

RFP No.: LTR.NO. LXVII-24/2018/T.C/15098

Name of the Project: REQUEST FOR PROPOSAL FOR INTELLIGENT ENFORCEMENT MANAGEMENT SYSTEM - OFFICE OF TRANSPORT COMMISSIONER, ODISHA

It is instructed to the Bidders to read the corrigendum in conjunction to the RFP. Notwithstanding, if not mentioned in corrigendum, all statements and terms and conditions mentioned in the RFP prevails.

CORRIGENDUM

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1. RFP KEY EVENTS DATES

Key Events	Existing Dates	Modified Dates
Last Date & Time for submission of Proposal	15 Jan 2019 till 11 AM	21 Jan 2019 till 2 PM
Date & Time for Opening of BID	15 Jan 2019 at 12 PM	21 Jan 2019 at 3 PM
Place, Time and Date of opening of Technical Bid(s)	Place: State Transport Authority, 7th Floor, Conference Hall, Rajaswa Bhawan, Cuttack – 753002 Date: 18 Jan 2019 Time: 3.30 PM	Place: State Transport Authority, 7th Floor, Conference Hall, Rajaswa Bhawan, Cuttack – 753002 Date: 29 Jan 2019 Time: 3 PM
Place, Time and Date of Technical Presentation	Place: State Transport Authority, 7th Floor, Conference Hall, Rajaswa Bhawan, Cuttack – 753002 Date: 21 Jan 2019 Time: 11.30 AM	Place: State Transport Authority, 7th Floor, Conference Hall, Rajaswa Bhawan, Cuttack – 753002 Date: 5 Feb 2019 Time: 11.30 AM
Place and Date of proof of concept demonstration	Place: Chatia highway, with gantry structure already present Date: 22 Jan 2019 from 12 PM onwards	Place: Chatia highway, with gantry structure already present Date: 7 Feb 2019 from 11 AM onwards

2. ADDITIONS / MODIFICATIONS TO RFP: LTR.NO. LXVII-24/2018/T.C/15098 Date: 22.12.2018

Sl.#	Section in RFP	RFP Ref. Page No	RFP Reference Clause	RFP Modifications / Additions
1	2.6.3 Overview Cameras	29-30	Technical Specifications of Video Management & Operator Functions	The Item remains cancelled. Any section in the RFP related to the Overview camera will not be considered including BOM Items, Price
2	C. Technical Presentation and Live Demo = 25 Marks	52	Live Demo: Demonstration and Proof of Concept	Passing in the POC is mandatory for bidders to qualify to next stage. Any bidder not participating in the POC will be disqualified.
3	2.5 Functional Requirement Specifications	24-25	Speed Violation Detection (SVD)	<p>The system should be capable of adopting the functionality of Section Speed Analysis between Two / Multiple Locations, Lane Based Speed and Class (LMV, HMV etc.) based speed detection.</p> <p>Modify (3E): The system should allow the operator to set different speed limits for different categories of vehicles and different stretches of road for different time period.</p>
4	2. Automatic Number Plate Recognition Software (ANPR)	22-23		The System should have the capability to store and retrieve Whitelist vehicles (from OPMS, data to be provided by STA) to check and present data for diligence on Timing of plying on the road against the Permit issued timing. The Data needs be stored for period of 6 months for compliance & non-compliance for reference.

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5	6.5 Manufacturer Authorization Form	90		To be read as: We assure you that in the event of <Name of the Bidder> _____, not being able to fulfil its obligation as our Service Provider in respect of our standard Warranty Terms we would continue to meet our Warranty Terms through alternate arrangements and also provide spares in accordance with the Tender for the period of 5 (five) years.
6	Windows Licenses			The Windows Licenses wherever required for the project needs to be Windows 10
7	2.4 Bill of Material	21	15. Miscellaneous Items	To be read as: Miscellaneous items (Items name / Product Name/ Service Details description to be clearly mentioned
8	2.4 Bill of Material	22	15. Miscellaneous Cost	To be read as: Miscellaneous items (Items name / Product Name/ Service Details description to be clearly mentioned
9	2.4 Bill of Material	21	Note	To add: Please note that these are the minimum requirements & this is an indicative BoM. The actual components as well as their number will be dependent on the solution provided by the Bidder considering the architecture requirements, proposed solution and performance SLA. Compliance to the specifications mentioned in the RFP is to be given only on the letter head of the respective OEM.MAF from the OEM is essential and a mandatory requirement. Please include additional components as needed. The Bidder is requested to

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				provide unpriced BOM with the line items of Products and Pole Products mentioned. All items proposed by the bidder in unpriced BOM need to be same and in same sequence in Price BOM format
10	2.6 Technical Specifications of Video Management & Operator Functions	27-38		For all Technical Specifications the Tabular Format Columns will read as: Sl. No, Feature / Parameter, Required Specifications, Bidder's Proposed Specification, Compliance (Yes/No)
11	6.9 Price Bid Letter	95		To add: We have carefully read and understood the terms and conditions of the tender and any corrigendum published related to the said RFP and the conditions of the Contract applicable to the tender and we do hereby undertake to provide services as per these terms and conditions.
12	Live Feed to Video Wall			The Live feed to video wall will be made from any of ANPR Camera as and when required.
13	5.22.6 SLA Reporting System	79	SLA Reporting System	Add: The Application software shall be configured in such a way or any third-party SLA monitoring software shall be provided by the SI for monitoring the cameras, switches and other accessories. The SLA module shall be capable of monitoring and

Sl.#	Section in RFP	RFP Ref. Page No	RFP Reference Clause	RFP Modifications / Additions
				generating an alert (graphical) in case of any fault event (with time stamp) and recovery time. The module shall be configured in such a way that it can generate monthly/quarterly report for calculating total system uptime. The report shall be generated by system only without any manual intervention (manual SLA report shall not be processed for QPR based payment). At least 4 admin user accounts shall be provided to Office of Transport Commissioner for monitoring and downloading the SLA report. The proposed SLA module shall be capable of maintaining event log for a period of minimum 1 year for verification/diligence with SLA report.
14	Price Bid A: Hardware Items	97	Supply & installation for Connectivity - Junction to Control room (Hardware all inclusive) with Sim Data aggregator	Modify: Supply & installation for Connectivity - Junction to Control room (Hardware all inclusive) with SIM Data Aggregator/Broadband/Cable/OFC/Hybrid Mode
15	2.4 Bill of Material	21	Supply & installation for Connectivity - Junction to Control room (Hardware all inclusive) with Sim Data aggregator / FO Connectivity	Modify: Supply & installation for Connectivity - Junction to Control room (Hardware all inclusive) with SIM Data Aggregator/Broadband/Cable/OFC/Hybrid Mode
16	5.25.2 SLA during Post-Implementation Period	82	# Uptime	Modify: It means the time for which the services and facilities are available for conducting operations through the application / system including associated infrastructure. The Total Operations of the

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				<p>systems and applications will be 24X7X365 excl. scheduled Maintenance Time and network outage. In case of network outage (normal outage & force majeure), the SI shall be responsible for liaison with the network service provider for corrective measure ASAP to restore the connectivity (desirable within 1-2 hours for normal outage). SI need to update the Office of the Transport Commissioner on time to time basis reg. status and restoration. The scheduled maintenance time is planned downtime with the prior permission of the Office of Transport Commissioner.</p>
17	2.1 Scope of Work for System Integrator	19	The procurement, installation and commissioning of the application servers, storage is the responsibility of the SI, however, the premises for installation will be decided by Office of Transport Commissioner (either SDC or any other place).	Modify: The procurement, installation and commissioning of the application servers, storage is the responsibility of the SI (not for SDC Infra), however, the premises for installation will be decided by Office of Transport Commissioner (either SDC or any other place).

3. RESOURCE CV FORMAT

1.	Position Applied For				
2.	Name of The Resource				
3.	Designation in Current Organization				
4.	Date of Birth (dd/mm/yyyy)				
5.	Nationality				
6.	Total Years of Experience				
7.	No. of Years in Current Organization				
8.	Education (Year in Which Various Qualifications were obtained must be stated)	<i>Year</i>	<i>Degree/Diploma</i>	<i>Institution/University</i>	
9.	Other Training & Certifications				
10.	Language & Degree of Proficiency	Languages	Read (Excellent/Good/ Fair)	Write (Excellent/Good/ Fair)	Speak (Excellent/Good/ Fair)
		English			
		Odia			
		Hindi			
11.	Country of Work Experience				

12.	Summary of Relevant Experience	
13.	Relevant Skill Sets	
14.	Employment Record (Please add rows to illustrate all Employment Records)	
	From – To	
	Employer	
	Position Held	
	Summary of Projects Handled/Executed/Delivered	
15.	Work Undertaken that best Illustrates Capability to handle the tasks assigned for IEM Project	
	Name of The Assignment	
	Year	
	Location	
	Client	
	Main Project Features	
	Positions Held	
	Activities Performed	
19	Name & Signature	<p>Declaration: All the information mentioned in the resume are correct to the best of my knowledge and believe. Any false statements will lead to the disqualification on my candidature at any stage of the IEM project.</p> <p>Resource Name: <<NAME OF THE RESOURCE>></p> <p>(Signature) (Date)</p> <p>Full name of Signatory: Designation:</p>

4. PROJECT CASE STUDY FORMAT

Name of the Project	
Project Location	
Name of Client with Address & Contact Details	
Duration of the Assignment (in Months)	
Start Date	
Status (if completed, provide the date of completion)	
Approx. Value of the assignment	
Name of senior staff (Project Coordinator / Team Leader) involved and functions performed	
Detailed narrative description of project including the scope of work.	
Detailed description of actual services provided by your firm	

5. IR ILLUMINATOR - TECHNICAL SPECIFICATIONS

IR Illuminator - Technical Specifications				
Sl. NO	Feature	Required Specifications	Bidder's Proposed Specifications	Compliance (Yes/No)
1	Beam Angle	80W, 20° ~ 40° remote adjustable		
2	Max. Distance	170~280 meters		
3	Input Power	24VCD +or-10%; 24VAC (50/60) +or-10%		
4	Power Consumption	80W		
5	Housing	Weather-proof IP66-rated housing; Vandal-proof IK10-rated housing		
6	Operating Temperature	Temp- 10 ° C ~ 50°C (-14°F ~ 122°F)		
7	Wavelength	850nm		
8	Certifications	IEC 62471, EN 50130-4, CE: EN61000-6-3, EN60598-1, EN60598-2-5, FCC Class A, EN60529		
9	Integrated Control	Built-in photocell for automatic IR on/off		

6. RESPONSES TO BIDDERS FOR QUERIES RECEIVED

Sl. #	Section in RFP	RFP Ref. Page No	RFP Reference Clause	Clarifications/ Suggestions/Amendments by Vendors/Bidders	Responses to Bidders
1	Pre-Qualification Criteria (Annual Turnover)	50	The prime bidder is desirable to have minimum Annual Turnover of Rs. 15.00 Crores only for the last 3 financial years i.e. FY 2015-16, FY 2016-17 and FY 2017-18.	If the bidder does not have turnover of Rs.15.00 crores, then they are not eligible for participation? We have all experience mentioned in the tender. But we are not being able to match the turnover criteria. Therefore, we would request you to kindly reduce the turnover criteria to 3 crores during last 3 financial years instead of Turnover of Rs. 15.00 Crores	The clause to be read as "The prime bidder is desirable to have minimum Annual Turnover of Rs. 15.00 Crores in aggregate for the last 3 financial years i.e. FY 2015-16, FY 2016-17 and FY 2017-18 and should not be with negative turnover during any of these FYs.
2	Factsheet (Earnest Money Deposit (EMD))	8		What is the estimated cost of Project. No format for BG attached in tender document for the EMD	The Bidder can submit EMD Format as prescribed by any Scheduled / Nationalized Bank of India
3	3.2 Bid Submission	41	Envelope-3 (Technical Qualification Supporting Documents)	No format given in the tender. Project case studies in prescribed format.	Request to please refer corrigendum details
4	3.2 Bid Submission	41	Envelope-3 (Technical Qualification Supporting Documents)	No format given in the tender.CV of the proposed resource person as per provided format	Request to please refer corrigendum details
5	1.1 Project Background	11	2nd Paragraph Vehicle Registration Number will be captured through ANPR Cameras and Speed cameras and data will be processed at	The Tender is asking for an LPU. We understand the processing is done at the cameral level only via a LPU	Processing will be done at LPU Level

Sl. #	Section in RFP	RFP Ref. Page No	RFP Reference Clause	Clarifications/ Suggestions/Amendments by Vendors/Bidders	Responses to Bidders
			Local Processing Unit (LPU in IP 55 enclosure)		
6	2.5 Functional Requirement Specifications 3. B. Speed Violation Detection (SVD)	24	The offered system should be able to detect vehicle license plates along with speed violation detection for vehicles having speed even more than 250 KMPH (with suitable camera with required frame rate within 3 Sec) and exceeding the speed limit as earmarked across the stretch with an accuracy of at least ± 2 KMPH. The system should generate an automatic alert in case of a speed violation and generate unique case number for each violation detected.	The accuracy of any video-based system is less than 50% based on the technology as it exists today. These Video Based systems are typically used for point to point-based enforcement (Fixed Distance Time consumed type of enforcement) and never for spot speed enforcement anywhere in the world due to its low accuracy. These can be easily challenged in courts as the technology is not mature enough as on date. 3D or 4D Tracking Radar based systems are the most reliable and suggested for Indian traffic conditions. (b). Accuracy of +/- 2 KMPH is impossible to be achieved in Video Based systems. (c). These Video based systems are to the best of our knowledge not available with certified accuracy by any Indian Lab as on date.	The Tender is for Automatic number plate detection for different traffic violations and not for speed detection only. The bidder can propose the radar based ANPR, however the Bidder to meet the FRS as mentioned in the tender. The speed limit detection as earmarked across the stretch with an accuracy of at least ± 3 KMPH. Any solution (Radar based/ Video based) must have certified from reputed Indian test lab / institute under central govt. Such test report should certify the system capability of capturing up to 200 KMPH speed.

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7	2.5 Functional Requirement Specifications 4. B. Artificial Intelligence (AI) and Deep Learning (DL) Based Intelligent Traffic Management System Analytics	24	The deep learning based ITMS system should work on centralized architecture. The system should get the live stream from the cameras to the data center for processing.	We understand that the deep learning is at the central level and detection is at the camera level. We also understand that the deep learning is done via data that is sent from the cameras as live feed is not considered to be streamed from camera to the central servers (This is very costly affair as huge running videos are to be streamed), only the captured data/image is sent to the servers. Kindly clarify.	The camera will capture Image & video, & LPU will do the deep learning, then the event image/ Video will be sent to central level
8	1.1 Project Background	11	2nd Paragraph Vehicle Registration Number will be captured through ANPR Cameras and Speed cameras and data will be processed at Local Processing Unit (LPU in IP 55 enclosure)	The Tender is asking for an LPU. We understand the processing is done at the cameral level only via a LPU	The camera will capture Image & video & LPU will do the deep learning, then the event image/ Video will be sent to central level
9	2.6.2 ANPR Cameras and Housing 9. Operating Temperature	27	Operating temp-Starting Temperature: 0°C ~ 60°C (32°F ~ 140°F) Working Temperature: -20°C ~ 60°C (-4°F ~ 140°F) -40°C ~ 60°C (-40°F ~ 140°F), with optional cold start heater	Request you to change it -10 to 50deg.C Kindly accept to change it. This change does not affect the functionality of the system. Accepting this clause will allow maximum participation from leading Camera's OEM.	As per RFP

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10	PQ Criteria and Technical Evaluation Criteria	50-53	Technical Capability, Company Competence, Implementation Exp, Domain Experience, Maintenance Experience	In case of Consortium, requesting to consider the credentials of the consortium for PQC & TEC, instead of prime bidders' only.	As per RFP
11	2.5 Functional Requirement Specifications	25	Sl. No 6. No Helmet Detection System	Can we be allowed to fulfill the requirement by 3rd Party Software Integration with our existing Software System.	As per RFP
12	2.5 Functional Requirement Specifications	25	Sl. No 7 - Triple Ride Detection	we see technical limitations in being able to do this reliably, requesting to eliminate this feature.	As per RFP
13	2.4 Bill of Material	21	Sl. No - 1. ANPR Camera and Connection license	Requirement asks for 1 camera per lane for ANPR, yet the "Bill of Material" calculates with 52 (or 66) cameras. Based on the "Installation Locations" sheet within the RFP, we have calculated 115 lanes. Please clarify.	BOM is final (excluding the 4 Nos Overview Camera and Connection License), 3 cameras position to be decided during execution
14	2.4 Bill of Material	21	Sl. No - 2 & 3. Camera & License	There are 24 locations, and the requirement asks for CCTV solution in all locations. Yet the "Bill of Material" only calculates with 4+13 CCTV cameras and licenses. Please Clarify	Refer RFP page 18-19

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15	2.4 Bill of Material		Centralized ANPR on a server	"Bill of Material" calculates with centralized ANPR on a server. We could do ANPR running on each camera. Advantage of this is that only the processed data would go to a central database, not the full video stream, saving a lot of bandwidth and storage space. Is this acceptable solution? (We can do centralized ANPR if that's a strict requirement)	As per RFP
16	2.4 Bill of Material	22	Note: Bidder may propose enterprise DB license according to the proposed solution, & quote accordingly. Else shared DB (SQL) may be available by OSDC/ STA	We are assuming that we can propose our Globessey Data Server (GDS) which would be a good fit for this requirement, will it be ok?	As per solution
17	5.3 Payment Terms	65	Existing Payment Terms: 40% on Supply, 30% on Installation, 20% after go live & 10% on acceptance of QPR	Requesting to change it as: 60% on Supply, 30% on Installation, 5% after go live & 5% on acceptance of QPR	As per RFP
18	1. Introduction	10 (Paragraph h-6)	The solution will have the capability, for integration with NIC Applications, Vahan 4.0 (V4.0) and Sarathi 4.0 (S4.0)	Please detail the role of STA in providing support in such integration. We are integrated with Government e-challan system Managed and provided NIC, thus direct integration with Vahan and Sarathi will not be required.	STA will provide support in getting approvals, but responsibility of SI for integration/web services

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19	1. Introduction	10 (Paragrap h-5)	Commissioned to detect vehicles for over speeding and slapping appropriate fines as per MV act and Rules	Has STA prepared a detailed requirements document. If so can it be shared for understanding detail scope of the work to be done	As per RFP (MV Act, Rules will be shared with successful Bidder)
20	2.5 FRS SI No 2. N	24	Classification of Vehicle	What are the various Vehicle classifications expected. Is it sufficient to provide classification between LMV & HMV with photograph of vehicles violating the rules	Refer RFP page 24 /Annexure 3
21	1.1.1 ANPR and Speed Detection System	12	OCR (OCR conversion accuracy should be at least 95% during day time and 75% during night time for all types and classes of vehicles, standard or non-standard format of license plates across all weather conditions) will extract the registration plate number of that violating vehicle with machine readable format for further processing	ANPR needs to have a legible font on the number plate. Typically, it is easier to work on English number plates. Does STA intend to have mentioned SLA for Fancy number plates, Non-Standard Number plates and Number plates in languages other than English	OCR accuracy shall be calculated on HSRP and standard number plates, however capability for ANPR is good to have for other plates also.

SI. #	Section in RFP	RFP Ref. Page No	RFP Reference Clause	Clarifications/ Suggestions/Amendments by Vendors/Bidders	Responses to Bidders
22	Installation Locations	17-18		<p>**Do the identified locations (24) have continuous ROW power supply and necessary connections?</p> <p>**Does the identified locations (24) have active fiber optic cable network?</p> <p>**For ROW permissions & payments, should be client responsibility to seek the permissions from different departments, SI can facilitate for the required drawings and measurements.</p> <p>**Who will bear the charges for electricity for the implementation & maintenance tenure. STA or SI?</p>	Refer RFP Page 19 for Power & Page 14 for OFC connectivity
23	1.1 Project Background	11	All accessories and fitting hardware such as brackets / poles, wiring (including earthing compliance) together with associated masonry work are included in the scope of work for the bidder.	Considering some locations may be remote can STA provide certain basic facilities like arrangement of Forklift, Ladders etc during installation if required on a temporary basis.	Responsibility of SI
24	1.1 Project Background	11	MIS Reports	Has STA identified the different reports which need to be generated.	To be decided at the later stage

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				Is there a standard format available with STA for such reports	
25	1.1.1 ANPR and Speed Detection System	12	One camera per lane will be placed to capture the license plate and the camera system will be running in the local processing units (at nodes)	Our system has capability to monitor up to 8 lanes on 1 side using Single Radar + Flash + Camera. The Camera is High end (up to 36MP) and captures pictures with precision and clarity. Is it mandatory to have 1 camera per lane?	As per RFP, 1 Camera per Lane
26	1.1.1 ANPR and Speed Detection System	12	The entire flow of the solution will be as below:	E-Challan System is supposed to communicate with the offenders since the Challan is generated outside the IEM System. What does STA expect IEM System to do?	IEM solution to feed to the data to e-challan system through API web services
27	1.3.1 SI No 4	15	For command control center, setting up of video wall, LED TVs, connectivity including minor civil works.	Please define the scope of minor civil works. Also, kindly clarify, if STA will procure necessary permissions from various authorities like PWD	Drill, Cementing, Holes, painting, partitioning, flooring etc. to fit the Video Wall
28	1.3.1 SI No 7	15	Training on application solution and assistance to the staff members of the RTO/Office of Transport Commissioner and related officers as and where required.	How many staff members are expected to be trained. Will STA provide with necessary infrastructure for training. How many locations does STA envisage for conducting Trainings	Approximately around 20 officials, however, numbers will be ascertained after the solution is developed and deployed. STA will provide basic infra like Conf. Room, Projectors (if reqd.), Bidder need to carry supporting documents, Files, leaflets, training material, laptop, pen drive etc, to conduct the training. Training is envisaged

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					for STA-HO and 2-3 Locations namely Cuttack, BBSR.
29	1.3.1 SI No 9	15	To ensure that Backups are being taken at regular intervals.	Kindly confirm the duration of Backup to be stored. Also confirm the periodicity of Backup expected	Successful bidder requested to discuss with SDC authority & freeze.
30	1.3.1 SI No 16	15	The successful bidder shall hand over the system within 5 months / 20 Weeks from date of issue of Work Order	** Is the duration fixed? If so SI expects STA to have procured all necessary approvals at their end. Has the Core Team been formed to work with SI for successful implementation of the project? Please detail the process of acceptance (Hardware + Software) step-wise **Does STA expect project completion and handover in the prescribed time (including integration with 3rd party system providers.)	As per RFP Refer page number 65 of the RFP Project Duration is fixed
31	1.3.1 SI No 17	15	Whitelisting of vehicles to be traced.	Kindly explain in detail	Stolen, Prohibited or any vehicles which are declared illegal in Law/Acts/Rules. The said vehicles Data will be provided by Vahan 4.0

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32	1.3.2 SI No 10	15	To monitor Computation of penalties, SLAs, release of payments.	Does STA provision for payment of interest/penalties for delays from their own end or delay from any government bodies etc	NO
33	2.1	16	Office of Transport Commissioner, Govt. Applications like RAMIS (Road Accident Management Information System), CCTNS, Vahan 4.0, Sarathi 4.0, OPMS and any of the above-mentioned applications.	SI expects STA to procure necessary approvals, identify SPOC's with such 3rd party applications and necessary Technical + Functional Documentation. Kindly confirm the availability	STA will help in approvals only. Technical & Functional Documentation are responsibility of SI
34	2.1	16	The scope of the work/deliverables for the Lead Bidder / Consortium partners is to Supply, installation, commissioning and maintenance of Automatic Number Plate Recognition Cameras and Speed Violation Detection System to achieve said objectives for the pilot phase between Khurda and Chandikhole on NH 16 and can be further extended or modified.	Is it safe to assume that such extensions will be part of same Tender and an additional PO/WO will be issued for the same	NO. Extensions will not be part of same tender and will be decided later

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35	2.1 SI No 3 SoW	19	The system shall be configured in such a way that, once the violation event is generated & approved, that shall be sent/ synced to the e-challan module for generating the challan. The packet should contain (image of the vehicle {captured by camera}, time stamp, specific MV act, unique event number {for tracking}, embedded link for video from Office of Transport Commissioner server etc.). The synchronization shall be done with e-Challan module by web	Will necessary documentation and clarification be provided by STA on MV act	Yes
36	2.4	21	Bill of Material	<p>**Having radar-based technology our equipment can monitor up to 8 lanes on one side. Can the BOM be modified accordingly.</p> <p>**Since our product comes as Stand-Alone installation we do not need Gantry or any poles to mount our equipment which can be installed as an independent installation on 1 side</p>	As per RFP

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				of the road. This can modify the existing design or layout mentioned in the RFP. How flexible is STA to do such modification and accommodate our solution? This will obviously reduce the quantity of inventory required, maintenance required, and installation effort required to put up the solution	
37			General	<p>**Will STA insure the equipment for any damages caused for above mentioned reasons in sr. no 24</p> <p>**What precautions are being taken by the STA to prevent, theft, vandalism etc and provide security to the product.</p>	Insurance of all the equipment is responsibility of SI and SI need to submit the requisite documents. Security Cameras will also be installed to prevent theft, vandalism etc. and provide security to the product in each gantry.
38	2.5.FRS 3.A(SVD)	24	The system should be video based speed violation detection system and no other element like laser, radar, sensor and loop etc. to be used for speed detection.	While the world-over most countries are rejecting only video camera-based technologies and implementing Radar based sensors or Drone based technologies for its accuracy and speed, Can STA clarify why other technologies are rejected other than Camera. If there is any comparative study done, can STA share such report?	Please read as: The system should be video/ laser/ radar/ sensor and loop based or hybrid speed violation detection system

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39	Section 4.6, Pre-Qualifications Evaluation Section 4.7, Technical Evaluation	49 & 51	General	In recent similar tenders, the bidders were allowed to submit their parent company credentials to meet technical & financial criteria if the bidders are wholly owned/ 99.99% subsidiary of their parent company in same domain. Hence, we kindly request the authority to allow the bidders to use their parent company credentials to meet PQ & TQ criteria sought in this RFP. Please confirm.	As per RFP
40	Section 4.6, Pre-Qualifications Evaluation, Annual Turnover	50	The prime bidder is desirable to have minimum Annual Turnover of Rs. 15.00 Crores only for the last 3 financial years i.e. FY 2015-16, FY 2016-17 and FY 2017-18.	Requesting to allow bidder to use the financials of preceding last three years i.e. (2014-15,2015-16 & 2016-17), if their current financial year (FY 2017-2018) auditing is under process and submit a declaration for non-submission of financials for the said year.	Interim CA certificate is accepted for FY 2017-18
41	Section 4.6, Pre-Qualifications Evaluation, Certificate for speed violation detection	51	The technology including solution proposed by bidder for speed violation detection should have been certified/tested by reputed Indian test laboratory or institute under central government	Requesting to allow bidder to submit speed detection system certified/tested by reputed Indian test laboratory or institute under central government or internationally accredited institutions	Reputed Indian test lab / institute under central govt. Such test report should certify the system capability of capturing up to 200 KMPH speed.

Sl. #	Section in RFP	RFP Ref. Page No	RFP Reference Clause	Clarifications/ Suggestions/Amendments by Vendors/Bidders	Responses to Bidders
42	Section 4.7, Technical Evaluation, Domain Experience	52	<p>Integration of CCTV based Public Safety and Traffic Control services over minimum 75 ANPR cameras during last five years.</p> <ul style="list-style-type: none"> • Project of 75 Cameras = 5 marks • Project of 150 Cameras = 10 marks • Project of 300 Cameras = 15 marks • Project of 500 Cameras = 20 marks 	<p>Requesting to modify the clause and marking as below for a competitive bidding: "Integration of CCTV based Public Safety or Traffic Control services over minimum 50 ANPR cameras during last five years." <ul style="list-style-type: none"> • Project of 50 Cameras = 5 marks • Project of 100 Cameras = 10 marks • Project of 150 Cameras = 15 marks • Project of 200 Cameras = 20 marks </p>	As per RFP
43	Section 1.1.1 ANPR / Speed Detection System	12	OCR conversion accuracy should be at least 95% during day time and 75% during night time for all types and classes of vehicles, standard or non-standard format of license plates across all weather conditions	<p>Considering Indian conditions, we request authority to revise the OCR conversion accuracy as below: "OCR conversion accuracy should be at least 80% during day time and 60% during night time for all types and classes of vehicles having standard format of license plates across all weather conditions" "OCR conversion accuracy should be at least 70% during day time and 50% during night time for all types and classes of vehicles having non-standard format of license plates across all weather conditions"</p>	Please read as: OCR conversion accuracy should be at least 95% for HSRP during day time across all weather conditions; 90% for Standard Number Plates during day time across all weather conditions and 70% at night time for all plates.

Sl. #	Section in RFP	RFP Ref. Page No	RFP Reference Clause	Clarifications/ Suggestions/Amendments by Vendors/Bidders	Responses to Bidders
44	Section 2.1, Scope of Work for System Integrator	16	The selected SI shall procure, supply & configure the 4G Wi-Fi routers in each location/node/site. In this regard, the SI will have the responsibility to select the best service provider for this location (in terms of bandwidth/service) to ensure that the uptime of the entire system should not fall below 99.5% at any point of time and any weather conditions.	Requesting authority to lower the uptime to 97% considering Indian conditions.	Accepted the uptime as 97%. The SLA during post implementation period for uptime and penalty will be calculated accordingly. Modify: Uptime – Penalty Matrix: Uptime = 97%; No Penalty Uptime less than 97%-95%: 10% of current quarter's maintenance charges payable under the Agreement. Rest SLA -Penalty Matrix as per RFP. Any other suitable alternative networking solution is also acceptable
45	Installation Locations, Notes	18	The existing four lane (2+2) highway are proposed for extension to 6 lanes by NHAI.	Kindly provide the width of extension proposed by NHAI for these four lanes for better understanding of the bidder.	Gantry Drawing is already provided measuring the extension, please refer location details
46	Section 2.4 Bill of Material, S No-2	21	Overview/ Surveillance Camera and Connection License	As per the RFP, total overview camera count given is 8 cameras specifically for 4 locations which does not match with the location count given in this RFP.	The Overview Camera Requirement stands cancelled.

Sl. #	Section in RFP	RFP Ref. Page No	RFP Reference Clause	Clarifications/ Suggestions/Amendments by Vendors/Bidders	Responses to Bidders
47	Installation Locations	18	Similarly, the overview cameras (2 each X 4 Locations) shall be fixed in 4 locations based on decision from Office of Transport Commissioner.	As per RFP the total location count is 24 and this does not match with the total overview camera count in bill of Material. Kindly clarify the exact count of overview cameras required.	The Overview Camera Requirement stands cancelled
48	2.5 Functional Requirement Specifications 2.D Automatic Number Plate Recognition Software (ANPR)	23	The system should capture standard vehicle's number plates with an accuracy of at least 95 % at day time and at least with an accuracy of 75% at night time.	We request you to keep overall reading accuracy be 80% during day time and 70% or better during night time on all vehicles including two & four wheelers, which is visible by human eye for English Alphanumeric number plates excluding cursive fonts for standard and non-standard number plates.	Same as above
49	2.6.2 ANPR Cameras and Housing SI No.12	27	Maximum Streams	Asking for minimum 4 stream is restrictive in nature. You are requested to amend the clause as " min 2 stream and max. 3 streams".	Clause amended as min 2 stream and max. 3 streams
50	2.4 Bill of Material Pole Mounted Products SI No.5	21	LPU Hardware with 4TB HDD	Since data will be periodically sent to data center, 4TB HDD is not required and 1TB HDD is more than enough for this purpose. Kindly amend the clause accordingly.	As per RFP

SI. #	Section in RFP	RFP Ref. Page No	RFP Reference Clause	Clarifications/ Suggestions/Amendments by Vendors/Bidders	Responses to Bidders
51	2.6 Technical Specifications of Video Management & Operator Functions 2.6.1 Local Processing Unit (LPU) SI No.2	26	4TB surveillance grade hard disk (support up to 70° centigrade operating temperature)		As per RFP
52	2.6 Technical Specifications of Video Management & Operator Functions 2.6.1 Local Processing Unit (LPU) SI No.2	26	The system should run on outdoor, industrial grade multi core processor-based server and should be able to cover at least 8 lanes	The LPU requirement should be as per site requirement and design so that LPU shall offer more flexibility and up time. SI should be allowed to choose LPU as per their proposal, hence requesting you to remove this clause and amend the LPU requirement.	As per RFP
53	2.4 Bill of Material Pole Mounted Products	21	Request for Addition	Kindly add the line item for IR Illuminator for ANPR cameras which will be 118 nos.	Request to please refer corrigendum
54	2.4 Bill of Material Product SI No.4	22	Centralized Software for ANPR & SDV Event Aggregation, User Management, Resource Management Including Integration with Existing E-Challan System etc.	Kindly share the details of existing e-Challan's- 1) Vendor Name 2) Technology used 3) Technical Details	Vendor Name: NIC Other details will be provided to successful bidder.

Sl. #	Section in RFP	RFP Ref. Page No	RFP Reference Clause	Clarifications/ Suggestions/Amendments by Vendors/Bidders	Responses to Bidders
55	2.5 Functional Requirement Specifications 2. Automatic Number Plate Recognition Software (ANPR) SI No.2.G	23	The system should identify the category of the vehicle such as cars, Heavy Commercial Vehicles, Buses, Private Carriage, Three Wheelers and Two Wheelers and should store this information along with the license plate information for each transaction in the database.	At page 24, under SVD system, 4 vehicle classifications are asked whereas at page 23, multiple vehicle classifications are asked which is contradictory. Generally, 4 vehicle classifications (two-wheeler, three-wheeler, car and heavy vehicle) are asked in smart cities, ITMS, city surveillance tenders. You are requested to change the clause accordingly in tender.	AS per RFP, refer page number 23
56	2.5 Functional Requirement Specifications 3. Speed Violation Detection (SVD) SI No.2.D	24	The system should have the capability to classify the vehicle under categories such as car, three-wheeler, two-wheeler, heavy vehicle, etc.		AS per RFP, refer page number 23, vehicle under categories such as car, three-wheeler, two-wheeler, heavy vehicle, LMV etc.
57	2.5 Functional Requirement Specifications 2. Automatic Number Plate Recognition Software (ANPR) SI No.2.L	23	The system should have the functionality to trace the movement of a vehicle of interest on Google Map.....	Since there is no GPS installed, coordinates of movement of vehicle on Google MAP cannot be traced, instead static map shall be asked for this requirement. Hence, you are requested to amend the clause accordingly.	System should have the functionality for future scalability

Sl. #	Section in RFP	RFP Ref. Page No	RFP Reference Clause	Clarifications/ Suggestions/Amendments by Vendors/Bidders	Responses to Bidders
58	2.5 Functional Requirement Specifications 3. Speed Violation Detection (SVD) SI No.2.B	24	The offered system should be able to detect vehicle license plates along with speed violation detection for vehicles having speed even more than 250 KMPH (with suitable camera with required frame rate within 3 Sec) and exceeding the speed limit as earmarked across the stretch with an accuracy of at least ± 2 KMPH. The system should generate an automatic alert in case of a speed violation and generate unique case number for each violation detected.	We request you to keep the speed accuracy measurement as +/- 3 KMPH which is as per industry standard and asked in smart city, city surveillance, ITMS, safe and secure tenders.	Accepted

Sl. #	Section in RFP	RFP Ref. Page No	RFP Reference Clause	Clarifications/ Suggestions/Amendments by Vendors/Bidders	Responses to Bidders
59	2.5 Functional Requirement Specifications 4. Artificial Intelligence (AI) and Deep Learning (DL) Based Intelligent Traffic Management System Analytics SI No.4 A & B	24	4.A.The system should have the deep learning-based video analytics for intelligent traffic management applications such as: <ul style="list-style-type: none"> o Automatic Number Plate Recognition o No Helmet Detection System o Triple Ride Detection System o Wrong way traffic o Traffic Congestion Detection o Vehicle Counting and Classification (Two-Wheeler, Three-Wheeler, Four-Wheeler, Heavy Vehicle etc.) o No Parking Detection o Pole mounted Outdoor Industrial box security (alarm on theft, touching/ opening of box etc.) 	Without number plate, owner details cannot be fetched from the RTO/Vahan databases and also challan cannot be generated. Hence, you are requested to remove this clause.	As per RFP, without Number Plate at both Front and Rear, the event will be deleted

Sl. #	Section in RFP	RFP Ref. Page No	RFP Reference Clause	Clarifications/ Suggestions/Amendments by Vendors/Bidders	Responses to Bidders
			4.B. The system should detect the vehicles with no license plate and should raise an alert along with the video and snapshots of the vehicle.		
60	2.5 Functional Requirement Specifications 5. Automatic Number Plate Recognition Software (ANPR) SI No.5.B	25	The system should detect the vehicles with no license plate and should raise an alert along with the video and snapshots of the vehicle.	Without number plate, owner details cannot be fetched from the RTO/Vahan databases and also challan cannot be generated. Hence, you are requested to remove this clause.	As per RFP, without Number Plate at both Front and Rear, the event will be deleted

Sl. #	Section in RFP	RFP Ref. Page No	RFP Reference Clause	Clarifications/ Suggestions/Amendments by Vendors/Bidders	Responses to Bidders
61	2.5 Functional Requirement Specifications 8. General System Features SI No.8. D.	25	The server software must run on Linux OS for security reason whereas the client software must be possible to run on Windows OS for easy operation	Linux is acclaimed to be a preferred software platform in comparison to Windows in security systems. Hence, we request you to kindly incorporate Linux system as well along with Windows.	Client system must run on windows system
62	2.6.2 ANPR Cameras and Housing SI No.8	27	Housing - Weather-proof IP68-rated housing or better	The Cameras & IR Illuminators will be mounted at around 5.5-6.5 m above the ground level, hence, asking for IP-68 casing, which means submersion of Cameras & IR Illuminator, is not relevant. Requesting you to amend the clause from "IP-68 & IK10 rated" to "IP 66" only.	Please read as: Housing - Weather-proof IP66-rated housing or better
63	2.6.2 ANPR Cameras and Housing SI No.45	28	Housing - Weather-proof IP68-rated housing or better		Please read as: Housing - Weather-proof IP66-rated housing or better
64	2.6.2 ANPR Cameras and Housing SI No.11	27	Video Compression- H.265, H.264 & MJPEG	Video for ANPR cameras are processed locally at junction level, which requires low bandwidth. Hence video compression of H.265 is not required for ANPR. Also H.265 is limited to only few OEM and are restricting other OEM to propose the Cameras, we request you to amend the clause as "H.265/H.264, MJPEG".	As per RFP
65	2.6.2 ANPR Cameras and Housing SI No.32	28	Pan/Tilt/Zoom Functionalities- 48x digital zoom (4x on IE plug-in, 12x built in)	The asked analytics are not required for ANPR camera as ANPR camera works in Fixed field of view (FOV),	As per RFP

Sl. #	Section in RFP	RFP Ref. Page No	RFP Reference Clause	Clarifications/ Suggestions/Amendments by Vendors/Bidders	Responses to Bidders
				hence requesting you to remove the requirement.	
66	2.6.2 ANPR Cameras and Housing Sl. No.3	27	IR Threshold: IR on: 300 Lux IR off: 600 Lux RS485 configurable	IR for ANPR functionality is custom design and manufactured to focus light only on 4-meter ANPR view. hence this requirement may be removed	As per RFP
67	2.6.2 ANPR Cameras and Housing SI No.17	27	Intelligent Video motion detection Triple-window video Motion Detection	The asked analytics are not required for ANPR camera, hence requesting you to remove the requirement.	Accepted
68	2.6.2 ANPR Cameras and Housing SI No.19	28	Alarm Events Event notification using digital output, HTTP, SMTP, FTP, NAS server and MicroSD card File upload via HTTP, SMTP, FTP, NAS server and MicroSD card	The asked analytics are not required for ANPR camera, hence requesting you to remove the requirement.	As per RFP
69	2.6.2 ANPR Cameras and Housing SI No.21	28	IP Camera Connectors Digital input - 2 Digital output - 2 RS485 - 1, Audio output - 1, Audio input - 1, BNC - 1	Since these are IP camera so RS485 and BNC connectors are not applicable also audio and other connectors mentioned are not required for ANPR cameras. Request you to remove mentioned clause.	BNC is not required. Rest as per RFP

Sl. #	Section in RFP	RFP Ref. Page No	RFP Reference Clause	Clarifications/ Suggestions/Amendments by Vendors/Bidders	Responses to Bidders
70	2.6.2 ANPR Cameras and Housing SI No.23	28	Safety Certifications IP Camera: CE, LVD, FCC Class B, VCCI, C-Tick, UL	Asked certifications are limited to only few OEM and are restricting other OEM to propose the Cameras, we request you to amend the clause as "UL/EN/CE/FCC" which is the standard certification for Cameras.	Please read as: Safety Certifications IP Camera: UL/EN, CE, FCC, BIS
71	2.6.2 ANPR Cameras and Housing Sl. No.25	28	Image Sensor 1/2" Progressive CMOS or better	The mentioned 1/2" image sensor is a non-standard format, you are requested to amend the clause to "1/3" or better".	As per RFP
72	2.6.2 ANPR Cameras and Housing Sl.No.36	28	Dynamic Range 140 dB or better	140 dB WDR is not required because ANPR Cameras works in a limited field of view and supported by IR illuminator in night time. Hence, requesting you to keep WDR requirement "min. 90 DB" only	As per RFP
73	2.6.2 ANPR Cameras and Housing Sl. No.47	29	Operating Temperature: -50°C ~ 60°C (-58°F ~ 140°F)	" -50 °C seems to be a typo error kindly clarify"	Please read as: Operating Temperature: 0°C ~ 50°C
74	2.6.2 ANPR Cameras and Housing Sl. No.49	29	Certifications IEC 62471, EN 50130-4, CE: EN61000-6-3, EN60598-1, EN60598-2-5, FCC Class A, EN6052	Asked certifications are limited to only few OEM and are restricting other OEM to propose the IR illuminator, we request you to amend the clause as "UL/EN/CE/FCC" which is the standard certification for IR illuminator as well.	As per RFP

Sl. #	Section in RFP	RFP Ref. Page No	RFP Reference Clause	Clarifications/ Suggestions/Amendments by Vendors/Bidders	Responses to Bidders
75	Functional Requirement Specification 2.H	23	The system should have an option to store certain license plates of vehicles which are stolen or suspicious. The system should have the functionality to enter such license plate numbers to lists such as "Wanted", "Suspicious", "Stolen" etc. termed as hot lists of vehicles. The system should allow the user to import the vehicle license plate data in the hot lists stored in Excel sheets for batch operation.	The violation terms declared in RFP is very much specific. In the generic conditions system may consider whitelist and blacklist and the violation alarms can be generated based on the configured Blacklist and Whitelist Vehicles to easily find out the registration plate. Hence, kindly change the terms "Wanted, Suspicious and Stolen" as Whitelist and Blacklist	As per RFP
76	Functional Requirement Specifications 3. Speed Violation Detection (SVD)>A	24	The system should be video based speed violation detection system and no other element like laser, radar, sensor and loop etc. to be used for speed detection.	In intelligent Traffic Management system, it is must to meet the accuracy level of the system performance with the real time. Video Based solution may not provide that much of accuracy level of the violations data and hence the system performance to meet the real time data can be affected. The latest technology of taking the speed is RADAR which works on "Doppler Effect" methodology to give the best performance to the accuracy of the	Please read as: The system should be video/ laser/ radar/ sensor and loop based or hybrid speed violation detection system

Sl. #	Section in RFP	RFP Ref. Page No	RFP Reference Clause	Clarifications/ Suggestions/Amendments by Vendors/Bidders	Responses to Bidders
				<p>speed of any vehicles. It is proved, in artificial intelligence that to get the best result with the help of RADAR. Also, the video based analytic is not good for this real time project as this could be place some wrong information of the prosecuted vehicles than the edge base technology. The analytic is in build with the Cameras to provide the exact information. Hence, please change the clause from Video Based to Edge Based solution with RADAR for Speed Violation Detections.</p>	
77	Functional Requirement Specifications>3. Speed Violation Detection (SVD)>B	24	<p>The offered system should be able to detect vehicle license plates along with speed violation detection for vehicles having speed even more than 250 KMPH (with suitable camera with required frame rate within 3 Sec) and exceeding the speed limit as earmarked across the stretch with an accuracy of at least ± 2KMPH. The system should generate an automatic alert in case of</p>	<p>With the experience of the performance of such intelligence system can be detect vehicle at the higher speed but there is recommendation of the speed would be 120 KMPH to get the best result than 250 KMPH. The image quality does not provide that much of clarity at 250 KMPH. Hence, please help to change 120 KMPH</p>	<p>Please read as: The offered system should be able to detect vehicle license plates along with speed violation detection for vehicles having speed up to 200 KMPH (with suitable camera with required frame rate within 3 Sec) and exceeding the speed limit as earmarked across the stretch with an accuracy of at least ± 3KMPH. The system should generate an automatic alert in case of a speed violation and generate unique case number for each violation detected.</p>

Sl. #	Section in RFP	RFP Ref. Page No	RFP Reference Clause	Clarifications/ Suggestions/Amendments by Vendors/Bidders	Responses to Bidders
			a speed violation and generate unique case number for each violation detected.		
78	Functional Requirement Specifications>3. Speed Violation Detection (SVD)>F	24	The event window should show the video associated with the event. The window should also show at least five snapshots associated with the event.	Generally, for the speed violation, required to have limited snap shots as the vehicle is moving at overspeed. To take the five snapshots at a time, duration of each snaps would be at microseconds which is not recommended technically. To get the proper data the maximum duration can be set in such a way that each and every snap can be detected the vehicle is over speeding at trigger line. Hence, kindly help to change to three snapshots of the event Data.	Please read as: The event window should show the video associated with the event. The window should also show at least three or more snapshots associated with the event.
79	Functional Requirement Specifications>5>Auto matic Number Plate Recognition>C	25	The system should allow the operator to set traffic rule such as “no heavy vehicles during certain	Generally, this type of functions cannot be related with the ANPR system, there should be a separate traffic system which are having this type of options to meet the	As per RFP

Sl. #	Section in RFP	RFP Ref. Page No	RFP Reference Clause	Clarifications/ Suggestions/Amendments by Vendors/Bidders	Responses to Bidders
			time of the day” for selected traffic locations	requirement. Hence, kindly help us to remove this clause from the RFP	
80	Functional Requirement Specifications>6>No Helmet Detection System>B	25	The system should collectively identify and detect the motor bike, the rider and the pillion (if applicable), helmet for the rider and the pillion and the number plate. The system should be able to differentiate between a helmet and various other conditions such as the bald head, person covering the head with a cap or dupatta or turban, or any other headgear including religious beliefs.	System would detect violation on "No-Helmet" in case of the head covered with a cap or dupatta or turban, or any other headgear including religious beliefs. Kindly help us to remove the clause “person covering the head with a cap or dupatta or turban, or any other headgear including religious beliefs" from RFP.	Please read as: The system should collectively identify and detect the motor bike, the rider and the pillion (if applicable), helmet for the rider and the pillion and the number plate. The system should be able to differentiate between a helmet and various other conditions such as the bald head, person covering the head with a cap or dupatta, or any other headgear including religious beliefs.
81	2.6.2 ANPR Cameras and Housing> IR Threshold	27	IR on: 300 Lux IR off: 600 Lux	Generally, the IR Illumination calculated depending on the light condition at day time and night time to enable the IR. The illumination as per the RFP is quite higher. Need to clarify the same.	As per RFP

Sl. #	Section in RFP	RFP Ref. Page No	RFP Reference Clause	Clarifications/ Suggestions/Amendments by Vendors/Bidders	Responses to Bidders
82	2.6.2 ANPR Cameras and Housing> Shutter Time	27	80W, 20 ~ 40deg remote control beam angle	Need to understand the clause	This line is applicable with Beam angle spec only
83	2.6.2 ANPR Cameras and Housing> Housing	27	Weather-proof IP68-rated housing or better	Generally, IP 68 is required for the underwater Camera. As this type of Camera would be installed at outside. Hence, please help to change the rating IP 67 in place of IP68.	Please read as: Weather-proof IP66-rated housing or better
84	24> Network Camera - Technical Specifications> 37>Audio Capability	28	Two-way Audio	Two Way Audio is required for the indoor application only. This type of the network camera is having audio input and output to send the voice signal. Hence, please amend the clause with Audio input and output	As per RFP
85	24> Network Camera - Technical Specifications> 41>Beam Angle	28	80W, 20° ~ 40° remote adjustable	Need to understand the clause	This line is applicable with Beam angle spec only
86	2.6.8 Pole Security / Surveillance Camera> 12>IR Illuminators	37	Built-in IR illuminators, effective up to 25 meters or better, IR LED*10	Now the CCTV is advanced with the EXIR Technology than the traditional IR LEDs. The performance is better than the IR LEDs. Hence, kindly help to remove the IR LED*10	Request to please check IR specification in the corrigendum