with App-id enabled" As the ask is for NGFW, the concurrent sessions should be considered which is calculated by including L7 parameter..hence the change	Sizing as required by solution. SI Scope
438	2	5.2.2.9	7	128	IPSec, GRE, DES/3DES/AES	Please change the clause to " IPSec, GRE/SSL, DES/3DES/AES" GRE in a unsecured way of connecting , hence we support ssl/ipsec..Different OEM have different approach and hence requesting change without diluting functional requirement	Clause modified as "IPSec, GRE/SSL, DES/3DES/AES"
439	2	5.2.2.9	8	128	1Q, NAT, PAT, IP Multicast support, Remote Access VPN, Time based Access control lists, URL Filtering, support VLAN, Radius/ TACACS	Firewall should have all the fetures of a Next Generation Firewall capabilities where as only web filtering is asked for. Hence request to change as "IP Multicast support, Time based Access control lists, URL/Web Filtering with 250 million URLs, ICSCA Certified Firewall, Antimalware, NSS certified Intrusion Prevention Service, Application control, ICSCA certified IPSEC VPN, Traffic Shaping, IoT Detection Capabilities and APT Sandboxing Service"	Specs are indicative. Bidder may provide a solution to achieve the necessary compliance with similar features
440	2	5.2.2.9	9	128	QoS features like traffic prioritization, differentiated services/Preservation, and committed access rate. Should support for QoS features for defining the QoS policies	Please change the clause "QoS features like traffic prioritization, differentiated services/Preservation and rate limiting. Should support for QoS features for defining the QoS policies , Different OEM have different approach and hence requesting change without diluting functional requirement	Clause modified as "QoS features like traffic prioritization, differentiated services/Preservation. Should support for QoS features for defining the QoS policies"
441	2	5.2.2.9	10	128	Should Support SDK for IOT	Should Support IOT security SDK for IOT becomes specific to particular OEM, request change.	Clause modified as "Should Support SDK for IOT / REST API / IOT Security"
442	2	5.2.2.9	10	128	Should Support SDK for IOT	Please change the clause "Should support REST API for monitoring and config programmability" ,SDK is a kit that includes instructions that allow developers to create systems and develop applications	Clause modified as "Should Support SDK for IOT / REST API / IOT Security"
443	2	5.2.2.10	3	129	Should have an aggregate throughput of no less than 20Gbps Total Simultaneous Sessions – 20 Million	Please change the clause "Should support 15 Gbps of NGIPS throughput(IPS+ AVC) real-world / production / Enterprise Testing performance / 64K HTTP / 1024B HTTP. Total Simultaneous Sessions – 15 Million with App-id enabled" To ensure the proposed IPS is equipped to protect customer from today's advance threats it is critical to mention the throughput with IPS, AVC feature running. the new concurrent sessions should be considered which is calculated by including L7 parameter..hence the change	Sizing as required by solution. SI Scope
444	2	5.2.2.10	IPS	129	Points that needs to be added	Should be capable of dynamically tuning IDS/IPS sensors (e.g., selecting rules, configuring policies, updating policies, etc.) with minimal human intervention. Automatic tuning feature help maximize protection and sensor performance and significantly reduce, or virtually eliminate, the manual effort required to tune IPS sensors	Tender clause remains unchanged
445	2	5.2.2.10	IPS	129	Points that needs to be added	Should support more than 30,000 (excluding custom signatures) IPS signatures or more , Since IPS leverages signature to match against pattern, hence it is critical that solution should have high number of signature or extreme database	Tender clause remains unchanged
446	2	5.2.2.10	IPS	129	Points that needs to be added	Should be capable of automatically providing the appropriate inspections and protections for traffic sent over non-standard communications ports. Today attacker generally use non standard port for getting the attack completely undetected	Tender clause remains unchanged

447	2	5.2.2.10	IPS	129	Points that needs to be added	The detection engine should support capability of detecting and preventing a wide variety of threats (e.g., network probes/reconnaissance, VoIP attacks, buffer overflows, P2P attacks, etc.).	Tender clause remains unchanged
448	2	5.2.2.10	IPS	129	Points that needs to be added	Proposed Firewall should not be proprietary ASIC based in nature & should be open architecture based on multi-core cpu's to protect & scale against dynamic latest security threats.ASIC would restrict introduction of new features and would lead to replacement of h/w thus increasing TCO.	Tender clause remains unchanged
449	2	5.2.2.10 5.2.2.11	5.2.2.10 5.2.2.11	128 130	Generic	Kindly include IPS & SIEM with HA in the BoQ line item	RFP Scope is self-explanatory. Bidder can add extra line items which they feel is required for successful execution of this project
450	2	5.2.2.11	4	131	Request to this minimum requirement of an SIEM	Please add : "SIEM should have Auto-Categorization based on Device-types like Firewall, Router, switches and application etc to enable easy monitoring"	Specifications are indicative. Bidder may propose similar or higher specifications
451	2	5.2.2.11	4	131	Request to this minimum requirement of an SIEM	Please add " SIEM should have a Database for Configuration Management for storing the device, services and software details in built in the solution and it should not be a third party Database"	Specifications are indicative. Bidder may propose similar or higher specifications
452	2	5.2.2.11	4	131	Request to this minimum requirement of an SIEM	Please add " SIEM Should have file integrity Monitoring which will help risk monitoring at file level."	Specifications are indicative. Bidder may propose similar or higher specifications
453	2	5.2.2.11	4	131	Request to this minimum requirement of an SIEM	Please add " Should have the features of incident alerts categorize for Security, Performance, Availability and Configuration Audit for Network/Security devices/functionality and Endpoints which will make the proactive mitigation easy "	Specifications are indicative. Bidder may propose similar or higher specifications
454	2	5.2.2.11	4	131	The solution should be a physical appliance form factor with following components:	The entire solution is around Cloud. Hence request to change as " SIEM Solution can be Hardware appliance or VM/Software based solution to fit in Cloud Environment "	Clause modified as "The solution should be a physical appliance form factor / software solution with following components"
455	2	5.2.2.11	6	131	There should be no limitation on number of devices to be supported. Any addition in no. of devices should have no cost impact on department.	This is specific to OEM. All the SIEM Solutions by various OEMs will be licensed based on EPS and Devices. Hence request to change as " The SIEM Solution should have minimum 1000 device support"	SI to do the sizing according to its solution. SI to do provision for future scalability without any cost to MTC
456	2	5.2.2.11	7	131	SIEM & Log Monitoring solution should be from a different OEM than the Prevention Security solutions like F/W, IPS, HIPS, AV, DLP, and Encryption.	This is specific to OEM and to eliminate most of OEMs by putting the clause Hence request to change as " All SIEM solution components should from the same OEM ie. log collector, event correlation, historic logs reporting. It should support different 3rd party packet capture OEMs using PCAP format "	Clause modified as "SIEM & Log Monitoring solution should be from a same / different OEM than the Prevention Security solutions like F/W, IPS, HIPS, AV, DLP, and Encryption"
457	2	5.2.2.11	12	132	Correlation Engine appliance should be consolidated in a purpose build appliance and should handle 100,000 EPS.	This is specific to OEM. Request to delete	Clause 11 & 12 modified as "Overall SIEM Solution should handle 30,000 EPS"
458	2	5.2.2.11	16	132	Appliance should have minimum 128 GB RAM to provide optimal performance and should provide atleast 4 network interfaces onboard.	The entire solution is around Cloud. Hence request to change as " SIEM Solution can be Hardware appliance or VM/Software based solution to fit in Cloud Environment "	SI to do the sizing according to its solution
459	2	5.2.2.11	19	132	Should be able to provide complete packet-by-packet details pertaining to one or more session of interest including Session replay, page reconstruction, image views, artefact & raw packet and object extractions.	OEM Specific points. Pl. change to "Should be able to provide complete flow details pertaining to one or more session of interest including session details arte fact details &raw logs and attribute extractions"	Agreed. Specifications are indicative. The bidder may provide solution to achieve the necessary compliance with similar features. The bidder may propose similar or higher specifications
460	2	5.2.2.11	20	132	Should be able to filter the captured packets based on layer-2 to layer-7 header information.	OEM Specific points. Pl. change to "Should be able to filter the flow informations which is extracted from the netflow, sflow etc"	Agreed. Specifications are indicative. The bidder may provide solution to achieve the necessary compliance with similar features. The bidder may propose similar or higher specifications
461	2	5.2.2.11	21	132	Should provide comprehensive deep packet inspection (DPI) to classify protocols & application.	This is specific to OEM. To be deleted	Clause Deleted
462	2	5.2.2.11	23	133	The solution must be able to detect malicious payload in network traffic <ul style="list-style-type: none"> · Detect and reconstruct files back to its original type · Detect hidden or embedded files · Detect and flag out renamed files 	Highly OEM specific Clause. Request to delete	Clause Deleted

463	2	5.2.2.12	3	133	32x 100GbE QSFP28 Ports expandable to Support 10G/25G/40G/50G/100G Ports, Enterprise class advance Layer-3 image, standard rack mountable switch.	32x 100GbE QSFP28 Ports expandable to Support 40G/100G Ports, Enterprise class advance Layer-3 image, standard rack mountable switch. Please consider 40/100 as 100G is not backward compatible with 50/25/10G, as they have different form factor	Specifications are indicative. Bidder may propose similar or higher specifications
464	2	5.2.2.12	7	133	The switch should support minimum 64GB SSD Flash.	We request you to kindly change this clause to 32GB SSD Flash. Since, our Network Operating Systems is modular in Architecture, We need less SSD Flash Storage in the Switch to store the NOS Image.	Clause modified as "The switch should support minimum 32GB SSD / USB Flash
465	2	5.2.2.12	7	133	The switch should support minimum 64GB SSD Flash	The switch should support minimum 64GB SSD / USB Flash	Clause modified as "The switch should support minimum 32GB SSD / USB Flash
466	2	5.2.2.12	8	133	The switch should support minimum 16GB RAM/Processing memory	The switch should support minimum 8GB RAM/Processing memory DRAM is arrived based on the S/w & H/w Architecture	Clause modified as "The switch should support minimum 8GB RAM/Processing memory"
467	2	5.2.2.12	11	134	The switch should support minimum 6.4 Tbps of Switching Performance with 2400 Mpps of Forwarding rate and less than 900 nanosecond latency.	The switch should support minimum 6.4 Tbps of Switching Performance with 2000 Mpps of Forwarding rate and less than 1 microsecond latency. Please consider 2000 MPPS and 1 microsecond latency as they are supported to have non blocking architecture	Clause modified as "The switch should support minimum 6.4 Tbps of Switching Performance with 2000 Mpps of Forwarding rate and less than 1000 nanosecond latency"
468	2	5.2.2.12	11	134	The switch should support minimum 6.4 Tbps of Switching Performance with 2400 Mpps of Forwarding rate and less than 900 nanosecond latency.	Please change this clause to " The switch should support minimum 6.4 Tbps of Switching Performance with 2000 Mpps of Forwarding rate and less than 900 nanosecond latency."	Clause modified as "The switch should support minimum 6.4 Tbps of Switching Performance with 2000 Mpps of Forwarding rate and less than 1000 nanosecond latency"
469	2	5.2.2.12	12	134	Switch must support SDN Technologies like VXLAN, BGP-EVPN Natively without any change of Hardware & Software.	Request you to remove SDN Technologies like VXLAN, BGP-EVPN as VxLAN mostly used in ISP/Cloud Datacenter and SDN can be Scope of Router, Also SDN Solution is not used in Tender, Hence Request you to remove	Specifications are indicative. The bidder may provide solution to achieve the necessary compliance with similar features. The bidder may propose similar or higher specifications
470	2	5.2.2.12	15	134	Physical standards for Network Device Should support Ethernet (IEEE 802.3, 10BASE-T), Fast Ethernet (IEEE 802.3u, 100BASE-TX), Gigabit Ethernet (IEEE 802.3z, 802.3ab), Ten Gigabit Ethernet (IEEE 802.3ae)	Please delete it 1/10Gig is not supported in 100G switches as the form factor is different	Specifications are indicative. Bidder may propose similar or higher specifications
471	2	5.2.2.12	15	134	Physical standards for Network Device Should support Ethernet (IEEE 802.3, 10BASE-T), Fast Ethernet (IEEE 802.3u, 100BASE-TX), Gigabit Ethernet (IEEE 802.3z, 802.3ab), Ten Gigabit Ethernet (IEEE 802.3ae)	Please remove this as it's a 100G interfaces switch and 10Mbps, 100Mbps and 1Gbps standard will not be applicable.	Specifications are indicative. Bidder may propose similar or higher specifications
472	2	5.2.2.12	21	135	The switch should support minimum 160K MAC address and 4K Vlan ID and 802.1Q vlans	The switch should support minimum 98K MAC address and 4K Vlan ID and 802.1Q vlans Please consider 98k mac address capacity which can fulfill the deployment on DC	Specifications are indicative. The bidder may provide solution to achieve the necessary compliance with similar features. The bidder may propose similar or higher specifications
473	2	5.2.2.12	22	135	Switch must have the ability to offer complete hitless software upgrades with zero interruption to services or data forwarding. Functionality offering the same to be offered to address Switch firmware upgrades major/minor OS releases and patch upgrades	Please remove this since it's a fixed 1RU standalone switch and not a Chassis based switch with ISSU. Secondly the DC Core switches will be installed in Active Active configuration with no single point of failure .	Specifications are indicative. The bidder may provide solution to achieve the necessary compliance with similar features. The bidder may propose similar or higher specifications
474	2	5.2.2.12	23	135	Should support 802.1, Q-in-Q Vlan, Layer-2 Vlans, Layer-3 Vlans, Private Vlan, GARP VLAN Registration Protocol, Native Vlan, Voice Vlan etc.	Please change the clause to " Should support 802.1, Q-in-Q Vlan, Layer-2 Vlans, Layer-3 Vlans, Private Vlan etc" Voice VLAN is not supported on 100G DC switches.	Specifications are indicative. Bidder may propose similar or higher specifications
475	2	5.2.2.12	23	135	Should support 802.1, Q-in-Q Vlan, Layer-2 Vlans, Layer-3 Vlans, Private Vlan, GARP VLAN Registration Protocol, Native Vlan, Voice Vlan etc.	Should support 802.1, Q-in-Q Vlan / equivalent, Layer-2 Vlans, Layer-3 Vlans, Private Vlan, GARP VLAN Registration Protocol, Native Vlan, Voice Vlan etc. Q-inQ is a edge switch technology, we support VXLAN on DC switches	Specifications are indicative. The bidder may provide solution to achieve the necessary compliance with similar features. The bidder may propose similar or higher specifications
476	2	5.2.2.12	31	136	Device must support multicast in hardware supporting feature PIM-SM, MSDP, SSM, MLD, IGMP V1/V2/V3.	Device must support multicast in hardware supporting feature PIM-SM, MSDP, SSM or PIM DM, MLD, IGMP V1/V2/V3. We support PIM-DM which can be used to replace SSM	Specifications are indicative. Bidder may propose similar or higher specifications

477	2	5.2.2.12	34	136	Switch should support ACL Standard, Extended ACL and Time based ACL.	Please change the clause to " Switch should support ACL Standard/Extended ACL or Firewall filters and Time based ACL." Different OEM use various terminology for ACL. We request to change the clause for leading OEM to participate.	Specifications are indicative. The bidder may provide solution to achieve the necessary compliance with similar features. The bidder may propose similar or higher specifications
478	2	5.2.2.12	44	137	The switch should support Ring based technologies for faster recovery / convergence of network setup.	Please remove this as ring based technologies like ERPS is not supported on 100G DC switches.	Specifications are indicative. Bidder may propose similar or higher specifications
479	2	5.2.2.13	Functional Requirement	138	Server Load Balancing Mechanism - Cyclic, Hash, Least numbers of users - Weighted Cyclic, Least Amount of Traffic - NT Algorithm / Private Algorithm / Customizable Algorithm / Response Time	Every OEM use different load balancing terminologies and mechanisms to load balance the traffic based on different parameters. The load balancing methods mentioned in the clause are specific to SINGLE OEM only. Request you to change the clause to" - Cyclic, Hash, Least numbers of users/sessions or equivalent - Weighted Cyclic, Least Amount of Traffic or equivalent - NT Algorithm / Private Algorithm / Customizable Algorithm / Response Time or equivalent	Specifications are indicative. The bidder may provide solution to achieve the necessary compliance with similar features. The bidder may propose similar or higher specifications
480	2	5.2.2.13	additional Clause	138	"Offered solution should be EAL or NDPP (Network Device Protection Profile) certified under Common Criteria Program for security related functions or ICSA Lab certified."	This would ensure industry standard security for SLB which is a critical component deployed at DMZ (internet facing) of the network hence needs to be highly secure. Kindly include this clause.	Tender clause remains unchanged
481	2	5.2.2.13	additional Clause	138	"Proposed solution should be in Gartner Leaders/Challengers Quardrent for Web Application Firewall report published in any of last 5 year's report. Offered WAF product should be ICSA certified WAF."	This would ensure industry standards for WAF, which is a critical component in securing your application access. Kindly include this clause.	Tender clause remains unchanged
482	2	5.2.2.13	additional Clause	138	"Web Application Firewall solution should not be virtual WAF and it should not be a white labeled WAF running on third party hardware."	This would ensure industry standards for WAF, which is a critical component in securing your application access. This will also help to avoid any unknown vulnerabilities of the third party. Kindly include this clause.	Tender clause remains unchanged
483	2	5.2.2.13	1.9	139	The appliance must provide appliances with minimum 8 X 10 Gbps Short Range Fiber Ports 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, TOR switch has been asked with 40G interfaces also therefore for faster connectivity it is highly recommended to add 40G ports along with 1G and 10G in Load balancer and WAF appliance for future scalability. Request you to change the clause to" The appliance must provide minimum 8 X 1G, 8x10G Ports from day1 and 40G uplink ports for future scalability"	Tender clause remains unchanged
484	2	5.2.2.13	1.12	140	"OS should be certified by ICSA"	As per the guidelines from MoUD and MEITY, third party reports should not be used to restrict participation of vendors. Also for Make in India products, which is a new initiative, it is very difficult to get the products certified in such a short time. It is suggested to amend the clause as "Solution should be certified ICSA lab Certified/ Make in India product"	Agreed
485	2	5.2.2.13	2.1	140	Platform should have "L7" throughput of minimum 20 Gbps	The amount of L7 throughput is on lower side as compared to the SSL TPS and throughput sizing of the appliance. Request you to change the clause to " Platform should have "L7" throughput of minimum 35 Gbps "	Tender clause remains unchanged
486	2	5.2.2.13	2.4	140	Should have 20000 TPS, where TPS = Only one HTTP Transaction over each new SSL handshakes per second, without session reuse and using a 2048 bit key SSL Certificate.	The amount of SSL TPS is on a lower side as compared to the Appliance L7 and SSL throughput. Request you to change the clause to " SSL TPS of 35K with RSA 2k Keys and 20k with ECC (ECDSA P-256), where TPS = Only one HTTP Transaction over each new SSL handshakes per second, without session reuse and using a 2048 bit key SSL Certificate."	Tender clause remains unchanged

487	2	5.2.2.13	2.5	140	Should have SSL Throughput of minimum 40 Gbps	The amount of SSL throughput is on higher side as compared to the SSL TPS and L7 throughput sizing of the appliance. Request you to change the clause to "Should have SSL Throughput of minimum 20 Gbps"	Tender clause remains unchanged
488	2	5.2.2.13	2.6	140	Should have compression throughput of minimum 10 Gbps	The amount of compression throughput is on lower side as compared to the SSL TPS and L7 throughput sizing of the appliance. Request you to change the clause to "Should have hardware compression throughput of minimum 20 Gbps"	Tender clause remains unchanged
489	2	5.2.2.13	4.1	141	Should be an ICSA WAF 2.1 certified	As per the guidelines from MoUD and MEITY, third party reports should not be used to restrict participation of vendors. Also for Make in India products, which is a new initiative, it is very difficult to get the products certified in such a short time. It is suggested to amend the clause as "Solution should be ICSA lab Certified/ Make in India product"	Agreed
490	2	5.2.2.13	4.8	142	WAF should have capability to automatically analyze attacks like Brute Force and avail CAPTCHA on the fly to users to identify bot / scripted attacks	We request to rephrase "WAF should have capability to automatically analyze attacks like Brute Force and avail CAPTCHA on the fly to users to identify bot / scripted attacks or equivalent or better"	Specifications are indicative. Bidder may propose similar or higher specifications
491	2	5.2.2.13	5.6	143	Should provide historical graphical reporting for the last 30 days on appliance itself	We request to rephrase the same as "Should provide historical graphical reporting for the last 30 days on appliance itself or through management station where all logs are stored centrally"	Specifications are indicative. Bidder may propose similar or higher specifications
492	2	5.2.2.14	additional Clause	144	"Offered solution should be EAL or NDPP (Network Device Protection Profile) certified under Common Criteria Program for security related functions or ICSA Lab certified."	This would ensure industry standard security for LLB which is a critical component deployed at perimeter of the network hence needs to be highly secure. Kindly include this clause.	Tender clause remains unchanged
493	2	5.2.2.14	2	145	The solution must support stateful and stateless based protection.	Please remove this point. Solution can be either stateful or stateless and cannot be both. This is technically incorrect.	Clause modified as "The solution must support stateful based protection." Specifications are indicative. Bidder may propose similar or higher specifications
494	2	5.2.2.14	3	145	The Appliance should support throughput of 20Gbps for Link Load Balancing	Please specify the throughput required for DDoS as one mentioned is for Link Load Balancer	Clause is modified to "SI can provide single or separate appliance."
495	2	5.2.2.14	4	145	The appliance must provide appliances with minimum 8 X 10 Gbps Short Range Fiber Ports 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, TOR switch has been asked with 40G interfaces also therefore for faster connectivity it is highly recommended to add 40G ports along with 1G and 10G also for future scalability. Request you to change the clause to "The appliance must provide minimum 8 X 1G, 8x10G Ports from day1 and 40G uplink ports for future scalability. The proposed appliance should be multi-tenancy appliance to support multiple modules. LLB and DDOS must run on same OS and must be from same OEM"	Sizing as required by solution. SI Scope
496	2	5.2.2.14	6	145	The solution must support to Link Load Balancing along with DDoS mitigation together from same appliance	Kindly remove this clause as the heading is contradictory and confusing as solution can be provided separately or integrated one.	Clause is modified to "SI can provide single or separate appliance."
497	2	5.2.2.14	11	145	The Appliance should support 20 Million PPS DDoS mitigation anytime.	A DDOS appliance is sized based on its mitigation capacity. Sizing of DDOS appliance on PPS value is FAVOURABLE to single OEM. Therefore, we request you to delete this clause.	Specifications are indicative. Bidder is free to provide a similar or better solution
498	2	5.2.2.15	1	152	Platform	Please remove this entire section as it is a repeat of 5.2.2.13	Agreed

499	2	5.2.2.16	5.2.2.16	157	ICCC Application Software for Workflow & SOP Management	Specifications given for ICCS Application Software for Workflow & SOP Management from Page 157 to 169 contains the scope & functionality of Video management system(VMS) but not the ICCS Platform. This is favoring VMS OEM. Hence, we request you to kindly descope it from ICCS platform. ICCS Platform will integrate with VMS to fulfill the functional requirement.	Specifications are indicative. The bidder may provide solution to achieve the necessary compliance with similar features. The bidder may propose similar or higher specifications Clause renamed as Video Management System Specification
500	2	5.2.2.16	5.2.2.16	157	5.2.2.16 ICCS Application Software for Workflow & SOP Management	The specifications under this line item is for Video Management System and not for Command and Control Centre Application. We understand that the Command and Control Centre Specifications is under 5.1.1.1 Functional Specifications of the Application Software Page 34 of Vol II. Kindly confirm this. 5.2.2.16 ICCS Application Software for Workflow & SOP Management to be renamed as Video Management System Specifications. Please amend it.	Your Understanding is correct Clause renamed as Video Management System & Vehicle Tracking Software Specification
501	2	5.2.2.16	4.1	166	The system should be capable to track 5000 vehicles simultaneously. However, the present requirement is 1800 nos. of vehicles only.	Hope 1800 is a type error and actual VTS software quantity required is 2800 nos. Please confirm.	2500 is the quantity as per revised BoQ
502	2	5.2.2.16	4.2	166	The offered Vehicle Tracking System shall be able to view the progress of the vehicle on the entire route on real time basis. The data displayed shall include but not limited to position, direction and speed vehicle registration number, distance, halt report etc. as per requirement of MTC.	Can you confirm whether the "Geofencing" solution is required as part of the scope?	Yes it is in Bidder Scope
503	2	5.2.2.16	4.18	167	SMS gateway will also act as a fall back communication to receive details from the buses with GPS location, panic alert and health status information, which will be system generated from each mNVR.	Can you confirm whether the SMS Subscription charges will be Borne by the client?	No, it is in Bidder Scope
504	2	5.2.2.16	5.3	168	Client Licensing shall not be restricted to specific physical client Workstations (PC) and shall provide access from any Workstation within the network with required number of users simultaneous.	What is the expected number of users of the application?	Minimum 200
505	2	5.2.2.19	5.2.2.19	170	Suggested New Clause	Proposed integrated solution must 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. It will help to protect from Cyber Attack and will help to build another security layer.	Specifications given are minimum. Bidder is free to provide a better solution
506	2	5.2.2.19	3	171	The proposed appliance must be a converged, integrated appliance for long term data retention and disaster recovery	What are the Backup and Retention Policies? It is suggested to have minimum 12 months of retention. Daily for 06 Days, Weekly for 04 Weeks and Monthly for 12 Months.	Sizing as required by solution. SI Scope
507	2	5.2.2.21	5.2.2.21	174	Enterprise Management System (EMS)	EMS scope in RFP includes monitoring of Datacenter infrastructure devices like Network devices, Cameras, Server, UPS etc. So, our understanding is that, EMS Platform should be capable to create the incident ticket automatically and manually for both IT and Facility infrastructure assets of Datacenter. Please confirm if our understanding is correct?	RFP scope is self-explanatory. Bidder to do sizing as required by solution
508	2	5.2.2.21	5.2.2.21	174	Enterprise Management System (EMS)	Project scope includes multiple devices/systems and tools to be deployed at ICCS, Datacenter and field (Terminals, Depots). So, we believe that EMS solution should be capable to integrate with any third-party equipment's/solutions on industry standard protocols like IP/SNMP, API, Modbus-RTU, Modbus TCP/IP, BACnet, NO/NC, XML, SOAP etc. as per the future need to have single consolidated platform. Please confirm if our understanding is correct?	RFP scope is self-explanatory. Bidder to do sizing as required by solution

509	2	5.2.2.21	5.2.2.21	174	Request for addition	Impact analysis is one of the essential features of EMS to know the impact of one device on another devices. Request you to add the required functionality in specification as this assists in troubleshooting and knowing the root cause.	Specifications are indicative. Bidder is free to provide a similar or better solution
510	2	5.2.2.21	5.2.2.21	174	Request for addition	EMS shall have in-built CMDB to integrate the assets. A definite pre-integrated Inventory Management tool should be part of the EMS solution.	Specifications are indicative. Bidder is free to provide a similar or better solution
511	2	5.2.2.21.1		175	The solution must follow governance, compliance and content validations to improve standardization of service level contracts	The given requirement is an open end point. The authority is requested to confirm whether they require any specific solution standard to be followed.	Specifications are indicative. Bidder is free to provide a similar or better solution
512	2	5.2.2.21.1		175	The solution should support requirements of the auditors requiring technical audit of the whole system	The requirement of auditors needs to be specific as the OEM must be aware of what support is required from their end. Authority is requested to provide better clarity on this clause.	Specifications are indicative. The bidder may provide solution to achieve the necessary compliance with similar features. The bidder may propose similar or higher specifications
513	2	5.3.1.1	15	181	15. Power Supply (SMPS) : 700 W or better	15. Power Supply (SMPS) : 400 W or better As per specification, asked processor & Graphics together will not consume more than 300W. Request to mention as 400 W or better as it is an entry level Workstation Specification.	As per BEE standards maximum rated power of 700W has been sought, however any wattage lesser than 700W is considered greener hence acceptable.
514	2	5.3.1.2	14	182	IPv6 Ready from day one and dully certified	Please remove this clause ,This clause will restrict many OEM participate in this RFP	Specifications are indicative. Bidder is free to provide a similar or better solution
515	2	5.3.1.2	12	182	0°C to 55°C	0°C to 45°C Please consider the operating temperature 45 degree as the outside temperature wil not raise beyond that.	Agreed as this is within office envirnoment within MTC. Clause modified as 0°C to 45°C
516	2	5.3.1.2	12	182	Operating T temperature Range (Degree C) - 0°C to 55°C	Request you to change Operating T temperature Range (Degree C) - 0°C to 60°C and IP30 Rating for protection against Chennai Environment Condition	Clause modified as 0°C to 45°C
517	2	5.3.1.2	New Clause	182	Secure Boot – Switch should support boot image verification	To avoid switch operating system vulnerable to attack	Specifications are indicative. Bidder is free to provide a similar or better solution
518	2	5.3.1.2	New Clause	182	Dying gasp / last gasp feature On loss of power	Please add Dying gasp / last gasp feature On loss of power, Switches send messages (syslog, SNMP trap) informing of power loss. Saves time in resolving network issues	Specifications are indicative. Bidder is free to provide a similar or better solution
519	2	5.3.1.2	New Clause	182	EN 61000-6-2 Industrial Immunity ,EN 61000-6-4 Industrial Emissions	Please add EN 61000-6-2 Industrial Immunity & EN 61000-6-4 Industrial Emissions	Specifications are indicative. Bidder is free to provide a similar or better solution
520	2	5.3.1.2	New Clause	182	ARP inspection, IP source guard, guest VLAN, voice VLAN	Request to add Features ARP inspection, IP source guard, guest VLAN, voice VLAN which are used for enhancing the operational efficiency & network management	Specifications are indicative. Bidder is free to provide a similar or better solution
521	2	5.3.1.2	New Clause	182	Switch should support MLD Snooping for IPv6 multicast traffic	MLD Snooping for IPv6 multicast traffic which will be requirend for the future network design	Specifications are indicative. Bidder is free to provide a similar or better solution
522	2	5.5.2	5.5.2	185	The video surveillance data from various cameras deployed will be stored at the data centre and monitored at the Command & Control Centre. Storage of Video feeds should be for minimum 30 Days at the Data Centre and in NVRs with 1080p Resolution.	what is the FPS for recording at NVR located at depot & Terminals?	Kindly see Volume 2, Section 5.7 on Page 201
523	2	5.5.2	5.5.2	185	Storage of Video feeds should be for minimum 30 Days at the Data Centre and in NVRs with 1080p Resolution	There will be two parallel video streams from camera, one stream will be consumed in the NVR and the other will be stored via the Video Management System placed at Data Centre. Please confirm if the understanding is correct.	No, this is applicable for mNVR in Buses only and not for NVR in Depot & Terminals
524	2	5.5.3.1	4	185	Lens : 2.8~12 mm, AF automatic focusing and motorized zoom lens	Change : 2.7-13.5mm AF automatic focusing and motorized zoom lens	Specifications are indicative. Bidder is free to provide a similar or better solution

525	2	5.5.3.1	5	185	5. Shutter speed: Auto/Manual, 1~1/100000	Standard shutter speed is ranging from 1/3s to 1/100000s. Slow shutter beyond 1/3s is not commonly preferred. Shutter speed with 1s normally comes in High End Cameras. By amending Shutter speed, 1/3~1/100000 overall cost of the solution can be reduced. Thus request to amend the clause as - 'Shutter speed: Auto/Manual, 1/3~1/100000'	Clause modified as "Shutter speed: Auto/Manual, 1/3~1/100000"
526	2	5.5.3.1	6	185	6. Illumination: Colour: 0.002 Lux (F1.2, AGC ON) 0 Lux with IR on	0.01 Lux level is sufficient for this application. 0.002 Lux normally comes in high End Camera and including of such low lux value will increase the overall cost of the solution. Thus request to amend the clause as - Illumination: 'Color: 0.01 Lux @(F1.2, AGC ON) 0 Lux with IR on'	Clause modified as "Illumination: Colour: 0.002 Lux (F1.2~F1.6, AGC ON), 0 Lux with IR on" or better
527		5.5.3.1	6	185	6. Illumination: Colour: 0.002 Lux (F1.2, AGC ON) 0 Lux with IR on	Change : Colour: 0.001 lux, B/W: 0.0001 lux (at 30 IRE). Reason : We strongly recemend to alter the specifications to higher level as the lighting condition may vary from location to location. Hence in order to have homogenous view of all cameras we should adopt to Min. Illumination of Color: 0.001Lux@F1.2 and B/W: 0Lux with IR on	Clause modified as "Illumination: Colour: 0.002 Lux (F1.2~F1.6, AGC ON), 0 Lux with IR on" or better
528	2	5.5.3.1	6	185	Illumination: Colour: 0.002 Lux (F1.2, AGC ON), 0 Lux with IR on	Illumination: Colour: 0.002 Lux (F1.2~F1.6, AGC ON), 0 Lux with IR on	Clause modified as "Illumination: Colour: 0.002 Lux (F1.2~F1.6, AGC ON), 0 Lux with IR on" or better
529	2	5.5.3.1	8	186	IR Range: Up to 30m (98 ft) IR range	IR Range: Up to 50m (164 ft) IR range Long range IR will help to detect/ identify the long distance scene in night time also.	Minimum Specification is given. Bidder is free to provide a better solution
530	2	5.5.3.1	8	186	IR Range: Up to 30m (98 ft) IR range	Change : Up to 50m (164 ft) IR range. Reason : End user should define the IR distance to be covered (as a standard practice) and majority of cctv suppliers supply cameras with min. 50m IR	Minimum Specification is given. Bidder is free to provide a better solution
531	2	5.5.3.1	9	186	9. Defog: Digital Defog	Digital Defog feature is basically used to foggy environment. This feature basically comes in High End Cameras and PTZ. By amending Defog feature overall cost of the solution can be reduced. Thus, requesting to delete the clause.	Agreed
532	2	5.5.3.1	9	186	Digital Defog	Kindly ammend to Remove Digital Defog	Agreed
533	2	5.5.3.1	10	186	WDR : 120dB	Change : 140dB. Reason : You may also refer to all major CCTV suppliers in India and aborad, For outdoor environments it is always advisable to use True WDR from 140dB onwards	Minimum Specification is given. Bidder is free to provide a better solution
534	2	5.5.3.1	12	186	Video Compression : H.265, H.264	Change : H.265+,H.265,H.264 +,H.264. Reason : H265+ is the new standard video compression that provides even more improvement over H264 and H265. It provides improved bit reduction of 57% at 1080p and 64% of UHD or 4K compare to H264 and H.265 respectively. Since your requirement is to record all cameras at Full HD, it is even more important that we have H.265+ compression.	Minimum Specification is given. Bidder is free to provide a better solution
535	2	5.5.3.1	13	186	Resolutions and frame rates: 25/30 fps at 1920x1080 (1080p)	Change : 50/60 FPS at 1920x1080 (1080p). Reason : The potential for an incident might only represent 1%, or less, of the time a camera is recording. However, when a significant event does occur, it's better to record at a higher frame rate, because incidents such as a car accident, an altercation, or someone running away are usually only seconds long. Most of the industry todasy offers 50/60FPS cameras; hence our submission is to use 50/60FPS only	Minimum Specification is given. Bidder is free to provide a better solution

536	2	5.5.3.1	15	186	Analytics (in case of Edge) : Intrusion, cross line, motion detection, Scene Change,	Change : Intrusion Detection, Region Exit, Advanced Motion Detection, Camera Tampering Detection, Virtual Tripwire, Human Loitering, Human Detection, People Counting, Object Left, Object Removed. Reason : Cameras today are build with High processing chipsets and majority of the industry does provide camera with all mentioned analytics	Minimum Specification is given. Bidder is free to provide a better solution
537	2	5.5.3.1	15	186	Analytics (in case of Edge) - Intrusion, cross line, motion detection, Scene Change,	Can you confirm whether these are the only use cases envisioned for the Video Analytics (If it is required as part of scope of this RFP / Tender)	Analytics is part of Future Scope
538	2	5.5.3.1	16	186	IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP	Kindly ammend to Remove SNMP	Clause modified as "IPv4, IGMP, ICMP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x"
539	2	5.5.3.1	16	186	16. Protocols:IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP	IPv6 uses the Neighbor Discovery Protocol and its extensions such as Secure Neighbor Discovery, rather than ARP. Thus, requesting you to delete the ARP protocol and amend the clause as - 'Protocols:IPv4, IGMP, ICMP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP'	Clause modified as "IPv4, IGMP, ICMP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x"
540	2	5.5.3.1	16	186	Protocols : IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP	Change : IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL, ONVIF S, G, Q, T, NFS, SMB/CIFS. Reason : All mentioned protocols are mandatory for such application	Clause modified as "IPv4, IGMP, ICMP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x"
541	2	5.5.3.1	17	186	Onvif : ONVIF(S/G), API	Change : ONVIF S, G, Q, T	Minimum Specification is given. Bidder is free to provide a better solution
542	2	5.5.3.1	21	186	21. Ingress Protection: IP67, IK10	IK10 ratings are preferred for Dome cameras as its installed in indoor environment and we can reach the cameras with our hand so vandal protection with IK08 or IK10 rating is required. Bullet cameras are generally insalled at outdoor and at some height so, IP67 rating is preferred for bullet camera. Thus requesting to please ament the clause as - 'Ingress Protection: IP67'	Tender Clause remain unchanged
543	2	5.5.3.1	22	186	22. General Function: Watermark, IP Address Filtering, Tampering Alarm, Alarm input, Alarm output, Access Policy, ARP Protection, RTSP Authentication, User Authentication	IPv6 uses the Neighbor Discovery Protocol and its extensions such as Secure Neighbor Discovery, rather than ARP. Thus, requesting you to delete the ARP Protection and amend the clause as - General Function: Watermark, IP Address Filtering, Tampering Alarm, Alarm input, Alarm output, Access Policy, RTSP Authentication, User Authentication	Clause modified as: General Function: Watermark, IP Address Filtering, Tampering Alarm, Alarm input, Alarm output, Access Policy, RTSP Authentication, User Authentication
544	2	5.5.3.1	23	186	Local Storage : Micro SD, up to 128 GB	Change : Surveillance Grade 3K Endurance SD Card 256GB or better In the event of failure of connectivity to the central server the camera shall record video locally on the SD card automatically. After the connectivity is restored these recordings shall be automatically merged with the server recording such that no manual intervention is required to transfer the SD card Based Recordings to server. Reason : This feature is called as ANR and can only be meaningful if the SD card supported is atleast 256 GB	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
545	2	5.5.3.1	24	186	CE / FCC / UL (Non-Multilisted) / BIS certification	Kindly ammend to remove Non-multilisted	Clause to be read as "CE / FCC / UL / BIS certification"

546	2	5.5.3.1	24	186	Certification: CE / FCC / UL / BIS certification	Certification: CE (EN 55024:2010+A1:2015, EN 61000-3-2:2014), FCC, UL (UL 60950-1), BIS (IS 13252(PART 1):2010) certification Please mention the sub standard required for the camera under these certificates to get the best quality products.	Clause to be read as "CE / FCC / UL / BIS certification"
547	2	5.5.3.1	24	186	Certification: CE / FCC / UL / BIS certification	Change : BIS, CE. Reason : BIS follows IEC 60950-1/ IS 13252-1 Electrical Safety Standards and UL also follow the same standards. Hence they are equivalent.	Clause to be read as "CE / FCC / UL / BIS certification"
548	2	5.5.3.2	5.5.3.2	187	5.5.3.2 8 Channel NVR with minimum 30 Days Storage	The specifications are favouring NVR which is a proprietary hardware. Request the authorities to insist for non-proprietary hardware and mandate for Commercially off-the-shelf hardware	Minimum Specification is given. Bidder is free to provide a better solution
549	2	5.5.3.2	4	187	4. Resolution: 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF	960p, XGA, SVGA, D1 are not the standard resolution and such resolutions are not used much. In better way it can be mentioned should support all standard resolution from 8MP to QCIF resolution. Thus, request to amend the clause as - 'Resolution: All standard resolution from 8MP to QCIF resolution'.	Clause modified as "All Standard resolution from 8MP to CIF resolution"
550	2	5.5.3.2	4	187	4. Resolution: 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF	Change : 8MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF	Clause modified as "All Standard resolution from 8MP to CIF resolution"
551	2	5.5.3.2	5	187	Compression: H.265 / H.264	H.265 will save almost 50% storage & bandwidth as compared to H.264 so request you ask for both compression support.	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
552	2	5.5.3.2	5	187	Compression : H.265 / H.264	Change : H.265+, H.265, H.264 +, H.264. Reason : H265+ is the new standard video compression that provides even more improvement over H264 and H265. It provides improved bit reduction of 57% at 1080p and 64% of UHD or 4K compare to H264 and H.265 respectively. Since your requirement is to record all cameras at Full HD, it is even more important that we have H.265+ compression.	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
553	2	5.5.3.2	6	187	Incoming Bandwidth : 45Mbps	Change : 80Mbps. Reason : An incoming bandwidth of 80 Mb/s is pretty standard among smaller standalone NVRs. Converted to camera terminology, this means the NVR has 80,000 Kb/s of usable bandwidth on that NVR. If your 2 megapixel cameras are using 10,000 Kb/s apiece, then you'll be able to have as many as eight of them, while maintaining those cameras' highest recording capabilities. Whether the highest available frame rate of your camera is 50fps or 60fps, you'll be able to achieve that in this scenario.	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
554	2	5.5.3.2	6	187	Incoming Bandwidth: 45Mbps	Incoming Bandwidth: 160Mbps Higher bandwidth support will help in fast communication specially during multiple sessions.	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
555	2	5.5.3.2	7	187	7. Local Display: 1 x HDMI, 1 x VGA, simultaneously output different content	For 8 channel NVR, 1 video out is sufficient for viewing all 8 channels properly. Simultaneous output with different contents usually comes in High End NVR where number of channels are more and 1 display wont be enough for viewing all cameras Thus, requesting to delete the clause OR amend the clause as - 'Local Display: simultaneously output same content'	Clause modified as "1 x HDMI, 1 x VGA"

556	2	5.5.3.2	9	187	9. Multi-Screen Display: up to 4 screen simultaneously	NVR support 2 Video Output i.e. (HDMI and VGA) then how would it give 4 Screen Simultaneously. It will support 2 Screen Simultaneously through HDMI and VGA. <u>Requesting you to change the clause as:</u> up to 4 screen simultaneously	Clause Deleted
557	2	5.5.3.2	9	187	9. Multi-Screen Display: up to 4 screen simultaneously:	For 8 channel NVR, 1 display Screen is sufficient for viewing all 8 channels properly. 4 video output usually comes in High End NVR where number of channels are more and 1 display wont be enough for viewing all cameras Thus, requesting to delete the clause.	Clause Deleted
558	2	5.5.3.2	11	187	11. E-Map: Live Viewing in E-Map (V Station)	E-map feature is to provide graphic map information for users to overview entire CCTV layout. Enable users to upload digital maps, pinpoint the position of all connected IP cameras and GPI devices of a monitoring location or region to ensure efficient management. Which is specifically used in Mobile surveillance. Also, its a software feature. Thus, requesting to delete the clause.	Clause modified as "Live Viewing in E-Map "
559	2	5.5.3.2	11	187	E-Map - Live Viewing in E-Map (V Station)	Request you to Remove E-Map as this function can be use din centralized VMS software in datacenter, since NVR Deployed in Field , this function is not useful in NVR. Also V Station name is specific to one OEM hence request you to remove	Clause modified as "Live Viewing in E-Map "
560	2	5.5.3.2	11	187	E-Map : Live Viewing in E-Map (V Station)	The mentioned clause will be possible via Video management software which is based on graphical viewing capability and the camera location marking is also possible on such video managment software. Thus requesting kindly remove this clause from NVR part.	Clause modified as "Live Viewing in E-Map "
561	2	5.5.3.2	11	187	E-Map: Live Viewing in E-Map (V Station)	E-Map: Live Viewing in E-Map (V Station) V Station is OEM specific so request you to remove this.	Clause modified as "Live Viewing in E-Map "
562	2	5.5.3.2	12	187	Function : E-PTZ / Scheme (V Station) / Virtual channel	The mentioned clause is not possible to achieve by all OEM and E-PTZ / Scheme (V Station) / Virtual channel will not useful in current project requirements. Thus requesting kindly remove this clause from NVR part.	Clause modified as "E-PTZ / Scheme / Virtual channel"
563	2	5.5.3.2	12	187	Function - E-PTZ / Scheme (V Station) / Virtual channel	V Station name is specific to one OEM hence request you to remove	Clause modified as "E-PTZ / Scheme / Virtual channel"
564	2	5.5.3.2	12	187	Function: E-PTZ / Scheme (V Station) / Virtual channel	Function: E-PTZ / Scheme (V Station) / Virtual channel V Station is OEM specific so request you to remove this.	Clause modified as "E-PTZ / Scheme / Virtual channel"
565	2	5.5.3.2	18	187	SATA Ports : 2 x 3.5" HDD	Change : 1 x 3.5" HDD. Reason : Considering a resolution of 2MP, 8 camera at 50FPS, with 80% motion in 24X7 for 30days - consumption will be maximum 4TB hence we strongly suggest 1 Sata only (not 2 to avoid unnecessary increase in product price)	Tender Clause remain unchanged
566	2	5.5.3.2	21	187	Network Protocols : TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, SNMP, VSIP, UPNP, SMTP, IPv4	Change : IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL, ONVIF S, G, Q, T, NFS, SMB/CIFS. Reason : All mentioned protocols are mandatory for such application	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
567	2	5.5.3.2	21	188	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, SNMP, VSIP, UPNP, SMTP, IPv4, UPNP	Kindly ammend to Remove RTP/RTCP	Clause modified as "TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTSP, PPPoE, FTP, SNMP, VSIP, UPNP, SMTP, IPv4 "

568	2	5.5.3.2	23	188	Output Bandwidth: 64Mbps	Output Bandwidth: 90Mbps Higher bandwidth support will help in fast communication specially during multiple sessions.	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
569	2	5.5.3.2	26	188	26. Audio In / Out: 1 x RCA Line in / 1 x RCA Line out	For audio input and audio output it is not necessary that it should have RCA port as it depends on OEM to OEM, thus, request to ammend the clause to Audio In / Out: 1 In/ 1 Out	Clause modified as " Audio In / Out : 1 in / 1 out "
570	2	5.5.3.2	27	188	27. Alarm In / Out: 4 x Inputs / 2 x Outputs	For 8 Channel NVR, 1 Alarm output is sufficient to serve the purpose. Thus, requesting to amend the clause - as 'Alarm In / Out: 4 x Inputs / 1 x Outputs'	Tender Clause remain unchanged
571	2	5.5.3.2	27	188	Alarm In / Out - 4 x Inputs / 2 x Outputs	Request you to change "Alarm In / Out - 4 x Inputs / 1 x Output" Since 1 alarm output only available in 4/8 channel NVR and this can satisfy the requirement	Tender Clause remain unchanged
572	2	5.5.3.2	27	188	Alarm In / Out: 4 x Inputs / 2 x Outputs	Alarm In / Out: 8 x Inputs / 2 x Outputs More alarm inputs will help to get the more alerts by connecting multiple external devices and will help in more in auto surveillance.	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
573	2	5.5.3.2	28	188	28. Control :1 x RS485	RS-485 is typically used to connect external joystick to control the activity of cameras such as pan, tilt, rotate, and zoom operations, There is no PTZ camera and joystick requirement as of now and for future use USB based joystick is also available. Thus, requesting to remove the clause as overall cost of the solution can be reduced.	Tender Clause remain unchanged
574	2	5.5.3.2	29	188	29. USB: 2 x USB 2.0	USB 3.0 often referred to as SuperSpeed USB. Devices that adhere to the USB 3.0 standard can theoretically transmit data at a maximum rate of 5 Gbps. Connecting peripherals, upgrading software will be done at a faster rate with USB 3.0. So instead of 2x USB 2.0 its better to go with 1X USB 3.0. Thus, requesting to amend the clause as - USB: 1 x USB 3.0	Tender Clause remain unchanged
575	2	5.5.3.2	34	188	CE / FCC / UL (Non-Multilisted) / BIS certification	Kindly ammend to remove Non-multilisted	Clause to be read as "CE / FCC / UL / BIS certification"
576	2	5.5.3.2	34	188	CE / FCC / UL (Non-Multilisted) / BIS certification	Change : BIS, CE. Reason : BIS follows IEC 60950-1/ IS 13252-1 Electrical Safety Standards and UL also follow the same standards. Hence they are equivalent.	Clause to be read as "CE / FCC / UL / BIS certification"
577	2	5.5.3.2	34	188	Certification: CE / FCC / UL / BIS certification	Certification: CE (EN 55024:2010+A1:2015, EN 61000-3-2:2014), FCC, UL (UL 60950-1), BIS (IS 13252(PART 1):2010) certification Please mention the sub standard required for the camera under these certificates to get the best quality products.	Clause to be read as "CE / FCC / UL / BIS certification"
578	2	5.5.3.3	6	189	Switching Capacity -Non Blocking (Gbps) : 20 Gbps	For Full Duplex , Its should not more than 10Gbps	Clause modified as "minimum 10 Gbps"
579	2	5.5.3.3	11	189	0°C to 55°C	0°C to 45°C Please consider the operating temperature 45 degree as the outside temperature wil not raise beyond that.	Clause modified as 0°C to 45°C
580	2	5.5.3.3	11	189	Operating T temperature Range (Degree C) - 0°C to 55°C	Request you to change Operating T temperature Range (Degree C) - 0°C to 60°C and IP30 Rating for protection against Chennai Environment Condition	Clause modified as 0°C to 45°C
581	2	5.5.3.3	13	189	IPv6 Ready from day one and dully certified	Please remove this clause ,This clause will restrict many OEM partipate in this RFP	Specifications are indicative. Bidder is free to provide a similar or better solution

582	2	5.5.3.4	4	190	Input Voltage Range : 155 V to 280 V (at 100% load) 110-280 V (at less than 70 % load)	Considering deviation of +/- 70 V from the nominal 230 V , we request to consider 160 V to 300 V as the window for input voltage. Allowing Wider input voltage range of 100-300 V at half load condition is recommended. We request you to kindly consider the same.	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
583	2	5.5.3.4	4	190	Point no - 4 - Voltage Range 155-280 V on Full Load. Voltage Range 110-280 V on Less than 70% Load Frequency 50 HZ ±3 Hz	Considered 160 -300 V at Full load of 0.9 O/p PF & with 110 to 300Vac on 60% loading & input range settable in this range as per site	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
584	2	5.5.3.4	5	190	Point no - 5 - Output Voltage & Waveform 220V AC/ 230V	This shall be Pure Sinewave output with 220/230/240VAC with min 3 nos Indian 10A socket & one of the shall have programmable feature to control non-critical loads	Minimum specifications are provided. Bidder is free to provide a better or equivalent specification
585	2	5.5.3.4	6	190	Input & Output Power Factor (0.9 or higher)	For 1 kVA UPS having load less than 800 watts , UPS with 0.8 pf can support without any problem. Please suggest if total connected load will be less than 800 watts to design solution accordingly.	Bidder to Provide
586	2	5.5.3.4	7	190	Mains & Battery	Kindly share if there is any list of approved make for battery.	No Preferred List
587	2	5.5.3.4	10	190	Third Harmonic Distribution (3% linear , 5% non-linear) .	Harmonic parameter is usually defined considering all levels of harmonic including but not limited to third harmonic. We request if you can consider the total harmonic distortion and restrict value as <3% for linear load and <7% for non-linear load.	Specifications are indicative. Bidder is free to provide a similar or better solution
588	2	5.5.3.4	12	190	Point no - 12 -Overall efficiency min 90%	Consider this efficiency for UPS & including transformer it become 88%	Specifications are indicative. Bidder is free to provide a similar or better solution
589	2	5.5.3.4	12	190	Overall Efficiency > 90%	Please suggest if this can be given in Eco-Mode of operation.	Specifications are indicative. Bidder is free to provide a similar or better solution
590	2	5.5.3.4	14	190	Point 14 - Back-up - at least 2 hours	This shall be on SI load to save on rating/weight/prices on batteries as this will go in Cabinets. Also the charger shall have inbuilt capacity upto 14A for any future increase in Back-up if desired so at any or selected sites	30 minutes backup on full load is sufficient
591	2	5.5.3.4	16	190	Point no 16 - SO 9001:2008 & ISO 14001 certified	We request you to kindly add ISO 45001, TL 9000 & NABL Accredited OEM Factory Calibration lab in India for all UPS. And all UPS in entire project shall be from the same OEM. Kindly evaluate	Tender Clause remains unchanged
592	2	5.5.3.4	20	191	Galvanic Isolation : To be provided through inbuilt transformer	Modern day UPS systems are IGBT based which do not required isolation transformer. It was required with SCR based UPS system. Having a transformer not only reduces the overall efficiency bus also occupies more space in terms of footprint. We request you to kindly consider transformer free technology.	Specifications are indicative. Bidder is free to provide a similar or better solution
593	2	5.5.3.4	20	191	Point no - 20 -Galvanic Isolation - Inbuilt	This is not required in latest design of UPS available with reputed OEM and hence requested to deleted this	Specifications are indicative. Bidder is free to provide a similar or better solution
594	2	5.5.3.4	25	191	Operating Temperature : 0 to 50 deg	For optimum performance and long life of equipment , it is recommended to operate the system within 40 deg C of temperature. We request you to kindly accept the same.	Clause modified as 0°C to 40°C
595	2	5.5.3.4	25	191	Point no - 25 -Operating Temp - 0 to 50 degree	As per industry standard, 0 to 40 degree on full load with operating upto 50 degC on derating allowed only after 40 deg C. Kindly evaluate	Clause modified as 0°C to 40°C

596	2	5.6	5.6.2	192	<p>The core of system design for the Safe City Surveillance system for MTC Bus shall be the feeds from surveillance cameras (Three numbers) and Panic Button (Four Numbers) at least during the Bus operational hours. The cameras and panic buttons shall be placed as per MTC requirements. SI should ensure that proper protection is taken against power surges and ensure power stabilization to the surveillance equipment.</p> <p>The video surveillance data from various cameras deployed will be stored at the Bus mNVR for minimum 30 Days with minimum 720p Resolution. Connectivity to Data Centre will be via 4G with MPLS backhaul. System should be capable of viewing the Surveillance Feed from the Bus at the CCC as and when required. System to transmit all the Surveillance Feed inside the Bus at least 30 Seconds before the Panic Button is pressed and minimum 30 Seconds footage after Panic Button is pressed. SI can select Cameras capable with regional recording to reduce bandwidth requirement. The video feed transmitted should be received at the DC/DR/CCC with zero packet loss. In case of a need to download large volumes of video data, a mechanism should be provided to be able to connect using an authenticated device using Wi-Fi. Device authentication should be based on time-limited / multi-factor authentication (MFA). All downloads should be allowed only after necessary authorizations. SOP shall be defined by SI. Download of videos by plugging directly in to the mNVR should not be possible. All videos stored in the mNVR should be encrypted.</p>	<p>Can we look at providing an alternative solution for video surveillance data storage instead of provisioning mNVR in the bus, however we will ensure that the functional requirement (30 days with 720p resolution) would be met through the alternative solution. We would request you to incorporate the same in the corrigendum to avoid deviation request form during the submission of tender documents.</p>	<p>Technical Deviation is allowed only if the Bidder provide alternate solutions which maintains the same functionality as intended by the Authority. The same has to be proved during the Proof Of Concept. Tender Scrutiny Committee to decide whether to accept or reject the Bid</p>
597	2	5.6.2	5.6.2	192	<p>The video surveillance data from various cameras deployed will be stored at the Bus mNVR for minimum 30 Days with minimum 720p Resolution.</p>	<p>what is the FPS for recording at MNVR?</p>	<p>Kindly see Volume 2, Section 5.7 on Page 201</p>
598	2	5.6.2	5.6.2	193	<p>.... System to transmit all the Surveillance Feed inside the Bus at least 30 Seconds before the Panic Button is pressed and minimum 30 Seconds footage after Panic Button is pressed</p>	<p>Please confirm our below understanding is correct. 1. In normal operation , video data will be stored locally on NVR and only downloaded selectively via WI-FI 2. Only in case of PANIC button is pressed, the live video data will be transmitted to CCC for a period 30 seconds before & 30 seconds after panic event</p>	<p>Your Understanding is correct for Point 1 & 2 3. In addition, System should be capable of viewing the Surveillance Feed from the Bus at the CCC as and when required</p>
599	2	5.6.3.1	New Clause	193	<p>IR Range for Better Night Vision</p>	<p>IR Range of 50 meter with Smart IR or better</p>	<p>Minimum Specification is given. Bidder is free to provide a better solution</p>
600	2	5.6.3.1	New Clause	193	<p>Audio Features</p>	<p>Camera Should Have built in Microphone</p>	<p>Minimum Specification is given. Bidder is free to provide a better solution</p>
601	2	5.6.3.1	New Clause	193	<p>Camera Casing</p>	<p>Metal Body</p>	<p>Minimum Specification is given. Bidder is free to provide a better solution</p>
602	2	5.6.3.1	New Clause	193	<p>Accessories</p>	<p>M12 / Aviation Connectors and Cables suitable for Camera and MNVR to be provided</p>	<p>Minimum Specification is given. Bidder is free to provide a better solution</p>
603	2	5.6.3.1	New Clause	193	<p>Anti Vibration</p>	<p>As per EN50155 Standard for Various Mobile Vechicles and Railway Applications</p>	<p>Minimum Specification is given. Bidder is free to provide a better solution with better standards</p>
604	2	5.6.3.1	New Clause	193	<p>S/N Ratio</p>	<p>More than 45 dB</p>	<p>Minimum Specification is given. Bidder is free to provide a better solution</p>
605	2	5.6.3.1	New Clause	193	<p>Face Capture</p>	<p>Should Support face image capture</p>	<p>Minimum Specification is given. Bidder is free to provide a better solution</p>
606	2	5.6.3.1	New Clause	193	<p>Face Attributes</p>	<p>Should support 4 kinds of face attributes extraction : Age, Gender, Expression (Jolly, Calm, Surprise, Sad, Rage), Classes</p>	<p>Minimum Specification is given. Bidder is free to provide a better solution</p>
607	2	5.6.3.1	New Clause	193	<p>Smart Detection</p>	<p>Should support Line Crossing, People Counting, region people counting, Loiter filter</p>	<p>Minimum Specification is given. Bidder is free to provide a better solution</p>

608	2	5.6.3.1	New Clause	193	Triple Stream	Triple streaming with Primary Stream on 50/60 FPS @ 1920x1080 Secondary Stream on 30fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180) Tertiary Stream on 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240, 320x192, 320x180). Reason : Triple streams provide much more flexibility to users by allowing different data streams to be sent simultaneously. Each stream has independent purposes: • The first stream with high resolution and full frame rate can be used for main monitoring. • The second stream with lower resolution can be used for mobile monitoring. • The third stream with high, low, or dynamic resolution offers more flexible choices.	Minimum Specification is given. Bidder is free to provide a better solution
609	2	5.6.3.1	New Clause	193	Field of View	Horizontal Field of View 92°-32° Depth - 107°-D37° Vertical Field of View 51°-V18° with a deviation of ± 5% . Reason : End user should define expected Field of View and suggested field of view is as per industry standards	Minimum Specification is given. Bidder is free to provide a better solution
610	2	5.6.3.1	New Clause	193	Voice & Video-over-IP	SIP/VoIP Support	Minimum Specification is given. Bidder is free to provide a better solution
611	2	5.6.3.1	New Clause	193	Automatic Network Replenishment	Automatic Network Replenishment. Reason : This feature is must as already asked for in the Cameras	Minimum Specification is given. Bidder is free to provide a better solution
612	2	5.6.3.1	New Clause	193	Voice & Video-over-IP	SIP/VoIP Support	Minimum Specification is given. Bidder is free to provide a better solution
613	2	5.6.3.1	New Clause	193	In Built Analytics	Intrusion Detection, Region Exit, Advanced Motion Detection, Camera Tampering Detection, Virtual Tripwire, Human Loitering, Human Detection, People Counting, Object Left, Object Removed. Reason : Cameras today are build with High processing chipsets and majority of the industry does provide camera with all mentioned analytics	Minimum Specification is given. Bidder is free to provide a better solution
614	2	5.6.3.1	New Clause	193	Multiple Streams : Dual streaming with 2nd stream at minimum 720P at 30fps at H.264 individually configurable	Change : Triple streaming with Primary Stream on 50/60 FPS @ 1920x1080 Secondary Stream on 30fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180) Tertiary Stream on 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240, 320x192, 320x180). Reason : Triple streams provide much more flexibility to users by allowing different data streams to be sent simultaneously. Each stream has independent purposes: • The first stream with high resolution and full frame rate can be used for main monitoring. • The second stream with lower resolution can be used for mobile monitoring. • The third stream with high, low, or dynamic resolution offers more flexible choices.	Minimum Specification is given. Bidder is free to provide a better solution
615	2	5.6.3.1	4	193	Lens : 2.8mm lens with Minimum Angle of view. H:123° & V:68°	Change : 2.8mm lens with Minimum Angle of view Horizontal Field of View 94° Depth - 111° Vertical Field of View 50° with a deviation of ± 5% . Reason : End user should define expected Field of View and suggested field of view is as per industry standards	Bidder to recommend suitable lens along with justification

616	2	5.6.3.1	5	193	Min. Illumination : 0.002Lux@F1.2	Change : Colour: 0.001 lux, B/W: 0.0001 lux (at 30 IRE). Reason : We strongly recemend to alter the specifications to higher level as the lighting condition may vary from location to location. Hence in order to have homgenous view of all cameras we should adopt to Min. Illumination of Color: 0.001Lux@F1.2 and B/W: 0Lux with IR on	Minimum Specification is given. Bidder is free to provide a better solution
617	2	5.6.3.1	6	193	WDR up to 100 db	Change : upto 100dB/dWDR Justification : up to 100dB WDR can be achived via dWDR.	Tender Clause remain unchanged
618	2	5.6.3.1	9	194	Max. Image Resolution 1920x1080	What is the the minimum resolution required? 720p would be good enough for this application. Kindly please confirm	Tender Clause remain unchanged
619	2	5.6.3.1	10	194	Frame Rate : 30fps(1920x1080), 30fps(1280x960), 30fps(1280x720), 30fps(704x576)	Change : 30fps(704x576) shall be optional. Justification : As recording is done in 720p, 704x576 is not required.	Tender Clause remain unchanged
620	2	5.6.3.1	10	193	Frame Rate : 30fps(1920x1080), 30fps(1280x960), 30fps(1280x720), 30fps(704x576)	Change : Min 50 fps. Reason : The potential for an incident might only represent 1%, or less, of the time a camera is recording. However, when a significant event does occur, it's better to record at a higher frame rate, because incidents such as a car accident, an altercation, or someone running away are usually only seconds long. Most of the industry todasy offers 50/60FPS cameras; hence our submission is to use 50/60FPS only	Tender Clause remain unchanged
621	2	5.6.3.1	11	193	Video Compression : H.265 / H.264	Change : H.265+,H.265,H.264 +,H.264. Reason : H265+ is the new standard video compression that provides even more improvement over H264 and H265. It provides improved bit reduction of 57% at 1080p and 64% of UHD or 4K compare to H264 and H.265 respectively. Since your requirement is to record all cameras at Full HD, it is even more important that we have H.265+ compression.	Minimum Specification is given. Bidder is free to provide a better solution
622	2	5.6.3.1	13	194	IPv4, TCP, UDP, RTP, RTSP, RTCP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP	Kindly ammend to remove HTTPS	Clause modified as "IPv4, TCP, UDP, RTP, RTSP, RTCP, HTTP/HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP"
623	2	5.6.3.1	13	193	Protocol : IPv4, TCP, UDP, RTP, RTSP, RTCP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, SIP Protocol, UPnP, Bonjour, Onvif S,G,T	Change : IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL, ONVIF S, G, Q, T, NFS, SMB/CIFS. Reason : All mentioned protocols are mandatory for such application	Clause modified as "IPv4, TCP, UDP, RTP, RTSP, RTCP, HTTP/HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP"
624	2	5.6.3.1	14	194	Alarm I/O	Kindly ammend to remove this Value Alarm I/O and ammend to add Should support 4 kinds of face attributes extraction : Age, Gender, Expression (Jolly, Calm, Surprise, Sad, Rage), Glasses. Camera Should Have built in Microphone	Clause Deleted
625	2	5.6.3.1	14	194	14. Alarm I/O: 1/1	In Mobile solution, both Camera and MNVR are placed in the vehicle. So, Alarm input/output ports are preferred at the MNVR end. Thus, requesting to please delete the clause.	Clause Deleted
626	2	5.6.3.1	15	194	minimum 128 GB	Kindly ammend to remove this Value SD Card Support and ammend to add Should support Line Crossing, People Counting, region people counting, Loiter filter	Clause Deleted
627	2	5.6.3.1	15	194	Minimum specification table point no.15 SD card storage expected in Camera.	Normally in bus chances of SD card tampering is more. This should be removed from the requirements.	Clause Deleted
628	2	5.6.3.1	15	194	sr.no. 15. SD Card Support	all recording shall be stored in mNVR so separate SD support in IP camera shall be removed	Clause Deleted
629	2	5.6.3.1	16	194	FTP Upload/ SMTP Upload/ SD Card Record/ External Output	Kindly ammend to remove SD Card Record / External Output	Specifications are indicative. Bidder is free to provide a similar or better solution
630	2	5.6.3.1	16	194	sr.no. 16.Event Action	this specs shall be part of mNVR and not of IP camera, specs should be reomved	Specifications are indicative. Bidder is free to provide a similar or better solution

631	2	5.6.3.1	18	194	Power Supply - Automotive Grade Power Supply	Request you to clarify why Automotive Grade Power Supply is required, since the solution already call for POE Switch/POE Ports in NVR, Request you to change to "Automotive Grade Power Supply or POE Input"	Clause modified as : 12V DC ± 25% / PoE (IEEE802.3af)
632	2	5.6.3.1	18	194	18.Power Supply: Automotive Grade Power Supply	For Mobile camera, Power over Ethernet is preferred. As with same cable power and data can be transmitted. Installation and working will be smooth with PoE. Thus, requesting to please amend the clause as - '.Power Supply: POE (Power Over Ethernet)'.	Clause modified as : 12V DC ± 25% / PoE (IEEE802.3af)
633	2	5.6.3.1	19	194	19. Weather Proof: IP67, IK10	IP67 rating are required by cameras which are installed outdoor in hash evriment. IP66 waterproof level is able to withstand water with high-pressure during the test as well as in real life conditions. IK08 ratings are preferred for Mobile Dome cameras which is protected against 5 joules of impact i.e equivalent to the impact of a 1.7kg mass dropped from 300mm above the impacted surface. Thus requesting to please ament the clause as - 'Weather Proof: IP66, IK08'	Tender Clause remains unchanged
634	2	5.6.3.1	19	194	sr.no. 18.Power Supply, 19.Weather Proof & 20. Certification	this specs shall be changed to meet indian standard IS16833	Tender Clause remains unchanged
635	2	5.6.3.1	20	194	Certification :- CE / FCC / UL / BIS certification	As we are going to install camera in BUS its very mandotory that camera should support ARAI and EN50155 certificate.Kindly ammend clause as Certificate :- CE, FCC, UL, BIS certification,ARAI,EN50155.	Minimum Specification is given. Bidder is free to provide a better solution with better standards
636	2	5.6.3.1	20	194	Certification CE / FCC / UL / BIS certification	Change : NDAA shall be included Justification :to avoid products, which has cyber security threats.	Minimum Specification is given. Bidder is free to provide a better solution with better standards
637	2	5.6.3.2	5.6.3.2	194	5.6.3.2 GPS Device with Panic Buttons (4Nos) AS140 Complaint	Many OEM provides GPS device inbuilt with MNR. Separate specs must be required only for external GPS and for built-in GPS with MNVR it should be as per OEM. Thus request to please amend the clause as - 'GPS in-built/external with MNVR. If external than it should comply as per specs mentioned in RFP'.	Agreed. See Prebid Addendum 1
638	2	5.6.3.2	5.6.3.2	194	GPS Device with Panic Buttons (4Nos) AS140 Complaint	Mobile Network video Recorder has built in GPS module. Separate specs is not required for inbuilt GPS. We request you to kindly modify the clause as built in GPS module with MNVR as per OEM standard or External GPS device as per technical specification	Agreed. See Prebid Addendum 1
639	2	5.6.3.3	New Clause	195	Anti Vibration	As per EN50155 Standard for Various Mobile Vechicles and Railway Applications	Minimum Specification is given. Bidder is free to provide a better solution with better standards
640	2	5.6.3.3	New Clause	195	MNVR Casing	Aluminium Alloy	Minimum Specification is given. Bidder is free to provide a better solution
641	2	5.6.3.3	New Clause	195	OEM Certification	OEM Should Have CMMI5 certification	Tender Clause remain unchanged
642	2	5.6.3.3	5.6.3.3	195	Power Supply Automotive Grade Power Supply	Kindly requesting you to have Automotive grade cameras installed.	Minimum Specification is given. Bidder is free to provide a better solution
643	2	5.6.3.3	5.6.3.3	195	minimum 30 Days Storage	Can the requirement be reduced to 15days ? This would need more than 512 GB of memory. Please clarify	Tender Clause remains unchanged
644	2	5.6.3.3	5.6.3.3	195	4 Channel mobile NVR with minimum 30 Days Storage	The specifications are favouring NVR which is a proprietary hardware. We request to dilute NVR technical specifications and change them to any Commercially off-the-shelf available hardware	Minimum Specification is given. Bidder is free to provide a better solution
645	2	5.6.3.3	5.6.3.3	195	Channel mobile NVR with minimum 30 Days Storage	Kindly refer the specs as per IS16833, as the mentioned specs are of quite high for Bus application	Tender Clause remain unchanged
646	2	5.6.3.3	4	196	8MP(4K),1080p, UXGA,960p,720p, XGA,SVGA,D1,CIF,QCIF	Kindly ammend to remove 8MP(4K)	Clause Modified as "Resolution: All standard resolution from 1080P to CIF resolution"

647	2	5.6.3.3	4	196	4. Resolution: 8MP(4K),1080p, UXGA,960p,720p,XGA,SVGA,D1,CIF,QCIF	4K cameras are not preferred for mobile application. For mobile application, up to 4 MP resolution supported MNVR is provided by most of the OEM. Also, the mobile camera resolution asked in the RFP is of 2 MP. Thus, requesting to amend the clause as - 'Resolution: All standard resolution from 4MP to 4CIF resolution'.	Clause Modified as "Resolution: All standard resolution from 1080P to CIF resolution"
648	2	5.6.3.3	4	196	4. Resolution: 8MP(4K),1080p, UXGA,960p,720p, XGA,SVGA, D1,CIF,QCIF	In the RFP 2MP Camera is asked so why 8MP supported mobile NVR required. It is specific to few OEM and mobile NVR basically available in 2MP resolution with most of the OEMs. We are requesting you to remove 8MP resolution. Kindly amend the clause as : 1080p, UXGA,960p,720p, XGA,SVGA, D1,CIF,QCIF	Clause Modified as "Resolution: All standard resolution from 1080P to CIF resolution"
649	2	5.6.3.3	4	196	Resolution: 8MP(4K),1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF	Resolution: 8MP(4K) ,1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF Request you to remove 8MP (4K) resolution support as asked camera is of 2MP (1080p). Also UXGA, XGA, SVGA & QCIF are not standard resolutions so please remove these as these are limiting OEMs.	Clause Modified as "Resolution: All standard resolution from 1080P to CIF resolution"
650	2	5.6.3.3	8	196	Local Display, 1xHDMI,1xVGA,2xCVBS, Simultaneously output same content	In case of MNVR having HDMI and VGA connectivity for local display, CVBS output is not required. CVBS O/P requirement is contradictory, hence request to remove the same.	Clause Deleted
651	2	5.6.3.3	8	196	8. Local Display: 1xHDMI,1xVGA,2xCVBS, Simultaneously output same content	In 4 channel MNVR, 1 Video out port is sufficient to connect the display. Mostly VGA is preferred for strong vibration caused by moving vehicle. Also, 1 Screen is enough to serve the purpose of viewing 4channels. Thus requesting you to amend the clause as - 'Local Display: 1xHDMI/1xVGA/1xCVBS' and delete the clause - Simultaneously output same content	Clause Deleted
652	2	5.6.3.3	8	196	Local Display- 1xHDMI,1xVGA,2xCVBS, Simultaneously output same content	Composite video ports are old technology and not used in this solution and also Not added in Latest NVR in the market Hence request you to remove "2xCVBS."	Clause Deleted
653	2	5.6.3.3	8	196	8. Local Display: 1xHDMI,1xVGA,2xCVBS, Simultaneously output same content	Asked multiple video output is specific to few OEM and it will restrict the indian manufacturer to participate in the tender. Most of the OEM have HDMI/VGA and 1 x CVBS output which is sufficient for mobile NVR and available with most of the OEMs. In point no 45 you have already mentioned HDMI/VGA output which contradict both point no: 8 and 45. <u>So, Requesting you to amend the clause as :</u> HDMI/VGA , 1 x CVBS	Clause Deleted
654	2	5.6.3.3	8	196	Local Display: 1xHDMI, 1xVGA, 2xCVBS, Simultaneously output same content	Local Display: 1xHDMI/1xVGA, 1xCVBS, Simultaneously output same content Request you to accept the changes as per industry standard.	Clause Deleted
655	2	5.6.3.3	8	196	Local Display - 1xHDMI,1xVGA,2xCVBS, Simultaneously output same content	Change : 2xCVBS shall be optional Justification: HDMI & VGA can meet the requirement.	Clause Deleted
656	2	5.6.3.3	9	196	1,4,9,16	Kindly amend to remove 9,16	Clause modified as "Layout : 1,4"
657	2	5.6.3.3	10	196	Minimum specifications table point no.10 E-PTZ mentioned.	As per camera specification no any PTZ camera included for BUS. What is the use of E-PTZ functionality in NVR?	Clause Deleted
658	2	5.6.3.3	10	196	E-PTZ/Scheme/Polling	Kindly amend to remove E-PTZ/Scheme/Polling	Clause Deleted
659	2	5.6.3.3	11	196	1080P,UXGA,960p,720p, XGA,SVGA,D1,CIF,QCIF	Kindly amend change the value as 1920 x 1080, 1280 x 1024, 1280 x 720, 1024 x 768	Clause Modified as "Resolution: All standard resolution from 1080P to CIF resolution"
660	2	5.6.3.3	17	196	1080P,UXGA,960p,720p, XGA,SVGA,D1,CIF,QCIF	Need change the value as 1920 x 1080, 1280 x 1024, 1280 x 720, 1024 x 768	Clause Modified as "Resolution: All standard resolution from 1080P to CIF resolution"

661	2	5.6.3.3	17	196	Playback Resolution: 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF	Playback Resolution: 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF UXGA, XGA, SVGA & QCIF are not standard resolutions so please remove these as these are limiting OEMs.	Clause Modified as "Resolution: All standard resolution from 1080P to CIF resolution"
662	2	5.6.3.3	18	196	Playback -(Local Monitor & Client) 4 x 1080p@30fps	Change : 1x1080p Justification: As the mobile display resolution will be 1080p or below and recording is done in720p only	Tender Clause remain unchanged
663	2	5.6.3.3	19	196	Synchronize Playback 4 x 1080p@30fps	Change : 1x1080p Justification: As the mobile display resolution will be 1080p or below and recording is done in720p only	Tender Clause remain unchanged
664	2	5.6.3.3	20	197	Minimum specifications table point no.20 Function E-PTZ expected	As per camera specification no any PTZ camera included for BUS. What is the use of E-PTZ functionality in NVR?	Clause modified as "Slow forward/ Fast forward/ Loop/ Single frame"
665	2	5.6.3.3	21	197	Minimum specifications table point no.21 SATA HDD 2nos. expected.	Normally 1 SD card and one HDD configuration available for mNVR.	Tender Clause remain unchanged
666	2	5.6.3.3	21	197	SATA Ports 2x2.5"HDD	Please amend below clause: Can this requirement be removed as mNVR uses SD card enabled. SD card provide greater reliability unlike HDD which are prone to crashes during motion.	Tender Clause remain unchanged
667	2	5.6.3.3	22	197	G.711a/G.711u/ADPCM/ G.722/G.722.1c/ AAC-LC/G.726	Kindly amend to remove ADPCM/ G.722/G.722.1c/ AAC-LC/G.726	Minimum Specification is given. Bidder is free to provide a better solution
668	2	5.6.3.3	25	197	Alarm input/Video lost/Motion detection/Tampering/ Guard line/Defocus/ Scene change/ Enter guard area/ Exit guard area/ Object left/Object removal/ Gathering/Audio surge	Kindly amend to Remove Enter guard area/ Exit guard area/ Object left/Object removal/ Gathering/Audio surge	Minimum Specification is given. Bidder is free to provide a better solution
669	2	5.6.3.3	25	197	Service Alarm Triggers - Alarm input/Video lost/Motion detection/Tampering/ Guard line/Defocus/ Scene change/ Enter guard area/ Exit guard area/ Object left/Object removal/ Gathering/Audio surge	Request you to remove the alarms like Gathering, Guard line, which is not relevant to small area like Bus, Hence request you to modify as below "Service Alarm Triggers - Alarm input/Video lost/Motion detection/Tampering/Defocus/ Scene change/ Object left/Object removal"	Minimum Specification is given. Bidder is free to provide a better solution
670	2	5.6.3.3	25	197	25: Service Alarm Triggers: Alarm input/Video lost/Motion detection/Tampering/ Guard line/Defocus/ Scene change/ Enter guard area/ Exit guard area/ Object left/Object removal/ Gathering/Audio surge	Asked alarm trigger basically not applicable on mobile NVR because mNVR is used for moving vehicle and if we enable these trigger then you will get unusual event trigger. So, Requesting you to amend the clause as : Alarm input/Video lost/Motion detection	Minimum Specification is given. Bidder is free to provide a better solution
671	2	5.6.3.3	25	197	Service Alarm Triggers: Alarm input/Video lost/Motion detection/Tampering/ Guard line/Defocus/ Scene change/ Enter guard area/ Exit guard area/ Object left/Object removal/ Gathering/Audio surge	Service Alarm Triggers: Alarm input/Video lost/Motion detection/Tampering/ Guard line/Defocus/ Scene change/ Enter guard area/ Exit guard area/ Object left/Object removal/ Gathering/Audio surge Request you to remove these features as these belongs to camera not to NVR.	Minimum Specification is given. Bidder is free to provide a better solution
672	2	5.6.3.3	31	197	31.Network Protocols: TCP/IP, UDP,HTTP,DHCP,DNS/DDNS,RTP/ RTCP, RTSP, PPPoE, FTP,SNTP, VSIP,UPNP, SMTP ,IPv4,IPv6	VSIP protocol is the common protocol . Request to please delete the VSIP Protocol.	Clause Modified as "TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, PPPoE, FTP, UPNP, IPv4, IPv6"
673	2	5.6.3.3	31	197	TCP/IP, UDP,HTTP,DHCP,DNS/ DDNS,RTP/ RTCP, RTSP, PPPoE, FTP,SNTP,VSIP,UPNP,SMTP,IPv4,IPv6	Kindly amend to Remove RTP/ RTCP, RTSP, SNTP,VSIP, UPNP,SMTP	Clause Modified as "TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, PPPoE, FTP, UPNP, IPv4, IPv6"
674	2	5.6.3.3	34	198	Function NAT/ Socks5/Multiple network access/Packet loss recovery	Request you to Consider External 4G Router same like External Switch, in this case other equipment's like GPS tracker also can be connected in Single external 4G router and use single or Dual SIM card with Failover which can save the recurring cost, Request you to consider this and give option for Internal/External 4G router and the below function can be used in External router . "Function NAT/ Socks5/Multiple network access/Packet loss recovery"	Technical Deviation is allowed only if the Bidder provide alternate solutions which maintains the same functionality as intended by the Authority. The same has to be proved during the Proof Of Concept. Tender Scrutiny Committee to decide whether to accept or reject the Bid

675	2	5.6.3.3	37	198	Number of SIM card Slots Default 1,upto 2	Tracking device is SIM enabled (4G) and mNVR is integrated with it. So, it doesn't need an extra SIM. Can this clause be removed? Please confirm	Tender Clause remain unchanged
676	2	5.6.3.3	37	198	Number of SIM card Slots, Default 1,upto 2	In case of integrated ATD and MNVR we recommend to have Single SIM with dual profile. This will ease out data sagrigation on platform side, cunsumption of bandwith and also will save cost. We request you to accept this and ammend accordingly. However we comply to requirement of 2 SIM slots	Tender Clause remain unchanged
677	2	5.6.3.3	37	198	Number of SIM card Slots :- Default 1,upto 2	With help of one sim slot we can suffice requirement so kindly ammend clause as Number of SIM card Slots :- 1	Tender Clause remain unchanged
678	2	5.6.3.3	37	198	37.Number of SIM card Slots: Default 1,upto 2	Automatically switching between SIM is not possible. Also, All OEM mostly possess MNVR with 1 SIM. Thus, requesting to ammend the clause as - 'Number of SIM card Slots: 1' so that more OEM can participate as it will remain open for all OEM.	Tender Clause remain unchanged
679	2	5.6.3.3	37	198	Number of SIM card Slots - Default 1,upto 2	Request you to Consider External 4G Router same like External Switch, in this case other equipment's like GPS tracker also can be connected in Single external 4G router and use single or Dual SIM card with Failover which can save the recurring cost, Request you to consider this and give option for Internal/External 4G router and the below function can be used in External router . "Number of SIM card Slots - Default 1,upto 2"	Technical Deviation is allowed only if the Bidder provide alternate solutions which maintains the same functionality as intended by the Authority. The same has to be proved during the Proof Of Concept. Tender Scrutiny Committee to decide whether to accept or reject the Bid
680	2	5.6.3.3	37	198	37. Number of SIM card Slots Default 1,upto 2	2 SIM slot again specific to OEMs and it restrict the other reputed OEM because most of the reputed OEM have 1 SIM Slot. <u>Requesting to accept:</u> 1 SIM card Slot	Tender Clause remain unchanged
681	2	5.6.3.3	37	198	37. Number of SIM card Slots Default 1,upto 2	Change : Default 1 / upto 2 Justification: As the sim network change over cannot be done automatically, 2 sim option is not rellavnt	Tender Clause remain unchanged
682	2	5.6.3.3	38	198	3G/4G Frequency Band - FDD-LTE: B1/B2/B3/ B5/B7/B8 /B20 TDD-LTE:B38/B39/B40/B41 HSPA/UMTS:850/900/1800/1900/2 100MHzGS M/GPRS/EDGE:850/900/1800/190 0MHzTD- SCDMA: B34/B39 EVDO/CDMA: BC0/BC1	Request you to Consider External 4G Router same like External Switch, in this case other equipment's like GPS tracker also can be connected in Single external 4G router and use single or Dual SIM card with Failover which can save the recurring cost, Request you to consider this and give option for Internal/External 4G router and the below function can be used in External router . "3G/4G Frequency Band - FDD-LTE: B1/B2/B3/ B5/B7/B8 /B20 TDD-LTE:B38/B39/B40/B41 HSPA/UMTS:850/900/1800/1900/2 100MHzGS M/GPRS/EDGE:850/900/1800/190 0MHzTD- SCDMA: B34/B39 EVDO/CDMA: BC0/BC1"	Technical Deviation is allowed only if the Bidder provide alternate solutions which maintains the same functionality as intended by the Authority. The same has to be proved during the Proof Of Concept. Tender Scrutiny Committee to decide whether to accept or reject the Bid
683	2	5.6.3.3	38	197	FDD-LTE: B1/B2/B3/ B5/B7/B8 /B20 TDD-LTE:B38/B39/B40/B41 HSPA/UMTS:850/900/1800/1900/2 100MHzGS M/GPRS/EDGE:850/900/1800/190 0MHzTD- SCDMA: B34/B39 EVDO/CDMA: BC0/BC1	Kindly ammend to Supports 3G/4G	Tender Clause remains unchanged

684	2	5.6.3.3	39	198	Wireless - Wi-Fi, 3G/ 4G	Request you to Consider External 4G Router same like External Switch, in this case other equipment's like GPS tracker also can be connected in Single external 4G router and use single or Dual SIM card with Failover which can save the recurring cost, Request you to consider this and give option for Internal/External 4G router and the below function can be used in External router . "Wireless - Wi-Fi, 3G/ 4G" can be available in External router	Technical Deviation is allowed only if the Bidder provide alternate solutions which maintains the same functionality as intended by the Authority. The same has to be proved during the Proof Of Concept. Tender Scrutiny Committee to decide whether to accept or reject the Bid
685	2	5.6.3.3	39	198	Wi-Fi 802.11b/g/n/a/ac 2.4G/5G,Wi-FiAP	Request you to Consider External 4G Router same like External Switch, in this case other equipment's like GPS tracker also can be connected in Single external 4G router and use single or Dual SIM card with Failover which can save the recurring cost, Request you to consider this and give option for Internal/External 4G router and the below function can be used in External router . "Wi-Fi 802.11b/g/n/a/ac 2.4G/5G"	Technical Deviation is allowed only if the Bidder provide alternate solutions which maintains the same functionality as intended by the Authority. The same has to be proved during the Proof Of Concept. Tender Scrutiny Committee to decide whether to accept or reject the Bid
686	2	5.6.3.3	39	198	Wi-Fi: 802.11b/g/n/a/ac 2.4G/5G,Wi-FiAP	Wi-Fi: 802.11b/g/n/a/ac 2.4G/5G,Wi-FiAP Request you to keep only free Wi-Fi band that is 2.4GHz and also will get upto 150mbps with 802.11n in 2.4GHz.	Agreed
687	2	5.6.3.3	40	198	Location Technology - GPS	Change : Built-in GPS	Whether Built-in or external GPS, the VTS solution should comply to AIS 140 Standard
688	2	5.6.3.3	40	198	Location Technology - GPS	Already separate GPS Device is used inside MTC Buses hence request you to remove this GPS function	VTS Solution to comply with AIS 140 Standard
689	2	5.6.3.3	43	198	43. AudioIn/Out - 1x LineIn/1 x Mic in/1x Lineout	For NVR , Mic in is generally not required and is of much less use, instead audio input and outputs ports are required, thus, requesting to amend the clause to AudioIn/Out - 1x LineIn/1x Lineout	Tender Clause remains unchanged
690	2	5.6.3.3	44	198	44.Aviation Plug: 1x4 pin:2x CVBS output 1x4pin:Power supply for PTZ camera:	PTZ usually require more power for operation and practically its not possible to provide power to PTZ from normal MNVR. Thus requesting you to please delete the clause. Also, it's a network recorder so CVBS output is not required. If required in optional than, request to have only 1x CVBS output so that maximum OEM can participate. Thus, requesting to amend the clause as - '1x CVBS output' and delete the clause - 1x4pin:Power supply for PTZ camera	Clause modified as "4xpower and data input or 4x10pin or 4x PoE input 1x CVBS output Power input9~ 36VDC" or better
691	2	5.6.3.3	44	198	Aviation Plug 4x10pin:4x PoE input 1x4 pin:2x CVBS output 1x4pin:Power supply for PTZ camera 1x9 pin: Power input9~ 36VDC	Request you to clarify if we prefer to quote external POE switch solution then this Function is not applicable for NVR	Clause modified as "4xpower and data input or 4x10pin or 4x PoE input 1x CVBS output Power input9~ 36VDC" or better
692	2	5.6.3.3	44	198	Aviation Plug : 1x4 pin:2x CVBSoutput	Change : 4x10pin:4x PoE input/ 1x4 pin:2x CVBSoutput / 1x4pin:Power supply for PTZ camera/ 1x9 pin: Power input9~ 36VDC shall be optional Justification: As ptz cameras not used inside Bus for surveillance.	Clause modified as "4xpower and data input or 4x10pin or 4x PoE input 1x CVBS output Power input9~ 36VDC" or better
693	2	5.6.3.3	44	198	Aviation Plug: 4x10pin:4x PoE input 1x4 pin:2x CVBSoutput 1x4pin:Power supply for PTZ camera 1x9 pin: Power input9~ 36VDC	Aviation Plug/ Physical Port: 4x Power & Data input, 1x CVBSoutput, Power supply for PTZ camera, Power input9~ 36VDC Request you to change the specification to Aviation Plug/ Physical Port as every OEM has their own design of ports to get the same output.	Clause modified as "4xpower and data input or 4x10pin or 4x PoE input 1x CVBS output Power input9~ 36VDC" or better

694	2	5.6.3.3	44	198	Minimum specifications table point no.44. Power supply for PTZ camera expected.	As per camera specification no any PTZ camera included for BUS. What is the use of PTZ camera supply?	Clause modified as "4xpower and data input or 4x10pin or 4x PoE input 1x CVBS output Power input9- 36VDC" or better
695	2	5.6.3.3	45	198	Video Out: 1xHDMI / 1xVGA	Video Out: 1xHDMI / 1xVGA, 1xCVBS Request you to accept the changes as per industry standard.	Clause Modified as "1xHDMI / 1xVGA , 1xCVBS"
696	2	5.6.3.3	46	199	PoE Camera Input - 4 channel with M12/M23 connector	Request you to clarify if we prefer to quote external POE switch solution then this Function is not applicable for NVR	Since M12/M23 connector are rugged and vibration proof. Hence Tender Clause remains unchanged
697	2	5.6.3.3	46	199	PoE Camera Input: 4 channel with M12/M23 connector	Camera Power Input: 4 channel with M12/M23 connector Request you to accept the above change as "PoE" is a ethernet standard not a M12 standard.	Agreed
698	2	5.6.3.3	47	199	Alarm In/Out: 4x Input / 4 x Output	Alarm In/Out: 8x Input / 2 x Output More alarm inputs will help to get the more alerts by connecting multiple external devices and will help in more in auto surveillance. Also please change the alarm output as per the industry standard.	Clause modified as "4x Input / 2 x Output" or better
699	2	5.6.3.3	47	199	Alarm In/Out- 4x Input / 4 x Output	Request you to change "Alarm In / Out - 4 x Inputs / 1 x Output" Since 1 alarm output only available in 4/8 channel NVR and this can satisfy the requirement	Clause modified as "4x Input / 2 x Output" or better
700	2	5.6.3.3	47	199	4x Input / 4 x Output	Kindly ammend to Change as 8 ch / 3 ch	Clause modified as "4x Input / 2 x Output" or better
701	2	5.6.3.3	47	199	47. Alarm In/Out: 4x Input / 4 x Output	For 4 channel MNVR, 2 Alarm output is sufficient to serve the purpose. Thus, requesting to amend the clause - as 'Alarm In / Out: 4 x Inputs / 2 x Outputs' so that more OEM can participate as it will remain open for all OEM.	Clause modified as "4x Input / 2 x Output" or better
702	2	5.6.3.3	47	199	47. Alarm In/Out: 4x Input / 4 x Output	Both point No: 47 and 50 are contradict with each other, at one point asked 4 Alarm In/Out and other point asked 2 Alarm input/Output. Please confirm which we have to consider. <u>Our Suggestion to amend the clause with:</u> 8 Alarm Input and 3 Alarm Output	Clause modified as "4x Input / 2 x Output" or better
703	2	5.6.3.3	49	199	Antenna Wi-Fi Antenna interface, GNSS Antenna interface,4G Antenna interface	Request you to Consider External 4G Router same like External Switch, in this case other equipment's like GPS tracker also can be connected in Single external 4G router and use single or Dual SIM card with Failover which can save the recurring cost, Request you to consider this and give option for Internal/External 4G router and the below function can be used in External router . "Antenna Wi-Fi Antenna interface, 4G Antenna interface"	Technical Deviation is allowed only if the Bidder provide alternate solutions which maintains the same functionality as intended by the Authority. The same has to be proved during the Proof Of Concept. Tender Scrutiny Committee to decide whether to accept or reject the Bid
704	2	5.6.3.3	50	199	Control / IO - 1xRS485 / 1xRS232 (serial Interface), 2xDigital Input, 2xDigital Output	Request you to Consider External 4G Router same like External Switch, in this case other equipment's like GPS tracker also can be connected in Single external 4G router and use single or Dual SIM card with Failover which can save the recurring cost, Request you to consider this and give option for Internal/External 4G router and the below function can be used in External router . "1xRS485 / 1xRS232 (serial Interface)," also request you to remove 2xDigital Input, 2xDigital Output" as this function is available in NVR already	Technical Deviation is allowed only if the Bidder provide alternate solutions which maintains the same functionality as intended by the Authority. The same has to be proved during the Proof Of Concept. Tender Scrutiny Committee to decide whether to accept or reject the Bid

705	2	5.6.3.3	50	199	50. Control / IO: 1xRS485 / 1xRS232 (serial Interface), 2xDigital Input, 2xDigital Output	Both point No: 47 and 50 are contradict with each other, at one point asked 4 Alarm In/Out and other point asked 2 Alarm input/Output. Please confirm which we have to consider. <u>Our Suggestion to amend the clause with:</u> 8 Alarm Input and 3 Alarm Output	Clause modified as "1xRS485 / 1xRS232 (serial Interface)"
706	2	5.6.3.3	50	199	Control / IO 1xRS485 / 1xRS232 (serial Interface), 2xDigital Input, 2xDigital Output	Change : 1xRS485 / 1xRS232 (serial Interface)/2xDigital Input/ 2xDigital Output Justification: As ptz cameras not used inside Bus for surveillance.	Clause modified as "1xRS485 / 1xRS232 (serial Interface)"
707	2	5.6.3.3	51	199	51. USB: 2 Ports	In Mobile NVR 1 USB port is available with most of the OEM, 2 USB port is specific to few OEM. <u>So, Requesting you to amend the clause as :</u> 1 USB Port	Tender clause remains unchanged
708	2	5.6.3.3	49	195	Antenna : Wi-Fi, 4G & GPS Antenna interface	Change : Built-in Wi-Fi module, 4G module & GPS Antenna Module	Tender clause remains unchanged
709	2	5.6.3.3	54	199	54. Electrical Power: DC9~36V	Standard power supply range for Mobile NVR is 9-32V DC. Mostly all OEM have MNVR with power range from 9-32V DC. Thus, request to amend the clause as - 'Electrical Power: DC9~32V'	Tender clause remains unchanged
710	2	5.6.3.3	56	199	Certification :- CE / FCC / UL / BIS certification	As we are going to install camera in BUS its very mandatory that camera should support ARAI and EN50155 certificate.Kindly ammend clause as Certificate :- CE, FCC, UL, BIS certification,ARAI,EN50155.	Minimum Specification is given. Bidder is free to provide a better solution with better standards
711	2	5.6.3.4	12	200	IPv6 Ready from day one and dully certified	Please remove this clause ,This clause will restrict many OEM partcipate in this RFP	Specifications are indicative. Bidder is free to provide a similar or better solution
712	2	5.6.3.4	10	200	0°C to 60°C	0°C to 45°C Please consider the operating temperature 45 degree as the outside temperature wil not raise beyond that.	Tender clause remains unchanged
713	2	5.7.1.3.1	Last point in the bullet list	203	System should be able to be integrated with Event Management / Incident Management System.	Can you provide us existing system details for integration?	Bidder Must consider all the Future Scope like Video Analytics, PIS, ITMS, E-Ticketing System
714	2	5.7.1.4	5.7.1.4	203	Search using a indexed database of commonly available objects (vehicles, buildings, trees etc) & people (gender, type and colour of clothes, age, etc) in order to assist in easy retrieval of video footage based of these parameters. – smart search	Search using vehicles can be obtained but search based on buildings, trees are practically not possible to obtain. Thus, request you to please amend the clause as - 'Search using a indexed database of commonly available objects (vehicles etc) & people (gender, type and colour of clothes, age, etc) in order to assist in easy retrieval of video footage based of these parameters. – smart search'	Agreed
715	2	5.7.1.8	5.7.1.8	205	5.7.1.8 Other Miscellaneous Requirements * There shall be a provision for the third party audits once in 6 months.	Clarification required who will bear this third party audit cost. Also confirm what is the propose of this audit.	MTC will bear the cost
716	2	5.7.1.8	5.7.1.8	205	Surveillance camera feeds from national highway Toll plaza, private residence, hospital places of large public gathering, Etc. needs to integrated to CC solution	Reccomand to keep this client as an independant client monitoring system.	Agreed
717	2	5.7.1.9	5.7.1.9.1	205	1.VMS shall be used for centralized management of all field camera devices, NVRs, video servers and client users	For a seamless integration of NVR and Video Management System, the NVR hardware should be Non-Proprietary so that it really do not limit the NVR integration capability with any open system (VMS). Hence, we request you to mandate for Commercially off-the-shelf available hardware for NVR	Minimum Specification is given. Bidder is free to provide a better solution
718	2	5.7.1.9	5.7.1.9	205	5.7.1.9 Video Management System	The Software specifications are calling for an open Video Malmanagement System and the NVR specs are proprietary in nature. Hence for a seamless need of video transmission and integration, we request you to please dilute the NVR technical specifications and change them to any Commercially off-the-shelf available hardware	Minimum Specification is given. Bidder is free to provide a better solution

719	2	5.7.1.9	5.7.1.9	205	5.7.1.9 Video Management System	Request the authorities to kindly incorporate OEM PQ to ensure participation of reputed OEMs. 1.The Software OEM to have executed minimum 2 projects covering 8,400 IP channel licenses in each projects (of current size). 2.Video Management software should own exclusive IP rights for its technology and should have India based software customization and/or development centre to ensure localization and customization 3.Video Management & Analytics software should be operating system agnostic to support MS-Windows, Linux, Unix and other operating system in seamless manner and should be ISO:9001:2015 Certified for Video Management & Analytics Software Development Scope & Processes. 4.Video Management / Video Analytics software should be ONVIF G / S / T / 2.X standard compliant and should support for all necessary profiles so as to meet the requirements specified in the RFP. 5.The Software OEM should have CMMI certified. 6.VMS OEM to have ISO quality certifications for ISO 9001:2008, ISO/IEC 27001, ISO/IEC 27017:2013, Furnish valid copy of the same. 7.VMS OEM to have partner level accreditation / ISV certification from both Microsoft and Linux (Red Hat).	Tender clause remains unchanged
720	2	5.7.1.9.1	16	206	For Video Exports with VMS's Native Format along with Watermark and Encrypted with SSL / TSL technology, one can protect the video tampering and prove that the video is not tampered	Change : Video Tampering protection shall be done by OEM own encryption also. Justification: Most of the reputed OEMs has their own video tamper protection methods which might be better than mentioned spec.	Minimum Specification are provided. Bidder is free to offer higher specification to meet RFP requirement
721	2	5.7.1.9.5	8	209	Security Platform shall have strong security mechanism such as the use of advance encryption, digital certificates and claims-based authentication to ensure that only authorized personnel have access to critical information, prevent man-in-the-middle attacks, and that the data is kept private	It is understood that Digital certificate to be provided in solution. If yes, can you provide further specifications of it and include the number of certificates in BoQ line item.	RFP Scope is self-explanatory. Bidder can add extra line items which they feel is required for successful execution of this project
722	2	5.7.1.9.5	5	209	System should be able to be integrated with PSIM / Incident Management System	Can you provide us existing system details for integration?	Bidder Must consider all the Future Scope like Video Analytics, PIS, ITMS, E-Ticketing System
723	2	5.7.1.9.6	1	210	Synchronized Failover directory feature should be provided with the offered system to avoid the single point of failure. Also the system should sustain all its current operations i.e. recording, playback and live video even in the event of primary as well as failover directory failure. This functionality can either be loaded on any of the recording server or on a dedicated server. If offered software need dedicated server for this, then the same will be in contractor's scope. Specifications of failover administration server should be same as that of recording server except storage size.	In a mobile NVR solution with 3G/4G connectivity to CC, avoiding single point failure is practically possible. If the MNVR itself goes down then the cameras cannot be accessed in CCC, even though we are providing multiple business continuity at CC. So this point shall be diluted.	All the SLAs and penalties are only applicable for Cameras and NVR installed in Depots & Terminals Penalties on Cameras and mNVR inside Bus will be decided on case to case basis
724	2	5.7.1.9.6	4	210	The VMS shall allow for 2-way audio communication using amplifier/call station connected the IP cameras in the field without any need of audio cabling from camera to control room – applicable for locations with PA systems	This is meant for normal VMS solution at Depot and terminals only. The input of the amplifier will depend on the camera output which won't be sufficient for amplification and connect to a speaker. So this point shall be diluted.	Tender clause remains unchanged
725	2	6		210	None of the IT / Non-IT equipment proposed by the bidder should be End of Life product. It is essential that the technical proposal is accompanied by the OEM certificate in the format given in this RFP, where-in the OEM will certify that the product is not end of life product & shall support for at least 84 months from the date of Bid Submission.	The electronic components which constitute the IT equipment are prone to quick upgrades in technology which is beyond the control of OEM. Generally all electronic components support up to 5 years even the technology is replaced. Hence request authority to amend the end of support to 60 months from date of bid supply.	Agreed

726	2	6		211	All the hardware and software supplied should be from the reputed Original Equipment Manufacturers (OEMs). MTC reserves the right to ask replacement of any hardware / software if it is not from a reputed brand and conforms to all requirements specified in tender documents.	recomand to add OEM prequalification/approved makes. This will help to make a unified standard in solution and can create a healthy competattion, by avoiding China OEMs.	Preference to Make in India dated 4.06.2020 will be followed
727	2	7	7.2	212	# Milestone Payment 1. Solution Design Sign-off - 10% of CAPEX 2. Supply of all ICT & Non-ICT infrastructure for the Surveillance Solution Note: Minimum cumulative Bill Value against product supply shall not be less than INR 2 Crores. - 35% of CAPEX 3. Installation of all ICT & Non-ICT infrastructure for the Surveillance Solution - 35% of CAPEX 4. Unit Testing by System Integrator - 5% of CAPEX 5. Final Acceptance Testing - 5% of CAPEX 6. Solution stabilization & Go-Live - 5% of CAPEX 7. Quarterly Payments - Operations & Maintenance Phase for a period of 3 years - OPEX equally amortized across 12 quarters 8. 36th month – Project Closures Exit Management - Remaining 5% of CAPEX	The demolition and construction of CCC building requires considerable spend and effort. Also the capex cost and PBG will keep the SLA conditions prompt by the bidder. Considering these, request to amend the payment as below. # Milestone Payment 1. Solution Design Sign-off - 10% of CAPEX 2. Supply of all ICT & Non-ICT infrastructure for the Surveillance Solution Note: Minimum cumulative Bill Value against product supply shall not be less than INR 50 Lakhs. - 45% of CAPEX 3. Installation of all ICT & Non-ICT infrastructure for the Surveillance Solution - 30% of CAPEX 4. Unit Testing by System Integrator - 5% of CAPEX 5. Final Acceptance Testing - 5% of CAPEX 6. Solution stabilization & Go-Live - 5% of CAPEX 7. Quarterly Payments - Operations & Maintenance Phase for a period of 3 years - OPEX equally amortized across 12 quarters.	Tender clause remains unchanged
728	2	7 Payment Terms & Payment Schedule	7.2 Payment Schedule	212	7. Quarterly Payments - Operations & Maintenance Phase for a period of 3 years - OPEX equally amortized across 12 quarters	Requesting to change monthly payment instead of quarterly payment.	Tender clause remains unchanged
729	2	7 Payment Terms & Payment Schedule	7.2 Payment Schedule	212	8. 36th month – Project Closures Exit Management - Remaining 5% of CAPEX	Requesting to release this remaining 5% of capex payment on completing the milestone of Solution stabilization & Go-Live.	Tender clause remains unchanged
730	2	7.2 Payment Schedule		212	1. Solution Design Sign-off - 10% of CAPEX 2. Supply of all ICT & Non-ICT infrastructure for the Solution - 35% of CAPEX 3. Installation of all ICT & Non-ICT infrastructure for the Solution - 35% of CAPEX 4. Unit Testing by System Integrator - 5% of CAPEX 5. Final Acceptance Testing - 5% of CAPEX 6. Solution stabilization & Go-Live - 5% of CAPEX 7. Quarterly Payments - Operations & Maintenance Phase for a period of 3 years - OPEX equally amortized across 12 quarters 8. 36th month – Project Closures Exit Management - Remaining 5% of CAPEX	We request the following modification in the payment terms: 0. Interest free Mobilization Advance - 10% of CAPEX 1. Solution Design Sign-off - 10% of CAPEX 2. Supply of all ICT & Non-ICT infrastructure for the Solution - 45% of CAPEX on prorata basis 3. Installation of all ICT & Non-ICT infrastructure for the Solution - 20% of CAPEX on prorata basis 4. Unit Testing by System Integrator - 5% of CAPEX 5. Final Acceptance Testing - 5% of CAPEX 6. Solution stabilization & Go-Live - 5% of CAPEX 7. Quarterly Payments - Operations & Maintenance Phase for a period of 3 years - OPEX equally amortized across 12 quarters 8. 36th month – Project Closures Exit Management – Remaining 5% of CAPEX	Tender clause remains unchanged

731	2	7	7.2 Payment Schedule	212	<table border="1"> <thead> <tr> <th>Milestone</th> <th>% Payment</th> </tr> </thead> <tbody> <tr> <td>1. Solution Design Sign-off</td> <td>10% of CAPEX</td> </tr> <tr> <td>2. Supply of all ICT & Non-ICT infrastructure for the Surveillance Solution Note: Minimum cumulative Bill Value against product supply shall not be less than INR 2 Crores</td> <td>35% of CAPEX</td> </tr> <tr> <td>3. Installation of all ICT & Non-ICT infrastructure for the Surveillance Solution</td> <td>35% of CAPEX</td> </tr> <tr> <td>4. Unit Testing by System Integrator</td> <td>5% of CAPEX</td> </tr> <tr> <td>5. Final Acceptance Testing</td> <td>5% of CAPEX</td> </tr> <tr> <td>6. Solution stabilization & Go-Live</td> <td>5% of CAPEX</td> </tr> <tr> <td>7. Quarterly Payments - Operations & Maintenance Phase for a period of 3 years</td> <td>OPEX equally amortized across 12 quarters</td> </tr> <tr> <td>8. 36m months - Project Closures Exit Management</td> <td>Remaining 5% of CAPEX</td> </tr> </tbody> </table>	Milestone	% Payment	1. Solution Design Sign-off	10% of CAPEX	2. Supply of all ICT & Non-ICT infrastructure for the Surveillance Solution Note: Minimum cumulative Bill Value against product supply shall not be less than INR 2 Crores	35% of CAPEX	3. Installation of all ICT & Non-ICT infrastructure for the Surveillance Solution	35% of CAPEX	4. Unit Testing by System Integrator	5% of CAPEX	5. Final Acceptance Testing	5% of CAPEX	6. Solution stabilization & Go-Live	5% of CAPEX	7. Quarterly Payments - Operations & Maintenance Phase for a period of 3 years	OPEX equally amortized across 12 quarters	8. 36m months - Project Closures Exit Management	Remaining 5% of CAPEX	Request you to amend the payment terms as below so that project can be viable for MSI in times of Covid 19	Tender clause remains unchanged
Milestone	% Payment																								
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732	2	7.2	Payments Terms	212	Supply of all ICT & Non-ICT infrastructure for the Surveillance Solution 35% of Capax	Rquest to Ammnd this clause to 50 % of capex	Tender clause remains unchanged																		
733	2	7.2	Payments Terms	212	Installation of all ICT & Non-ICT	Rquest to Ammnd this clause to 20 % of capex	Tender clause remains unchanged																		
734	2	8	8.1	215	Integration with GIS - CCC, Surveillance	1- In the clause GIS integration is defined with CCC & Surveillance. 2- Pls share the information of existing GIS system to be integrated with CCC & surveillance.	Will be part of the Scope after GIS Tender is released by GCC/GCP under Nirbhaya Scheme																		
735	2	General Query	General Query	General Query	General Query	Please allow Provisioning of separate Test and Development Environment for doing any Integration and Testing Activity. These activities cannot be performed on Production Environment. MSI needs to provision the same. Kindly confirm	RFP scope is self-explanatory																		
736	2	General Query	General Query	General Query	General Query	Please confirm if MTC will have the appropriate personnel deployed to help open parts of the Bus Interior to lay cables for the cameras that will need to be installed within the bus. Also, kindly confirm if personnel will also be involved in supporting the interior opening / closing of parts from MTC during the demonstration session	MTC will provide necessary support if acces to internal parts of the bus are required																		
737	2	General Query	General Query	General Query	General Query	Please confirm if MTC will give us the option to choose the prototype demonstration session to be scheduled during day/night as per availability or if MTC will schedule this based on the number of bidders qualified at the time. If so, would the prototype demomnstration session be organized in the day time or night time.	RFP scope is self-explanatory																		
738	2	General Query	General Query	General Query	Electricity and Water charges	We request MTC to directly pay one-time and recurring electricity & water charges during implementation and O&M phase to electricity board/other concerned authorities and request you to confirm that Electricity & Water charges need not be quoted by SI & it shall be over and above the bid price.	Recurring Electricity and Water Charges in CCC, Depots & Terminasls will be borne by MTC																		
739	2	General Query	General Query	General Query	General	Authority to consider and accept to bear one time charges and recurring charges of electricity and water to be used throughout the project.	Recurring Electricity and Water Charges in CCC, Depots & Terminasls will be borne by MTC																		
740	2	General Query	General Query	General Query		MNVR and IP camera increases the cost of solution. Can we consider analog camera with higher resolution (2MP camera) and MDVR. This will reduce cost. Please suggest.	Tender Clause remain unchanged																		
741	2	General Query	General Query	General Query		Is there any additional benefit in marks for Made in India products	Preference to Make in India dated 4.06.2020 will be followed																		
742	3	3	3.3	7	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 of 5% of the contract value	SI has sole responsibility for the performance of this tender and will ensure SLA as per the client requirement. Hence request to remove this clause and accept the agreement between SI and authority as final.	Tender clause remains unchanged																		

743	3	8	8.1	9	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 that all permissions/approvals from different departments be in the scope of MTC. The charges for Right of Way and Road Instatement be borne by MTC and request you to confirm that ROW & RI charges need not be quoted by SI & it shall be over and above the bid price.	ROW & RI Charges if any will be on Bidder's Scope
744	3	10	10.5	10	SI shall ensure that none of the Key Personnel proposed (refer RfP Volume I) and manpower exit from the project during first 6 months of the beginning of the project. In such cases of exit, a penalty of INR 2 lakhs per such replacement shall be imposed on SI.	With unexpected situation similar to which being faced now, SI may not be in a position to ensure that any resource will be available for a particular time period. There can be personal or medical condition due to which a resource will be forced to quit. Considering this authority is requested to remove this clause and allow the SI to replace with new resources of equivalent qualification.	Tender clause remains unchanged
745	3	10	10.5	10	SI shall ensure that none of the Key Personnel proposed (refer RfP Volume I) and manpower exit from the project during first 6 months of the beginning of the project. In such cases of exit, a penalty of INR 2 lakhs per such replacement shall be imposed on SI.	The penalty is very high requesting to reduce this upto 10,000. Also confirm this replacement penalty shall applicable to every key personnel or any selected key personnel.	Tender clause remains unchanged
746	3	10	10.5	10	SI shall ensure that none of the Key Personnel proposed (refer RfP Volume I) and manpower exit from the project during first 6 months of the beginning of the project. In such cases of exit, a penalty of INR 2 lakhs per such replacement shall be imposed on SI.	Since the overall responsibility for the smooth running of project lies with the SI, we request the stringent penalties for exit of manpower be removed.	Tender clause remains unchanged
747	3	10	10.10	11	SI would be required to explicitly display that he/they have a back to back arrangement for provisioning of warranty/O&M support till the end of contract period with the relevant OEMs	SI has sole responsibility for the performance of this tender and will ensure SLA as per the client requirement. Hence request to remove this clause and accept the agreement between SI and authority as final.	Tender clause remains unchanged
748	3	10	10.12	11	All the OEMs that Bidder proposes should have Dealer possession licenses	As per understanding, the dealer possession certificate is for "dealers and distributors of wireless products". Hope this is not applicable here. Please clarify.	Tender clause remains unchanged
749	3	10	10.13	12	The Authority reserves the right to review the terms of the Warranty and Annual Maintenance agreements entered into between SI and OEMs and no such agreement/contract shall be executed, amended, modified and/or terminated without the prior written consent of the Authority. An executed copy of each of such agreements/contracts shall, immediately upon execution be submitted by SI to the Authority.	SI has sole responsibility for the performance of this tender and will ensure SLA as per the client requirement. Hence request to remove this clause and accept the agreement between SI and authority as final.	Tender clause remains unchanged
750	3	10	10.13	12	The Authority reserves the right to review the terms of the Warranty and Annual Maintenance agreements entered into between SI and OEMs and no such agreement/contract shall be executed, amended, modified and/or terminated without the prior written consent of the Authority. An executed copy of each of such agreements/contracts shall, immediately upon execution be submitted by SI to the Authority.	Request that the clause be modified as: 10.13. The Authority reserves the right to review the terms of the Warranty and Annual Maintenance agreements entered into between SI and OEMs and no such agreement/contract shall be executed, amended, modified and/or terminated without the prior written consent of the Authority. An executed copy of each of such agreements/contracts shall, immediately upon execution be submitted by SI to the Authority.	Tender clause remains unchanged
751	3	12	12.2	18	SERVICE LEVELS. Authority shall make reasonable efforts to make payments to SI within 45 days of receipt of invoice(s) and all necessary supporting documents.	Request to change to clause as per below SERVICE LEVELS. Authority shall make reasonable efforts to make payments to SI within 30 days of receipt of invoice(s) and all necessary supporting documents.	Tender clause remains unchanged
752	3	22	22.3	27	In case of a Force Majeure, 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.	1. We request you to kindly add pandemic situations as Force Majeure Event. 2. Please confirm that MSI is eligible for payment if any disbursed towards the sub-contractor in pandemic/ epidemic like situations. 3. Also please clarify the course of action by authority if force majeure event is beyond control for a longer duration.	Tender clause remains unchanged

753	3	22	22.2	27	In such an event, the affected party shall inform the other party in writing within five days of the occurrence of such event.	Request that the clause be modified as: In such an event, the affected party shall inform the other party in writing within 14 days of the occurrence of such event.	Tender clause remains unchanged
754	3	28	28.3	30	This limitation of liability shall not affect SI liability, if any, for damage to Third Parties caused by SI or any person or company acting on behalf of SI in carrying out the Services.	Request clarity on how MTC would quantify the liability limit excluding consequential or indirect damages. Also, we understand that the liability of the SI would be limited to the total payable under the contract value. Please confirm.	Tender clause remains unchanged
755	3	36	36.4	35	The termination hereof shall not affect any accrued right or liability of either Party nor affect the operation of the provisions of the Contract that are expressly or by implication intended to come into or continue in force on or after such termination.	Request clarity on how MTC would quantify the conclude or quantify on the payment post terminating the SI.	Yes, Eligible upon Mutual Discussion and Acceptance
756	3	37	37.6	36	Each Party shall be responsible for its own costs incurred in the quotation, preparation of CCNs and in the completion of its obligations described in this process provided SI meets the obligations as set in the CCN.	Please confirm that MSI will be eligible for variation cost due to effect of change order	Yes, Eligible upon Mutual Discussion and Acceptance

Managing Director
Metropolitan Transport Corporation (Chennai) Ltd