

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

CORRIGENDUM-I

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1. RFP KEY EVENTS & DATES

Key Events	Existing Dates	Modified Dates
Last Date & Time for submission of Proposal	27 th January 2021 till 3:00 PM	12 February 2021 till 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: 27th January 2021 Time: 4.00 PM	Place: State Transport Authority, 7th Floor, Conference Hall, Rajaswa Bhawan, Cuttack – 753002 Date: 12 February 2021 Time: 4:00 PM

2. PAYMENT TERMS

SL	Milestone	Payment	Milestone Achievement	Required Documents
A. Gantry Mounted Products (Field)				
I.	Payment for supply of Hardware & Accessories for Field including Warranty Support Charges	50% of cost of Equipment's including Hardware & Accessories including Warranty support charge as per format provided.	Upon Supply of Hardware & Accessories	<ul style="list-style-type: none"> • Invoice of Items • Delivery Challan • Warranty Certificate of OEMs • Insurance Certificates • Certificate by STA
II.	Payment for Installation of hardware & Accessories for Field including Warranty support charges	25% of cost of Equipment including Hardware & Accessories including Warranty support charge on its installation and successful commissioning as per format provided	Upon installation and commissioning of Hardware & Accessories	Commissioning Certificate from STA
III.	Payment for Installation of hardware & Accessories for Field Warranty support charges	15% of cost of Equipment including Hardware & Accessories including Warranty support charge on its installation and commissioning as per format provided	After successful Go-Live for all locations	Go-Live Certificate from STA
IV.	Payment for supply of Hardware & Accessories for Field including Warranty Support Charges	10% of cost of Equipment including Hardware & Accessories including Warranty support charge on its installation and commissioning as per format provided	Upon submission of Quarterly Performance Report (QPR)	Acceptance of the QPR by STA for each quarter.
B. Civil & Cabling products (Field)				
I.	Civil Work	100% of the cost quoted as per format	Upon successful erection and commissioning of the Gantry across all locations	Completion Certificate from STA or designated members as appointed by STA
I.	Cabling products (Field) & others	100 % of the cost quoted as per format	After successful Go-Live for all locations	Go-Live Certificate from STA
C. Centralized Software Products				

SL	Milestone	Payment	Milestone Achievement	Required Documents
I.	Payment for supply, Installation, Commissioning of Centralized Software	90% of the cost quoted as per format	After successful Go-Live for all locations	Go-Live Certificate from STA
I.	Payment for supply, Installation, Commissioning & Maintenance of Centralized Software	10% of the cost quoted as per format	Upon submission of Quarterly Performance Report (QPR)	Acceptance of the QPR by STA for each quarter.
D. Command Control Room Products				
I	Payment for supply of Hardware & Accessories for Command Center including Warranty Support Charges	50% of cost of Equipment's including Hardware & Accessories including Warranty support charge as per format provided.	Upon Supply of Hardware & Accessories	<ul style="list-style-type: none"> • Invoice of Items • Delivery Challan • Warranty Certificate of OEMs • Insurance Certificates • Acceptance by STA
II	Payment for Installation of hardware & Accessories for Command Center including Warranty support charges	25% of cost of Equipment including Hardware & Accessories including Warranty support charge on its installation and successful commissioning as per format provided	Upon installation and commissioning of Hardware & Accessories	Commissioning Certificate from STA
III	Payment for Installation of hardware & Accessories for Command Center including Warranty support charges	15% of cost of Equipment including Hardware & Accessories including Warranty support charge on its installation and commissioning as per format provided	After successful Go-Live for all locations	Go-Live Certificate from STA
IV	Payment for supply of Hardware & Accessories for Command Center including Warranty Support Charges	10% of cost of Equipment including Hardware & Accessories including Warranty support charge on its installation and commissioning as per format provided.	Upon submission of Quarterly Performance Report	Acceptance of the QPR by STA for each quarter.
E. License for field equipment's connectivity & Integration, Training				

SL	Milestone	Payment	Milestone Achievement	Required Documents
I.	License Cost for Camera, LPU etc.	100% of quoted value as per format provided	After successful Go-Live for all locations	Go-Live Certificate from STA
I.	Integration, Training	100% of quoted value as per format provided	After successful Go-Live for all locations	<ul style="list-style-type: none"> • Go-Live Certificate from STA • Training Completion Certificate from STA
I.	AMC cost	Total AMC cost will be paid in quarterly basis	Upon submission of Quarterly Performance Report	Acceptance of the QPR by STA for each quarter.

3. MODIFICATIONS / AMENDMENTS TO RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
1.	58	5.6	The bidder/ Lead Partner of consortium (in case of Consortium) is required to have minimum cumulative Annual Turnover of Rs. 40.00 Crores in aggregate for the last 3 financial years i.e. 2017-18, FY 2018-19& FY 2019-20and should have minimum turnover of Rs.15 Cr in last financial year (2019-20).	The bidder/ consortium is required to have minimum cumulative Annual Turnover of Rs. 10.00 Crores in aggregate for the last 2 financial years i.e. FY 2018-19& FY 2019-20and should have minimum turnover of Rs.10 Cr in last two financial year (2018-19) & (2019-20).	As per RFP
2.	58	5.6	The Bidder or Lead Bidder (in case of consortium) firm should have its office in Odisha.	The Bidder or consortium firm should have its office in Odisha.	As per RFP
3.	59	5.6	Technical Resource with 7-10 years of relevant experience only and having at least two implementation and integration experiences on the proposed solution in CCTV, Surveillance, ANPR, Networking Domain. Minimum qualification for the resources should be B.E./B.Tech/MCA/ M.Sc. /M. Tech etc. from recognized university and full-time courses.	Technical Resource at least 5 years of relevant experience only and having at least two implementation and integration experiences on the proposed solution in CCTV, Surveillance, ANPR, Networking Domain. Minimum qualification for the resources should be B.E./B.Tech/MCA/ M.Sc. /M. Tech etc. from recognized university and full-time courses.	As per RFP

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4.	60	5.6	<p>Minimum three years of experience of the bidder,(in case of Consortium Prime bidder) in IT/ ICT infrastructure projects / CCTV Surveillance System / Smart City/ City wide Surveillance system in last 3 .</p> <p>Additional 2 marks for bidder (Prime bidder, in case of Consortium) if they have R&D Facility, at least 2 Patents filed in CCTV, Surveillance system. Subject to maximum up to 7 years of relevant experience</p>	<p>Minimum three years of experience of the bidder or Consortium in IT/ ICT infrastructure projects / CCTV Surveillance System / Smart City/ City wide Surveillance system in last 3 . Additional 2 marks for bidder or Consortium) if they have project Completion certificates , at least 2 Patents filed in CCTV, Surveillance system. Subject to maximum up to 7 years of relevant experience</p>	As per RFP
5.	61	5.7	<ul style="list-style-type: none"> · Project of 100-150 Cameras= 3marks · Project of 151-300 Cameras= 6marks · Project of 301 - 450 Cameras= 9 marks · Project of 451-600 Cameras= 12 marks · Project of 601-750& more Cameras = 15 marks 	<ul style="list-style-type: none"> · Project of 100-150 Cameras= 3marks · Project of 151-200 Cameras= 6marks · Project of 201 -250 Cameras= 9 marks · Project of 251-300 Cameras= 12 marks · Project of 301-350& more Cameras = 15 marks (Completion certificate / Performance Certificate must be enclosed) 	As per RFP

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6.	62	5.7	Valid Certification copy should certify from NABL accredited laboratory of Government of India	The technology should have been certified/tested by a reputed Indian test laboratory or institute under central government. Such certificate/test report should be submitted along with PQ bid.	As per RFP
7.	OEM Criteria			It is requested to please add "ANPR System OEM should have supplied ANPR cameras in minimum 2 city in Orissa"	As per RFP
8.	Page no:30, 3.6.1.	Local Processing Unit (LPU)		It is requested to please change this clause to " Bidder to consider the solution design in such a way that any LPUs failure at any place shall not result in failure of more than one lane"	As per RFP
9.	Page no:30, 3.6.1.	Local Processing Unit (LPU)		The LPU without dependency on the outdoor housing should be IP67 rated for dust and water resistance.	Amendment: Weather-proof IP66-rated housing or better
10.	Page no: 30, 3.6.2.	ANPR Cameras and Housing		The ANPR cameras should be able to store more than 50000 ANPR reads on the inbuilt storage in case of network failure.	As per RFP
11.	Page no: 30, 3.6.2.	ANPR Cameras and Housing		The best vendors around the world provide the ANPR processing on the camera itself. Request you to please confirm whether the bidder is allowed to quote the inbuilt ANPR solution if the same meets the required functional requirement.	As per RFP

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12.	Page No: 25, 3.5	Functional Requirement Specifications (FRS)	<p>The traffic violation detection system should detect the following traffic rules violations:</p> <p>Automatic Number Plate Recognition and detection of all vehicles passing and offending against:</p> <ol style="list-style-type: none"> 1. Speed Violation 2. No Helmet 3. Triple Ride 4. Reverse Lane Riding 5. Wrong Lane Driving 	<p>Request you to please amend the clause to " The traffic violation detection system should detect the following traffic rules violations:</p> <p>Automatic Number Plate Recognition and detection of all vehicles passing and offending against:</p> <ol style="list-style-type: none"> 1. Speed Violation 2. No Helmet 3. Triple Ride " <p>The other violations like wrong lane driving, reverse lane driving give more false alarm than the correct alarms which may in future bring the disrepute to department.</p>	As per RFP

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13.	Page no: 26,	Speed Violation detection		The department is requested to please mention either of the technologies as the Radar based systems are more accurate than video-based systems and are expensive also. If the choice is given to the bidder they may choose the video based SVD as it will be very less accurate and will come at cheaper cost. Also, if the video based SVD is considered, it is requested to consider average speed detection over spot speed as people may slow at the place where cameras are installed and drive faster on the no camera stretch.	As per RFP
14.	Page no: 26,	Speed Violation detection	The technology should have been certified/tested by a reputed Indian test laboratory or institute under central government. Such certificate/test report should be submitted along with PQ bid.	Request you to remove the clause as it favors one specific vendor and doesn't allow world's best OEM to participate.	As per RFP
15.	Page No: 27,	Management System Analytics	Remove clause	Request you to remove the clause as the violations required are already mentioned in point no: 1 of FRS. Also, Most of the mentioned requirements are not required on Highways.	As per RFP
16.	Page no: 28,	8 General System Features		The ANPR camera and the ANPR software should be from same OEM to maintain interoperability	As per RFP

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17.	Page no: 28,	8 General System Features		The Proposed VMS Solution Shall support native Fail over with in application with no dependency on any external application for both hardware and application redundancy.	As per RFP
18.	Page no: 28,	8 General System Features		The ANPR Platform shall be an IP enabled solution. All communication between the SSM and ANPR Platform shall be based on standard TCP/IP protocol and shall use TLS encryption with digital certificates to secure the communication channel.	As per RFP
19.	Page no: 28,	8 General System Features		Detailed system care statistics will be available through a web-based dashboard providing health metrics of ANPR Platform including Uptime and mean-time-between-failures.	Already mentioned in published RFP
20.	Page no: 28,	8 General System Features		A web-based, centralized health dashboard shall be available to remotely view unit and role and status of the ANPR devices.	Already mentioned in published RFP
21.	Page no: 28,	8 General System Features		The ANPR Platform shall support the generation of user activity trails. User activity trails shall consist of logs of operator activity on the ANPR Platform such as login, ALPR event viewed, hotlist edits, camera viewed, badge printing, video export, and more.	Already mentioned in published RFP

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22.	Additional Clause			The overall requirement will also require the video management software to view the cameras on central system. Request you to please include the specifications of the same.	Already mentioned in published RFP
23.	Page no:62,	C. Product Technical Compliance 10 Marks	Certificate for Speed violation detection	This certification is restrictive and OEM specific. Request you to consider Cybersecurity certification like UL, CERN etc because there is a lot of cyberinfringement in today's pandemic time and each cyber breach is costing nothing less than 2 to 3 Mn dollars.	As per RFP
24.	Page no:62,	C. Product Technical Compliance 10 Marks		CMMI level 3 certificates are for services company and doesn't apply to product development. You are requested to please consider ISO27001 in place of CMMI level3 for information management.	Already mentioned in published RFP

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25.	7	A. Letter of Invitation	The bidder also needs to submit a Compact Disc (CD) containing the soft copy version of the PQ Documents. They shall also ensure that each file size of their submitted documents in CD should not exceed 20MB [e.g. if all the supporting documents for Pre-Qualification be 75 MB (Master Copy), then the master copy be split into 4 files or sections of sizes 20 MB + 20 MB +20 MB + 15 MB] and posted in CD under PQ Document Folder.	Please confirm the below understanding on bid submission process. 1. Bid submission process is entirely offline. The Bidder needs to submit Tender fees, Pre-Qualification Bid, Technical Bid and Commercial bid in separate envelopes and must be sealed in a master envelope. 2. One soft copy each of Pre-Qualification Bid and Technical Bid must be submitted in a CD and these CDs must be sealed inside the concerned envelope itself.	Yes, understanding is correct 1. Bid Submission process is Offline 2. CD must be submitted for PQ and TQ and must be sealed in respective envelope Amendment: CD must be submitted for Commercial Bid also along with hard copies and be sealed in Envelope IV - Commercial Bid Envelope. Thus, "No CD to be submitted for Financial Bid" - stands cancelled
26.	7	A. Letter of Invitation	Envelope –IV (Submission of Financial Proposal Documents) : Response to FINANCIAL / COMMERCIAL BID with full price details (Microsoft excel format- BOQ as well as PDF of other financial formats mentioned in the RFP) needs to be super scribed as “Commercial Bid”. The financials need to comply in prescribed excel and format only. No CD to be submitted for Financial Bid.	Clause mentions about following excel formats. Whereas, based on the given guidelines for submission, we understand that the Commercial Bid needs to be submitted in hard copy. Please confirm that Commercial bid in hardcopy using the RFP formats is the submission requirement.	Commercial need to be submitted in hard copy, Formats for Financial numbers must be in format prescribed in the RFP Amendment: CD must be submitted for Commercial Bid also along with hard copies and be sealed in Envelope IV - Commercial Bid Envelope. Thus, "No CD to be submitted for Financial Bid" - stands cancelled

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27.	26	3.5 Functional Requirement Specifications (FRS)	The technology should have been certified/tested by a reputed Indian test laboratory or institute under central government. Such certificate/test report should be submitted along with PQ bid.	RFP already allowed SVD based on radar also. As most of radars are international brands, and various Indian govt bodies are accepting speed violation detection system tested and certified by internationally accredited agencies in Indian tenders. Request authority to accept the same for evaluation.	As per RFP
28.	28	3.5 Functional Requirement Specifications (FRS)	The Software OEM must satisfactory running certificate for roadside installation from any Government Department.	We hope the " <u>running certificate</u> " refers to client certificate for satisfactory project completion and such client certificate for a project which is currently under active O&M is sufficient to meet the requirement. Please confirm.	Yes confirmed. Certificate for end customer needs to be submitted along with the Bid documents and needs to be complied.
29.	28	3.5 Functional Requirement Specifications (FRS)	Vulnerability Assessment and Penetration Testing (VAPT) audit for the ITMS software is a must requirement, and the application has to follow the OWASP guidelines. Certificate for the VAPT audit report in the name of software OEM need to be submitted.	Request authority to remove the VAPT audit report requirement, which is not a common requirement in similar projects.	Amendment: Vulnerability Assessment and Penetration Testing (VAPT) audit for the ITMS software is a must requirement, and the application has to follow the OWASP guidelines. Certificate for the VAPT audit report from CERT-IN empanelled agencies in the name of software OEM need to be submitted.

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30.	49	4. Instructions to Bidders	Envelope –IV (Submission of Financial Proposal Documents) :Response to FINANCIAL / COMMERCIAL BID with full price details (Microsoft excel format-BOQ as well as PDF of other financial formats mentioned in the RFP) needs to be super scribed as “Commercial Bid”. The Microsoft excel format need to comply with the submission of their financials in prescribed excel and format only.	The clause mentions about excel format BOQ, which is not provided with the RFP document. Since the submission process is mentioned to be offline, file format is irrelevant. Also RFP mentions that, soft copy of the commercial bid is not required. Please give clarity on this clause and commercial bid submission process.	For Financial Format (preference Excel Format), please refer Clause 7.10 - 7.17 (Page 104 - 107) Submission is Offline Amendment: CD must be submitted for Commercial Bid also along with hard copies and be sealed in Envelope IV - Commercial Bid Envelope. Thus, "No CD to be submitted for Financial Bid" - stands cancelled
31.	49	4. Instructions to Bidders	Only detailed complete bids in the prescribed forms and templates indicated in the RFP shall be received prior to Tender cannot be pre-opened and cannot be submitted after due date and time. Therefore, only after satisfying that all the documents have been uploaded, the Bidder should activate submit button. Any lapse in submission of the required documents is responsibility of the bidder only.	This clause is creating ambiguity regarding bid submission process. Earlier clauses are mentioning about offline submission process, whereas this clause mentions about online submission process. Please confirm the bid submission mode. Considering the current pandemic situation, we would appreciate the submission in online mode. Please consider the same.	Bid submission is Offline mode.

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32.	53	4. Instructions to Bidders	All bidders shall furnish, as part of its Pre-Qualification Bid, an Earnest Money Deposit / Bid Security amounting to Rs.35, 00,000 (Thirty-five Lakh only). Bids without this bid security/ EMD will be rejected.	Requesting authority to allow EMD exemption for MSME bidders, which is commonly allowed in public tenders.	Amendment: EMD exemption for MSME Bidders will be accepted. The Bidder needs to provide MSME Details in Envelope 1
33.	53	4. Instructions to Bidders	The successful bidder's Bid security will be released upon the bidder signing the Contract Agreement, and they should furnish the Performance Bank Guarantee (PBG) Security of 10 % of the contract value and validity till closure of the project.	As per the recent Memorandum issued by Ministry of Finance dated 12 November 2020 on Rule 171 of General Financial Rules (GFRs) 2017 related to Performance Security in all public tenders, Govt of India has stipulated that the performance security requirement in any Indian public tender must be limited to maximum 3% of the contract value. We request authority to amend the Performance security for this tender to 3% of contract value as per Govt of India guidelines.	Amendment: The successful bidder's Bid security will be released upon the bidder signing the Contract Agreement, and they should furnish the Performance Bank Guarantee (PBG) Security of 3% of the contract value and validity till closure of the project.

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34.	56	5. Tender Evaluation	The Proposal Evaluation Committee constituted by the Office of the Transport Commissioner shall evaluate the responses to the RFP and all supporting documents & documentary evidence. Inability to submit requisite supporting documents or documentary evidence, may lead to rejection of the Proposal or may be blacklisted or debarred.	The failure of a bidder to provide any supporting documents during bid evaluation does not provide any grounds for blacklisting or debarring the bidder and this is not a practice followed by any of the tendering authority in India in public tenders. Evaluation committee can ask for clarifications & shortfall documents from the bidder. Such an unrealistic clause for blacklisting will not encourage potential bidders to participate in the tendering process. Please remove the "blacklisting or debarring" reference from the clause.	Amendment: The Proposal Evaluation Committee constituted by the Office of the Transport Commissioner shall evaluate the responses to the RFP and all supporting documents & documentary evidence. Inability to submit requisite supporting documents or documentary evidence and furnishing forged documents (if found at any stage of the project / selection process) may lead to rejection of the Proposal.
35.	56	5. Tender Evaluation	During the POC, the bidders need to conduct the demonstration with their proposed Equipments and Solution as mentioned in their submitted document, if any deviation is noticed in any respect, the bidder will be blacklisted.	Such an unrealistic clause will not encourage potential bidders to participate in the tendering process. Minor deviations or non-performance in POC is common in bid evaluation process, which can maximum lead to a disqualification in Indian tenders. Bidders will only have the genuine interest to successfully demonstrate POC with an intention of winning in the tendering process. Requesting authority to remove the "blacklisting" reference.	As per RFP

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36.	57	5. Tender Evaluation	All the supporting documents of hardware specifications (datasheet etc.) should be available in the public portal also & the committee may validate the documents. In case of non-availability of such documents in the public portal will lead the bid to rejection.	This is an uncommon requirement mentioned here. It is not always mandatory that the OEMs will regularly update their web-portal with the latest product datasheets and information, as there can be customization of the product based on the RFP requirements. These are not in the control of the bidder and mandating such a requirement will not allow the bidder to quote the best available product/technology for this project. Requesting authority to remove this clause.	As per RFP

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37.	58	5.6 Pre-Qualifications Evaluation	This is an open tender and thus bids are invited from all the vendors, who qualify the eligibility criteria mentioned herein along with Technical criteria mentioned as part of the RFP.	<p>In majority of the similar govt tenders in recent time has allowed the bidder to use its Parent company experience for meeting the Pre-Qualification and technical evaluation criteria, such that the bidder must be a 100% subsidiary of its parent company.</p> <p>Even during the previous tendering stage of this same project in 2018-19, Office of the Transport Commissioner, Odisha has allowed bidder to use its parent company experience (in same domain) through a corrigendum.</p> <p>We request authority to allow the bidder (Any member in case of consortium) to use its parent company experience (in same domain) for meeting the tender evaluation criteria. This will ensure that authority will receive more competitive bids for evaluation.</p>	Accepted, however, Lead Bidder (in case of consortium) to use its parent company experience (in same domain) for meeting the tender evaluation criteria.

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38.	58	5.6 Pre-Qualifications Evaluation	The bidder or lead bidder (in case of consortium) should have past experience in implementing and developing large scale CCTV / surveillance / video analytics applications and solutions, having domain knowledge of intelligent traffic management or enforcement management to work with government bodies and organizations.	<p>Entities form a consortium for the purpose of meeting the project requirements. It will not be mandatory that that the lead bidder will be an entity with such experience, where the lead bidder will form consortium with a technology partner as a consortium member.</p> <p><u>We request authority to kindly amend the given clause as below:</u> "The bidder or Consortium should have past experience in implementing and developing large scale CCTV / surveillance / video analytics applications and solutions, having domain knowledge of intelligent traffic management or enforcement management to work with government bodies and organizations"</p>	As per RFP
39.	58	5.6 Pre-Qualifications Evaluation	The Lead bidder and all the consortium partners (in case of Consortium) should be registered under the Companies Act, 1956 and in existence for at least 5 years (as on 31st March 2015) should be in related field	We hope this is a typo error. We hope this should be "as on 31st March 2020". Please confirm.	Amendment: The Lead bidder and all the consortium partners (in case of Consortium) should be registered under the Companies Act, 1956 and in existence for at least 5 years (as on 31st March 2020) should be in related field

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40.	58	5.6 Pre-Qualifications Evaluation	The bidder/ Lead Partner of consortium (in case of Consortium) is required to have minimum cumulative Annual Turnover of Rs. 40.00 Crores in aggregate for the last 3 financial years i.e. 2017-18, FY 2018-19 & FY 2019-20 and should have minimum turnover of Rs.15 Cr in last financial year (2019-20).	Since the pandemic has caused delays in the auditing of FY 2019-20, bidders will face challenges in producing the audited financials of FY 2019-20. We request authority to kindly consider the financials of FY 2016-17, 2017-18 and 2018-19 for tender evaluation.	As per RFP
41.	58	5.6 Pre-Qualifications Evaluation	<ul style="list-style-type: none"> • Audited Balance sheet and Profit & Loss account statement of the Bidder/each Partner (in case of Consortium) for each of the last 3 FYs. • Certificate duly signed by Statutory Auditor/CA of the Bidder /respective Consortium Partner (in case of Consortium) 	<p>As per RFP criteria, the annual turnover is applicable for the lead partner only (in case of consortium). Whereas the documentary requirement is mentioned to applicable for all consortium partners also. We hope this is a typo error.</p> <p><u>Please amend the clause as below:</u></p> <ul style="list-style-type: none"> • Audited Balance sheet and Profit & Loss account statement of the Bidder/Lead partner (in case of Consortium) for each of the last 3 FYs. • Certificate duly signed by Statutory Auditor/CA of the Bidder /Lead Partner (in case of Consortium) 	As per RFP

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42.	60	5.6 Pre-Qualifications Evaluation	The resources mentioned during bid submission should be deployed for the project implementation phase onsite at Cuttack. No replacement of resources will be entertained.	Since the resource proposed during the bid stage can become unavailable during the project implementation phase due to reason out of control of the bidder including resignations, personal reasons of the resource and any medical requirements. Requesting authority to relax the requirement and allow bidder to replace such resources with equivalent or higher qualifications with approval of Office of the Transport Authority.	Amendment: The resources mentioned during bid submission should be deployed for the project implementation phase onsite at Cuttack. Bidder can replace resources with equivalent or higher qualifications with approval of Office of the Transport Authority for two instances only
43.	61	5.7 Technical Evaluation	<ul style="list-style-type: none"> • 3 Years – 3 Marks • 5 Years – 5 Marks • 7 Years – 7 Marks • 10 Years – 10 Marks Additional 2 marks for bidder (Prime bidder, in case of Consortium) if they have R&D Facility, at least 2 Patents filed in CCTV, Surveillance system. Subject to maximum up to 7 years of relevant experience.	Maximum marks allocated for this criterion is 10 marks. It has been mentioned that for 10 years of experience, bidder gets 10 marks. Please clarify how the scoring will be considered for additional 2 marks, if the bidder has 10 years of experience plus R&D facility with 2 patents ?	Amendment in Marking Criteria under Company Competence: <ul style="list-style-type: none"> • 3 Years – 3 Marks • 5 Years – 5 Marks • 7 Years – 7 Marks • 10 Years – 10 Marks

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44.	62	5.7 Technical Evaluation	Design & Implementation of IT/ICT infrastructure projects and City-wide CCTV Surveillance System / Smart City / all with the Value of projects minimum 1 Cr. Each in last 5 financial years in India	<p>Request authority to accept global projects and consider projects implemented in last 7 financial years.</p> <p><u>Please amend as below:</u> Design & Implementation of IT/ICT infrastructure projects and City-wide CCTV Surveillance System / Smart City / all with the Value of projects minimum 1 Cr. Each in last 7 financial years in India/abroad.</p>	As per RFP
45.	62	5.7 Technical Evaluation	Integration of CCTV based Public Safety and Traffic Control services over minimum 150 IP cameras during last 5 financial years in India	<p>1. Request authority to accept global projects and consider projects implemented in last 7 financial years.</p> <p>2. Since the project objective is traffic surveillance and enforcement, we request authority to evaluate traffic surveillance experience of the bidder.</p> <p><u>Please amend the criteria as below:</u> Integration of CCTV based traffic surveillance/enforcement over minimum 150 IP cameras during last 7 financial years in India/abroad.</p>	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
46.	62	5.7 Technical Evaluation	Project for maintenance of fully IP based CCTV surveillance for ITMS/ Smart City/ Airport / any Ministry/ Department of GoI/ UT Government/State Government Organizations in last 5 financial years in India	Request authority to accept global projects and consider projects implemented in last 7 financial years. <u>Please amend the criteria as below:</u> Project for maintenance of fully IP based CCTV surveillance for ITMS/ Smart City/ Airport / any Ministry/ Department of GoI/ UT Government/State Government Organizations in last 7 financial years in India/abroad.	As per RFP
47.	62	5.7 Technical Evaluation	Valid Certification copy should certify from NABL accredited laboratory of Government of India	Similar Indian tenders in recent past has accepted speed violation detection system tested and certified by internationally accredited agencies. <u>Request authority to accept the same here and amend as below:</u> "Valid Certification copy should certify from NABL accredited laboratory of Government of India OR from any internationally accredited agencies authorized to do speed violation detection system certification.	As per RFP
48.	62	5.7 Technical Evaluation	CMMI level 3 certificate	<u>Request to amend the criteria as:</u> Bidder/any member (in case of consortium) should have CMMI level 3 certificate	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
49.	63	5.7 Technical Evaluation	Bidder who did not score the pass mark in the POC shall be rejected & shall not enter into the Financial evaluation irrespective of the total technical score.	How much is the pass mark for POC ?	POC evaluation criteria including marks distribution, pass marks etc. will be communicated to the eligible bidders at later stages during the TQ Evaluation, before conducting the POC
50.	64	5.7 Technical Evaluation	During the POC, the bidders need to conduct the demonstration with their proposed Equipments and Solution as mentioned in their submitted document, if any deviation is noticed in any respect during any stage of POC or after, the bidder will be blacklisted.	Blacklisting a bidder based on under-performance in a POC is not a practice followed in any public tendering authority in India. Also POC performance doesn't provide any grounds for blacklisting a bidder, as blacklisting is an extreme action taken against unfair & corruptive activities or deliberate under-performance in project executions. Please remove this clause from RFP.	As per RFP
51.	74-76	6.3 Payment Terms	10% of cost upon submission of Quarterly Performance Report	Against the Sl. Nos. A (iv), C (ii), & D (iv), remaining payment of 10% is mentioned to be paid upon submission of Quarterly Performance Report. Will this 10% value will be paid as equal quarterly installments ?	10% payment will be paid in equal quarterly instalment

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
52.	92	6.25.2 SLA during Post-Implementation Period (Operations & Maintenance Phase)	Gantry Mounted & CCC Product Uptime Uptime >= 99.5 % Uptime less than 99.5 % to 95 % Uptime less than 95 % to 90 % Uptime less than 90 % to 85 % Uptime less than 85%	Considering the extreme climatic conditions in Odisha, the uptime requirement given for field devices is stringent and challenging for the System integrators. <u>Request to relax the uptime requirement as below:</u> Uptime >= 97 % Uptime less than 97% to 95 % Uptime less than 95 % to 90 % Uptime less than 90 % to 85 % Uptime less than 85%	As Per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
53.	11	1.1.1 ANPR for Speed Detection System	One camera per lane will be placed to capture the registration plate and the camera system will be running in the local processing units (at nodes) which continuously analyses the pictures and video streaming, such that if any violation is detected by the system by any vehicle, its registration plate will be captured (number plate Capture rate shall be minimum 95%) and Optical Character Recognition (OCR conversion accuracy should be at least 90% for HSRP during day& night time across all weather conditions; 90% for Standard Number Plates during day & night time across all weather conditions) will extract the registration plate number of that violating vehicle with machine readable format for further processing.	<p>OCR accuracy requirement of 90% is challenging considering the readability issues in Indian number plates and whether conditions. Large vehicles like trucks will have torn number plates and some vehicles uses fancy fonts also. Considering these, we request authority to relax the accuracy requirement to 80% for HSRP and standard number plates during day time and 60% during night time.</p> <p>Non-standard number plates and handwritten number plates are observed in Indian two wheelers and three wheelers and are challenging to OCR. Hence request to avoid accuracy requirement for two wheelers and three wheelers.</p>	Amendment: OCR conversion accuracy should be at least 95% for HSRP during day & night time across all weather conditions; 90% for Standard Number Plates during day & night time across all weather conditions
54.	15	1.3.2 Office of Transport Commissioner	To provide the raw power with required sockets, network connectivity, any required clearance from respective departments etc.	Hope the recurring electricity charges will also be borne by authority itself. Please confirm.	Electricity charges will be borne by STA

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
55.	19	3. Scope of Work	It is also to be noted that the software application developed by the selected SI must be certified by STQC/CERT-IN authority prior Go-Live and the certificate needs to be submitted to the STA authority for hosting the application.	Requesting authority to remove the STQC/CERT-IN requirement.	As per RFP
56.	20	3.1 Scope of Work for System Integrator	The number of nodes including cameras and associated units as decided by Office of Transport Commissioner may be increased during award of contract or anytime during the project period and the quoted unit prices of items in the bid shall hold good. No revision of unit prices will be considered for the additional nodes during the course of the project period.	Please clarify the maximum possible variation in quantity the bidder can expect.	Bidder is requested to estimate as per their own provision. STA is not a position to reveal the requirements at this point of time.
57.	30	3.6 Technical Specifications	Make : To be clearly mentioned. All the relevant product brochures, manuals, licenses must be submitted. Model : To be clearly mentioned. All the relevant product brochures, manuals, licenses must be submitted	Software licenses are normally delivered during project implementation time. Request authority to remove the "license" clause here.	Amendment: Make & Model of the proposed assets to be clearly mentioned & all the relevant product brochures, manuals must be submitted during bid submission and licenses must be submitted during implementation phase.

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
58.	36	3.6 Technical Specifications	<p>Make : To be clearly mentioned. All the relevant product brochures, manuals, licenses must be submitted.</p> <p>Model : To be clearly mentioned. All the relevant product brochures, manuals, licenses must be submitted</p>	Software licenses are normally delivered during project implementation time. Request authority to remove the "license" clause here.	Amendment: Make & Model of the proposed assets to be clearly mentioned & all the relevant product brochures, manuals must be submitted during bid submission and licenses must be submitted during implementation phase.
59.	37	3.6 Technical Specifications	<p>Make : To be clearly mentioned. All the relevant product brochures, manuals, licenses must be submitted.</p> <p>Model : To be clearly mentioned. All the relevant product brochures, manuals, licenses must be submitted</p>	Software licenses are normally delivered during project implementation time. Request authority to remove the "license" clause here.	Amendment: Make & Model of the proposed assets to be clearly mentioned & all the relevant product brochures, manuals must be submitted during bid submission and licenses must be submitted during implementation phase.
60.	43	3.6 Technical Specifications	Sl. No -55. Launch Application : Software should be able to support	Seems like the specification is incomplete. Please clarify.	As per RFP. It is complete requirement

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
61.	44	3.6 Technical Specifications	Radar Based Speed Display System	<p>Our understanding is, this refers to Vehicle actuated speed display.</p> <ol style="list-style-type: none"> 1. Please clarify whether the count of display boards are same as SVD requirement of 40 Nos. ? 2. Does these displays are proposed for both directions ? 3. Proposed system typically is a closed system which displays instant speed on displays boards. Does the SI need to integrate this system to the central system ? 	<p>Amendment :</p> <p>The Radar based solar powered speed detection system is completely independent & standalone system which will not be integrated with the central software at this point of time. Similarly, neither those locations have main/raw power nor any network connectivity, also it will not be integrated with the e-challan system as well. It will display the speed of the vehicle & main goal is to make the vehicle drivers aware of their driving speed & helps in reducing the road accident.</p>
62.	100	7. Forms and Formats	We also confirm that products quoted and supplied by the supplier are not end-of-life and end of support for the further period of 5 years.	<p>The electronic components can be declared end of life based on the upgradation in technology. This is generally beyond the control of bidder and OEM. However, SI will ensure (through OEM) support for the offered product for 5 years. Hence request authority to remove "End of life" from the given clause.</p>	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
63.	121	7. Forms and Formats	The bidder/ Lead Partner of consortium (in case of Consortium) is required to have minimum cumulative Annual Turnover of Rs. 40.00 Crores in aggregate for the last 3 financial years i.e. 2017-18, FY 2018-19 & FY 2019-20 and should have minimum turnover of Rs.15 Cr in last financial year (2019-20).	Since the pandemic has caused delays in the auditing of FY 2019-20, bidders will face challenges in producing the audited financials of FY 2019-20. We request authority to kindly consider the financials of FY 2016-17, 2017-18 and 2018-19 for tender evaluation.	As per RFP
64.	121	7. Forms and Formats	<ul style="list-style-type: none"> • Audited Balance sheet and Profit & Loss account statement of the Bidder / each Partner (in case of Consortium) for each of the last 3 FYs • Certificate duly signed by Statutory Auditor / CA of the Bidder / respective Consortium Partner (in case of Consortium) 	<p>As per RFP criteria, the annual turnover is applicable for the lead partner only (in case of consortium). Whereas the documentary requirement is mentioned to applicable for all consortium partners also. We hope this is a typo error.</p> <p><u>Please amend the clause as below:</u></p> <ul style="list-style-type: none"> • Audited Balance sheet and Profit & Loss account statement of the Bidder/Lead partner (in case of Consortium) for each of the last 3 FYs. • Certificate duly signed by Statutory Auditor/CA of the Bidder /Lead Partner (in case of Consortium) 	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
65.	20	3. Scope of Work	The VPN requirement, if any should be factored by SI. The installation and commissioning of the application servers is the responsibility of the SI, however, the premises for installation will be decided by Office of Transport Commissioner (either OSDC or any other place)	With reference to the statement from RFP, we understand that the system integrator has to size the computing requirements of Data center and install the devices procured by authority. The data center infrastructure and procurement of server, storage, firewall, related software etc. is assumed to be owned by the authority. Please confirm.	AS per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
66.	22	3. Scope of Work	<p>Project Timeline:</p> <ol style="list-style-type: none"> 1. Team Mobilization - T0 2. Submission of Project Charter and detailed project work plan - T0 + 1 week 3. Studying of key functionalities of all applications which to be integrated including engineering, design of the proposed system, final report to be submitted - T0 + 3 weeks 4. Submission of Technical Design Documents, SRS document, GTP Drawings - T0 + 4 weeks 5. Delivery of Cameras and related IT Equipment's and accessories - T0 + 8 weeks. 6. Deployment of application and integration - T0 + 12 weeks 7. User Acceptance Testing for Hardware equipment's & Application software - T0 + 16 weeks 8. Go-Live of the system - T0 + 20 weeks = T1 	<p>The given timeline for implementation is quite challenging considering manufacturing delay for various equipment. Hence authority is requested to extend the implementation timeline as below to ensure smooth execution of project.</p> <p>Project Timeline:</p> <ol style="list-style-type: none"> 1. Team Mobilization - T0 2. Submission of Project Charter and detailed project work plan - T0 + 2 week 3. Studying of key functionalities of all applications which to be integrated including engineering, design of the proposed system, final report to be submitted - T0 + 5 weeks 4. Submission of Technical Design Documents, SRS document, GTP Drawings - T0 + 6 weeks 5. Delivery of Cameras and related IT Equipment's and accessories - T0 + 16 weeks (<u>Procurement is of hardware are generally initiated after milestone 4</u>) 6. Deployment of application and integration - T0 + 22 weeks 7. User Acceptance Testing for Hardware equipment's & Application software - T0 + 26 weeks 8. Go-Live of the system - T0 + 32 weeks = T1 	AS per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
67.	23	3. Scope of Work	A letter of Confirmation (i.e. Manufacturer Authorization Form (MAF) by OEM shall be mandatory during submission of the bid stating that the products/system/solution shall not be "End of Life" and "End of Support" for cumulative 5 years from date of acceptance (go-live). The rate should be quoted inclusive of warranty. Warranty includes Hardware, System Software, Application Software, Network items and or any tangible assets utilized for successful execution of the project for onsite replacement and maintenance support.	The electronic components can be declared end of life based on the upgradation in technology. This is generally beyond the control of bidder and OEM. However, SI will ensure (through OEM) support for the offered product for 5 years. Hence request authority to remove "End of life" from the given clause.	As per RFP
68.	24	3. Scope of Work	F. AMC Cost AMC Cost for 1 year (Maximum 10% on total value A+C+D) AMC Cost for 2 years (Maximum 10% on total A+C+D value)	We understand that the contract period is for 03 years and the 02-year AMC mentioned will be post this 03-year period.	Confirmed, Understanding is correct
69.	108	7. Forms and Formats	AMC Cost for 1 year (Maximum 10% on total value A+C+D) AMC Cost for 2 years (Maximum 10% on total A+C+D value)	The AMC cost asked in section 7.16 is for the 4th and 5th year post the 3-year contract period. Please confirm this is correct	Confirmed, Understanding is correct

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
70.	110	7. Forms and Formats	2. CONTRACT TERM (Timeline for the Project) The Contract period of the project will be for 3 (three) years after Go-Live and Hand Holding Period, which may be extended for further (2) years for AMC, after reviewing the performance of SI by Office of Transport Commissioner.	understanding.	Confirmed, Understanding is correct
71.	108	7. Forms and Formats	Note: <ul style="list-style-type: none"> • AMC cost for 2 years is to be proposed, maximum of 10% of total price quoted for Price bid section A, C & D will be calculated as AMC cost. • The above cost includes AMC for all items and products to be supplied/delivered (Hardware items, civil infrastructure, Solution software etc.) by the selected bidder under this project. 	The AMC cost asked in RFP Page 108, section 7.16 Price Bid F: Annual Maintenance Cost asks to quote maximum 10% on total value A+C+D . Whereas, the note given here mentions that civil infrastructure must be included in this AMC cost. The civil infrastructure is listed under "Price Bid section B ". Price bid B is not included in the above formula for AMC. Please clarify whether the bidder needs to account Price Bid B in the AMC costing.	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
72.	26	3. Scope of Work	<p>3. Speed Violation Detection (SVD): The system should be video/radar-based speed violation detection system to be used for speed detection.</p>	<p>The speed violation system implemented across globe prefers radar-based technology over any other speed detection technology. Radar based speed detection provides most accurate speed reading irrespective of the location, installation angle, weather condition, position of vehicle etc. whereas camera based speed detection depends on these factors and still provides comparatively lower accuracy and even lead to filing of court cases by public, challenging the accuracy of camera based speed detection.</p> <p>The radar also has a superior lane coverage range compared to camera.</p> <p>The most efficient method of speed detection is preferred to be one 2D Radar deployed to cover one lane each. This can help to reduce the single point of failure as well. <u>Hence authority is requested to amend the clause as below:</u></p> <p>The system should be radar-based speed violation detection system where one radar cover one lane each.</p>	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
73.	34	3. Scope of Work	Note: All the cameras, IR illuminators, Housing should be from single OEM.	<p>Cameras and IR illuminators from different OEMs are implemented and working efficiently in several similar projects in India, which does not provide any chance of issues in integration nor any performance concerns.</p> <p>Clause stating single OEM for illuminator and camera can reduce participation of several proven camera OEM who may not have IR illuminator as per the RFP specification. The IR must have a range of 260 meter as per RFP requirement which may not be available with several camera manufacturers.</p> <p>Authority is requested to replace the clause as below in order to increase competency and to avoid any monopoly.</p> <p><u>Request to amend the clause as below:</u></p> <p>Note: All the cameras & Housing should be from single OEM and seamless integration of camera with IR illuminator to be ensured.</p>	Amendment: All the cameras, IR illuminators, housing may be from single or different OEM(s) but for different OEM(s), the bidder needs to ensure seamless integration of camera with IR illuminator, housing, lens.

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74.	26	3. Scope of Work	<p>H. The system should have an option to store certain registration plates of vehicles which are stolen or suspicious. The system should have the functionality to enter such registration 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 registration plate data in the hot lists stored in Excel sheets for batch operation.</p> <p>L. The system should have the functionality to trace the movement of a vehicle of interest on Google Map. The Function should show the trajectory of the vehicle drawn on the map. The vehicle of interest should be tracked for all the locations where it is detected through ANPR.</p>	<p>With the help of hot-listing feature of ANPR, the system automatically pop-ups the alert and convey that listed vehicle has been identified at a specific location. This feature helps to track the hot listed vehicle without help of google map. Integrating with google map for same functionality further increases the cost of the solution which seems to be unnecessary.</p> <p><u>Hence authority is requested to remove the below Clause:</u></p> <p>L. The system should have the functionality to trace the movement of a vehicle of interest on Google Map. The Function should show the trajectory of the vehicle drawn on the map. The vehicle of interest should be tracked for all the locations where it is detected through ANPR.</p>	As per RFP
75.	23	3. Scope of Work	<p>C. Centralized Software Products: 5. Channel license for ANPR camera including speed detection, No Helmet, Triple riding, wrong way driving</p>	<p>Hope the ANPR channel license (138 nos.) includes the reverse lane driving as well. Please confirm.</p>	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
76.	23	3. Scope of Work	C. Centralized Software Products: 2. Supply of channel license for Overview Camera 4 Supply of channel license for Pole security Camera	Authority is requested to confirm what license to be considered for overview camera and pole security camera with all required features to be covered.	The same ITMS software should provide live view license for Overview camera & analytics license for Pole security camera.
77.	23	3. Scope of Work	C. Centralized Software Products: 3. LPU Unit License cost	LPU is a hardware and licenses are applicable for software only. Authority is requested to clarify the intended license for LPU	The same ITMS software should provide LPU license.
78.	23	3. Scope of Work	Rader Based Speed detection system with Solar panel with Pole for installation between 2 gantry location: Qty = 40 Nos	As per the installation locations given in RFP, proposed location count is 24 Nos. Whereas the radar based SVD system requirement is 40 Nos. Please clarify how will be the distribution of these 40 systems among these 24 locations.	Already mentioned in published RFP
79.	23	3. Scope of Work	The BoM items may be revised based on project requirement anytime during the project tenure, and bidder needs to comply with the rate quoted in its bid.	1. Hope the bidder can quote as per the quantity given in the price bid and the same can be finalized during the project survey period. 2. We also hope that the bidder will be paid on actual consumption basis @ unit rate quoted in the BID.	The mentioned BoQ is minimum requirement, the bidder is free and open to quote any additional items as per their solution. The STA may place additional order of any qty as per the BoQ during the project duration.

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
80.	11	1. Introduction	Automatic Number Plate Recognition (ANPR) system shall be capable of capturing the registration plates of any vehicle(s) in the field of view (FOV) of the camera so that even if there is more than one vehicle within the camera FOV, then all of them will be independently processed and their registration plates will be recognized irrespective of the type of vehicle – private car, taxi, bus, truck, auto rickshaw, motorcycle, or any others that require valid registration plates to ply on the road.	In the terms of FOV, since camera is installed and works on per lane basis, when two Truck or Car or Taxi are available, it's not 100% possible to capture the number plate due to width of 4 four-wheeler. But for motorcycles, it can process independently. <u>So kindly amend the clause as below:</u> "Automatic Number Plate Recognition (ANPR) system shall be capable of capturing the registration plates of any vehicle(s) in the field of view (FOV) of the camera ,all of them will be independently processed and their registration plates will be recognized irrespective of the type of vehicle to ply on the road."	As per RFP
81.	12	1. Introduction	If an offence is detected, digital image along with video (as proof of evidence) of the vehicle is recorded. The image clearly shows the color, type, make and number plate of the vehicle. Digital images also include:	Make of a vehicle is identified using integration with RTO database, not by image processing. We hope authority with facilitate the required APIs for integration of the same. Please confirm.	As per RFP
82.	23	3. Scope of Work	Rader Based Speed detection system with Solar panel with Pole for installation between 2 gantry location	Please suggest the battery backup required for Solar System.	Minimum 12 hrs. backup is to be provided

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
83.	23	3. Scope of Work	Variable Messaging Services (VMS) Display Boards	The VMS board spec given in RFP page 45, section 3.6.12 is missing some major specifications. Please suggest the following missing specifications: 1. Size of VMS 2. Pixel Pitch 3. Color Type (Single/Multi) 4. Power Backup	Amendment for Variable Messaging Services (VMS) Display Boards 1. Size of VMS 9 ft x 6ft 2. Pixel pitch DIP P10 3. Color Type Single 4. In-build/ External UPS with minimum 30 mins back time to be factored
84.	28	3. Scope of Work	The system should allow the operator to create continuous recording schedule for the camera based on the time of day and day of week. It should be possible to set the camera recording schedule for a single camera or a group of cameras or all cameras.	As ANPR camera used for only Number plate detection and Overview Bullet camera is used for continuous recording. <u>Request to amend the RFP clause as below:</u> "The system should allow the operator to create continuous recording schedule for the camera based on the time of day and day of week. It should be possible to set the Overview Bullet Camera recording schedule for a single Overview Bullet camera or a group of Overview Bullet cameras or all Overview Bullet cameras".	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
85.	8	B. Fact Sheet	Place: Chatia highway, with gantry structure already present Date: DD MMM 2021 from 11 AM onwards Date will be communicated to eligible bidders along with POC Requirements in due course of time. Time will be given for logistics and preparation.	Considering the present pandemic situation, requesting authority to consider the online POC through demonstration of a similar existing system by the bidder.	As per RFP
86.	13	1.2	Integration with e-Challan, Vahan 4.0 and Sarathi 4.0 for data access along with CCTNS, ERSS, Highway Patrol, Interceptors, IRAD, VLT for data access and transactions.	Will the API for requisite integrations be made available by department?	Office of the Transport Commissioner will facilitate to get the API, SDK.
87.	26	3.5	I. The system should also have the functionality to send the alert via email and SMS to designated email addresses and mobile phone numbers. K.The system should be able to store registration plates numbers of at least 10,000 suspected vehicles at a time and should generate an Alert if any one of the vehicles is found in form of Video popup at the Monitor and/or SMS on Cell phones	Will the cost of sending SMS be borne by department? Overall how many SMS will have to be sent during contract period?	SMS Cost will be borne by Dept. More details will be discussed during implementation

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
88.	50	4.3.1	XI. Bidder to mention the required infra at Odisha State Data center to host the proposed application in their Technical proposal.	<p>In order to do the server sizing, please let us know the following things.</p> <ol style="list-style-type: none"> 1) Maximum concurrent users expected 2) Maximum transactions per day 3) Data size per transaction 4) What's the data backup and retention policy 5) What's the data archival policy 6) What is the DC and DR policy 7) What is the RPO and RTO for DC to DR failover 8) If any document upload, what is the maximum size per document and what is the maximum file uploads per day? 9) Is server maintenance bidders' responsibility? 	It is requested to the bidder to conduct survey at OSDC at their own cost, if required.

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
89.	62	5.7	<p>Minimum three years of experience of the bidder, (in case of Consortium Prime bidder) in IT/ ICT infrastructure projects /CCTV Surveillance System / Smart City/ City wide Surveillance system in last 3 financial years in India.</p> <p>Additional 2 marks for bidder (Prime bidder, in case of Consortium) if they have R&D Facility, at least 2 Patents filed in CCTV, Surveillance system. Subject to maximum up to 7 years of relevant experience</p>	<p>Minimum three years of experience of the bidder, (in case of Consortium Prime bidder) in IT/ ICT infrastructure projects /CCTV Surveillance System / Smart City/ City wide Surveillance system in last 3 financial years in India.</p> <p>Additional 2 marks for bidder or its proposed CCTV OEM if they have R&D Facility, at least 2 Patents filed in CCTV, Surveillance system. Subject to maximum up to 7 years of relevant experience</p>	<p>Amendment under Company Competence:</p> <p>Minimum three years of experience of the bidder, (in case of Consortium Prime bidder) in IT/ ICT infrastructure projects / CCTV Surveillance System / Smart City / City wide Surveillance system in last 3 financial years in India.</p> <p>Marking Criteria 3 Years – 3 Marks • 5 Years – 5 Marks • 7 Years – 7 Marks • 10 Years – 10 Marks</p>
90.	63	5.7	<p>Work Order /Client Certificate/Agreement Copies/ Completion Certificate clearly indicating the scope of work and value of contract and year of engagement.</p>	<p>Work Order /Client Certificate/Agreement Copies/Completion Certificate/Phase Completion clearly indicating the scope of work and value of contract and year of engagement.</p>	As per RFP
91.	63	5.7	<p>Integration of CCTV based Public Safety and Traffic Control services over minimum 150 IP cameras during last 5 financial years in India</p>	<p>Integration of CCTV based Public Safety /Traffic Control services/Smart City over minimum 150 IP cameras during last 5 financial years in India</p>	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
92.	63	5.7	WO/Client Certificate/Agreement Copies/ Completion Certificate clearly indicating the Scope of the Project. The work executed for any Ministry/ Department of Gol/ State/UT Government/ Government Organizations	WO/Client Certificate/Agreement Copies/Completion Certificate/Phase completion clearly indicating the Scope of the Project. The work executed for any Ministry/Department of Gol/State/UT Government/Government Organizations	As per RFP
93.	63	5.7	Certificate for Speed violation detection	We understand that the said certificate required from OEM	Certificate is to be provided by the ITMS Software OEM
94.				Bank detail not mentioned in Tender, Kindly please provide Bank Detail.	DD for Tender Fee needs to be procured from nationalized bank, payable at Cuttack. EMD needs to be procured from nationalized bank in form of DD or BG (as per given format in RFP, Clause 7.2

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
95.	11	1.1.1	its registration plate will be captured (number plate Capture rate shall be minimum 95%) and Optical Character Recognition (OCR conversion accuracy should be at least 90% for HSRP during day& night time across all weather conditions; 90% for Standard Number Plates during day & night time across all weather conditions) will extract the registration plate number of that violating vehicle with machine readable format for further processing	for 1.1.1 all accuracy should be based on standard number plate. But in fact, most of motorcycle and auto rickshaw number plate installation site is different. thus. Request this accuracy is only used for 4-wheelers vehicle for 2 or 3 wheelers ANPR accuracy can be 65% or better, requested to amendment this in tender .	Amendment: OCR conversion accuracy should be at least 95% for HSRP during day & night time across all weather conditions; 90% for Standard Number Plates during day & night time across all weather conditions
96.	23	3.4	ANPR Camera - for 4 lane 12 & 6 Lane 126.	for 3.4 BOQ ,one standard lane width 3.5m, 1 camera for 6lanes means 1 camera should cover 21m width. there is no ANPR camera in the market can support 1 camera cover 6 or 4 lanes. Thus, please clear this point. Request to revised maximum 3 lane per camera .	1 camera per lane. For e.g. 3 lane - 3 cameras and likewise
97.	26	3C	The technology should have been certified/tested by a reputed Indian test laboratory or institute under central government. Such certificate/test report should be submitted along with PQ bid.	for 3C item. for this clause. request end user can accept other county certificate or equivalent certificate, Requested to amendment this in tender .	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
98.	27	4	<p>The system should have the deep learning-based video analytics for intelligent traffic management applications such as:</p> <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.) o Fake number plate detection 	<p>for 4 item: it is VMS based specification. All analysis will be based on server and VMS ability. request customer can accept edge-based solution which deep learning is supported by camera and server side, Request to Amendment this point .</p>	As per RFP
99.	31	3.6.2	IR Distance - 260 meter	<p>Camera detect number plate will be 20 to 30 meters , So maximum 100-meter IR distance is sufficient for this . Request to change the IR distance to 100 meters .</p>	Amendment: IR Distance - minimum 120 meter or better
100	31	3.6.2	Weather-proof IP68-rated housing	<p>in the most of cases, IP66 or better is the clause. IP68 is OEM Specific . Thus, request to change to : IP66 or better</p>	Amendment: Weather-proof IP66-rated housing or better

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
101	44	3.6.14	Minimum 100 Mtrs	Camera detect number plate will be 20 to 30 meters . Request to Change the Radar detection range minimum 20 meter .	As per RFP
102	59	6	The Bidder / All Consortium Partners (in case of consortium) /OEM should not have been Blacklisted/ Banned by any State / Central Government in India/PSUs/ Any Government Internationally as on bid submission date for corrupt, fraudulent or any other unethical business practices or for any other reason.	it is used for India project only and no need to take international point of view. Thus, request end user to mention The Bidder / All Consortium Partners (in case of consortium)/OEM should not have been Blacklisted/ Banned by any State / Central Government in India/PSUs only, Thus request to change the same accordingly .	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
103	11	1.Introduction	<p>One camera per lane will be placed to capture the registration plate and the camera system will be running in the local processing units (at nodes) which continuously analyses the pictures and video streaming, such that if any violation is detected by the system by any vehicle, its registration plate will be captured (number plate Capture rate shall be minimum 95%) and Optical Character Recognition (OCR conversion accuracy should be at least 90% for HSRP during day& night time across all weather conditions; 90% for Standard Number Plates during day & night time across all weather conditions) will extract the registration plate number of that violating vehicle with machine readable format for further processing. Moreover, if at any point of time, one gantry/node location is not working, it should capture the details in the next available node.</p>	<p>In the RFP at Three different places different accuracies are asked. Request you to please make the accuracy clause uniform at all places in the RFP and amend it as "One camera per lane will be placed to capture the registration plate and the camera system will be running in the local processing units (at nodes) which continuously analyses the pictures and video streaming, such that if any violation is detected by the system by any vehicle, its registration plate will be captured (number plate Capture rate shall be minimum 85%) and Optical Character Recognition (OCR conversion accuracy should be at least 85% for HSRP & Standard Number Plates during day& night time across all weather conditions) will extract the registration plate number of that violating vehicle with machine readable format for further processing. Moreover, if at any point of time, one gantry/node location is not working, it should capture the details in the next available node."</p>	<p>Amendment: OCR conversion accuracy should be at least 95% for HSRP during day & night time across all weather conditions; 90% for Standard Number Plates during day & night time across all weather conditions</p>

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
104	25	3.5 Functional Requirement Specifications (FRS)	The system should capture HSRP & standard vehicle's number plates with an accuracy of at least 95 % across the day (without white strobe light) 24x7.	In the RFP at Three different places different accuracies are asked. Request you to please make the accuracy clause uniform at all places in the RFP and amend it as " The system should capture HSRP & standard vehicle's number plates with an accuracy of at least 85 % across the day and night time (with proper illumination / provision of IR light) 24x7. "	Amendment: OCR conversion accuracy should be at least 95% for HSRP during day & night time across all weather conditions; 90% for Standard Number Plates during day & night time across all weather conditions
105	27	3.5 Functional Requirement Specifications (FRS)	The deep learning based ANPR system should improve the number plate detection for up to 95 percent for all vehicles with standard number plates during the day and nighttime (with proper illumination / provision of IR light).	In the RFP at Three different places different accuracies are asked. Request you to please make the accuracy clause uniform at all places in the RFP and amend it as " The deep learning based ANPR system should improve the number plate detection for up to 85 percent for all vehicles with High security standard number plates during the day and night time (with proper illumination / provision of IR light). "	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
106	25	3.5 Functional Requirement Specifications (FRS)	System should be able to detect and recognize the English alpha numeric registration plate in standard fonts and formats for classes of vehicles (provided as annexure) such as Cars, Heavy Commercial Vehicles, Three Wheelers and Two Wheelers or any vehicles that require Registration for plying on roads.	ANPR system can capture the vehicles (such as Cars, Heavy Commercial Vehicles, Three Wheelers and Two Wheelers , LMV, HMV etc.) having number plates clearly visible by the ANPR camera. For the asked accuracies, the number plate of the vehicle should be High security standard number plates. Hence kindly delete " (provided as annexure) " from this clause and amend the clause as : " System should be able to detect and recognize the English alpha numeric registration plate in standard fonts and formats for classes of vehicles such as Cars, Heavy Commercial Vehicles, Three Wheelers and Two Wheelers or any vehicles having number plate that require Registration for plying on roads. "	Amendment: System should be able to detect and recognize the English alpha numeric registration plate in standard fonts and formats for classes of vehicles such as Cars, Heavy Commercial Vehicles, Three Wheelers and Two Wheelers or any vehicles having number plate that require Registration for plying on roads.
107	27	3.5 Functional Requirement Specifications (FRS)	The system should detect the vehicles with no registration plate and should raise an alert along with the video and snapshots of the vehicle.	Any traffic enforcement system will require number plate capturing for identification and challenging of vehicle. There is no relevance of capturing vehicles without a readable number plate. Hence request you to remove this clause.	Amendment: "The system should detect the vehicles with no registration plate and should raise an alert along with the video and snapshots of the vehicle " stands cancelled.

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
108	30	3.6 Technical Specifications of Video Management & Operator Functions	9. Pan/Tilt/Zoom Functionalities ePTZ : 48x digital zoom (4x on IE plug-in, 12x built in)	To capture speed of the vehicle and also to do ANPR (number plate recognition), fixed field of view of the camera is required. For the asked application i.e. ANPR with Speed detection functionality, fixed box camera along with external IR Illuminator (IR for night time only) is required to achieve the highest level of accuracies. Also, PTZ cameras are costlier than Fixed box cameras. Hence we hereby request you to kindly amend the camera specifications according to fixed box camera.	Amendment: 9. Pan/Tilt/Zoom Functionalities ePTZ : 48x digital zoom (4x on IE plug-in, 12x built in) is optional
109	30	3.6 Technical Specifications of Video Management & Operator Functions	Field of View :11.6° ~ 34.2° (Horizontal) or Better 6.6° ~ 18.7° (Vertical) or Better 13.3° ~ 39.8° (Diagonal) or Better		Amendment: 7. Field of View is optional
110	30	3.6 Technical Specifications of Video Management & Operator Functions	30. Video Compression : H.265, H.264 & MJPEG	H.265 compression is the newest technology and still taking time to get the best results with the same. H.264 compression technology is widely available with most of the cameras. Considering the same, we request you to kindly amend the clause as: " 30.Video Compression : H.265/H.264/MJPEG "	As Per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
111	34	3.6 Technical Specifications of Video Management & Operator Functions	Note: All the cameras, IR illuminators, Housing should be from single OEM.	The asked clause is OEM specific and also restricting the maximum participation. Hence request you to remove this clause.	Please refer respective response(s) on same subject
112	23	3.4 Bill of Material (BOM)	Rader Based Speed detection system with Solar panel with Pole for installation between 2 gantry location	As per Clause Page no. 26 SECTION 3.5 Functional Requirement Specifications (FRS) 3. Speed Violation Detection (SVD) Point no. A " The system should be video/radar-based speed violation detection system to be used for speed detection" . To avoid confusion, request you to please reflect the same in Bill of material (BOM) and all other required section also.	Pls. read RFP Solution envisaged & SoW.
113	24	3.4 Bill of Material (BOM)	Supply of channel license for Overview Camera	Request you to please clarify the purpose of overview camera.	Overview camera will be used as for evidential proof & oversee the highway.

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
114	58	5.6 Pre-Qualifications Evaluation	Additional	<p>AI based ANPR are the key of any safe city/surveillance project and lot of technological advancement keep on continuously happening. Hence the ANPR solution to be provided must have its development center in India to meet such upgradation requirements.</p> <p>Hence we suggest you include clause as mentioned below: "ANPR OEM should have development center in India from past 10 years."</p>	Accepted, whereas ITMS software OEM should have development center in India from past 10 years.

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
115	58	5.6 Pre-Qualifications Evaluation	Request to consider "Class-1 Local Suppliers" as per "Make in India" policy	<p>As per clause 3a of latest amendment in Public Procurement Policy (Make in India) policy to promote 'Make in India' and 'Aatmanirbhar Bharat' "In procurement of all goods, services or works, if there is sufficient local capacity and local competition, only class-1 local supplier shall be made eligible to participate irrespective of purchase value."</p> <p>There are multiple local OEMs with SVD system on video based technology, and already installed in around 90% of the smart city projects, which are not being allowed to qualify for participation in this tender.</p> <p>Hence, considering the latest Public Procurement Policy guidelines, we request you to include "Make in India" policy in this RFP.</p>	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
116	58	5.6 Pre-Qualifications Evaluation	Additional clause to prevent Cyber Security threats	Considering the cyber security requirements as per govt. of India directives, necessary measures should be taken to prevent the cyber-attacks/threats. CERT-In is designated agency from govt. of India for handling cyber security of such applications. Hence we suggest including below mentioned clause for ANPR Systems. "Proposed ANPR Systems should have Certification of Security Assessment from any CERT-IN empaneled agencies. Same should be submitted along with the bid."	As the solution will be hosted in the OSDC, the security layer shall be provided by the SDC Infra.
117	34		All the cameras, IR illuminators, Housing should be from single OEM.	Kindly remove this point	Please refer respective response(s) on same subject
118	41	3.6.10	Total Cube depth should be ≤ 744 mm	Total Cube depth should be $< = 470$ mm	Amendment: Total Cube depth should be ≤ 470 mm
119	30	3.6.2	1/2" Progressive CMOS or better	1/3" Progressive CMOS or better	As per RFP
120	31	3.6.2	60dB or Better	55dB or Better	As per RFP
121	31	3.6.2	140 dB or better	130 dB or better	Amendment: Dynamic Range 130 dB or better
122	31	3.6.2	20° ~ 40° remote adjustable	15° or better	Amendment: Beam Angle is optional
123	31	3.6.2	260 meters or Better	140 meters or Better	Amendment: IR Distance - minimum 120 meter or better
124	31	3.6.2	Weather-proof IP68-rated housing	Weather-proof IP66-rated housing	Amendment: Weather-proof IP66-rated housing or better

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
125	31	3.6.2	RS485 configurable	Kindly Remove this point	Amendment: RS485 configurable is optional
126	31	3.6.2	4 simultaneous streams or Better	2 simultaneous streams or Better	As per RFP
127	32	3.6.2	Image Settings -LPC scene mode	Kindly Remove this point	Amendment: Image Settings - LPC scene mode is optional
128	32	3.6.2	Live viewing for up to 10 clients	Live viewing for up to 5 clients	Amendment: Live viewing for 5 or more clients
129	32	3.6.2	Manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection, advanced motion detection, SD card life expectancy, cybersecurity events (brute force attack event, cyberattack event, quarantine event)	Manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, advanced motion detection, SD card removal, network disconnection	Amendment: Alarm and Event – Alarm Triggers- Manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, advanced motion detection, SD card removal, network disconnection
130	33	3.6.3	f = 2.7 ~ 13.5 mm or better	f = 2.8 ~ 12 mm	As per RFP
131	33	3.6.3	F1.4 ~ F2.8 or better	F1.4 or better	Amendment: Aperture: F1.4 or better
132	33	3.6.3	P-iris	Please change to DC-Drive	Amendment: Auto-iris P-iris/ DC-iris
133	33	3.6.3	30° ~ 100° (Horizontal) or Better	34° ~ 84° (Horizontal) or Better	Amendment: As Per Bidders choice to meet the requirement, at least 3 lanes should cover
134	33	3.6.3	23° ~ 72° (Vertical) or Better	19° ~ 46° (Vertical) or Better	As per RFP
135	33	3.6.3	38° ~ 135° (Diagonal) or Better	40° ~ 98° (Diagonal) or Better	Amendment: As Per Bidders choice to meet the requirement
136	33	3.6.3	110dB or better	100 dB or better	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
137	33	3.6.3	110 dB or better	Kindly remove this point	Amendment: Dynamic Range is optional
138	33	3.6.3	Adjustable resolution, quality and bit rate control, Smart Stream III	Please change to Adjustable resolution, quality and bit rate control,	Amendment: Video Streaming Smart Stream III is optional
139	33	3.6.3	Embedded cybersecurity	Kindly remove this point	Amendment: Embedded cybersecurity is optional
140	34		All the cameras, IR illuminators, Housing should be from single OEM.	Kindly remove this point	Amendment: All the cameras, IR illuminators, Housing may be from different OEM, but the bidder have to ensure seamless integration of camera with IR illuminator, housing, lens.
141	34	3.6.3	Built-in Microphone	Kindly remove this point	Amendment: Built-in Microphone is optional
142	34	3.6.3	Live viewing for up to 10 clients	Please change Live viewing for up to 5 clients	As per RFP
143	34	3.6.3	Five-window video motion detection, human detection, time filter	Please change Four-window video motion detection	Amendment: Five-window video motion detection, human detection, time filter is optional
144	34	3.6.3	Motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection, MicroSD card life expectancy	Please change Manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, advanced motion detection, SD card removal, network disconnection	Amendment: Audio detection, MicroSD card life expectancy is optional
145	35	3.6.4	65 dB	Please change 55 dB	Amendment: S/N Ratio 50dB or Better

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
146	35	3.6.4	Adjustable resolution, quality and bitrate, Smart Stream II	Please change Adjustable resolution, quality and bitrate	Amendment: Video Streaming Smart Stream II is optional
147	35	3.6.4	Live viewing for up to 10 clients	Please change Live viewing for up to 5 clients	As per RFP
148	36	3.6.4	System power and status indicator	Kindly remove this point	Amendment: LED Indicator System power and status indicator is optional
149	36	3.6.4	Max. 10 W	Please change <13 W	As per RFP
150	36	3.6.4	CE, LVD, FCC Class A, VCCI, C-Tick	Please change it to BIS,CE, FCC	Amendment: Safety Certifications: BIS, CE, FCC
151	53	4.1	All bidders shall furnish, as part of its Pre-Qualification Bid, an Earnest Money Deposit / Bid Security amounting to Rs.35, 00,000 (Thirty-five Lakh only). Bids without this bid security/EMD will be rejected	It is requested that currently we are not in a position to deposit a huge amount like 35,00000(thirty-five lakhs)for the said tender because there is ups and downs during this pandemic effect , even still we are facing lots of problem in terms of economic effect. Kindly reduce the amount to 10,00000 ten lakhs so we can participate the said tender. Otherwise we are eligible for participating the tender.	Please refer respective response(s) on same subject

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
152	75	Payment Term	The Office of the Transport Commissioner at its sole discretion and depending on project progress and under certain criteria may release part-payment against any milestone payment after due undertaking from the bidder for completion of the activity or deliverable within 1 month of such submission of request by the bidder. However, the decision for part payment is entirely dependent on Office of the Transport Commissioner	Please provide 50% mobilization advance for Civil Work	Not Considered
153	15	1.3.2/9	To provide the raw power with required sockets, network connectivity, any required clearance from respective departments etc	It is requested to the department to make sure availability of raw power with required sockets, network connectivity at all the location before SI start executing the work.	Office of the Transport Commissioner will provide the required infra at the time of the installation.
154	53	4.1	All bidders shall furnish, as part of its Pre-Qualification Bid, an Earnest Money Deposit / Bid Security amounting to Rs.35, 00,000 (Thirty-five Lakh only). Bids without this bid security/EMD will be rejected	We have participated in this same tender last time and that time EMD was Rs.1500000(Fifteen Lakhs).But in this tender department is asking for Rs.3500000(Thirty-Five Lakhs) .We request your good office kindly do not exceed EMD more than Rs.1500000.00	Amendment: Considered for EMD value of 15,00,000 (Fifteen Lakhs) Please refer respective response(s) for details.
155	82	6.14	IPR Clause : Whole	Request you to remove this clause. Please ask for SDK and API must to be provided to customer for any integration purpose in future.	Please refer respective response (s) on Patent / Intellectual Property Rights (IPR) / Copy Rights

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
156	61	5.7	<p>Additional 2 marks for bidder (Prime bidder, in case of Consortium) if they have R&D Facility, at least 2 Patents filed in CCTV, Surveillance system. Subject to maximum up to 7 years of relevant experience.</p> <p>Submission of R&D Facility Details on Company Letter Head signed by Auth. Signatory and Patents details with dates filed etc.</p>	<p>Patents will be applicable to OEMs and thus request you to remove from bidder's technical selection criteria.</p>	<p>Please refer respective response(s) on same subject</p>
157	62	5.7	<p>Domain Experience; WO/Client Certificate/Agreement Copies/Completion Certificate clearly indicating the Scope of the Project. The work executed for any Ministry/ Department of Gol/ State/UT Government/ Government Organizations</p>	<p>Domain Experience; WO/Client Certificate/Agreement Copies/Completion Certificate clearly indicating the Scope of the Project. The work executed for any Ministry/ Department of Gol/ State/UT Government/ Government Organizations as end user.</p>	<p>As Per RFP</p>
158	62	5.7	<p>The technology should have been certified/tested by a reputed Indian test laboratory or institute under central government. Such certificate/test report should be submitted along with PQ bid.</p>	<p>Should be changed to as OR International speed calibration certificate from an approved metrological LAB for speed measurement. (as 3D radars are not manufactured in India)</p>	<p>As per RFP</p>
159	62	5.7	<p>SPEED test certificate of vehicles at 120- 140kmph =2 Marks SPEED test certificate of vehicles more than 140 kmph and above = 5 Marks</p>	<p>SPEED test certificate of vehicles at 160- 180kmph =2 Marks SPEED test certificate of vehicles more than 180 kmph and above = 5 Marks</p>	<p>As Per RFP</p>

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
160	24			Can we assume 4 lanes as (2+2) & 6 lanes as (3+3) roads? In that case (2+2) number of systems required = 6 In that case (3+3) number of systems required = 42 If our assumption is correct, total = 42+6 =48 systems.	Confirmed
161	24			SI No: 2, As per standard design, Overview camera = Evidence camera. That is required 1 per road. So total Evidence camera required = 48 Or overview camera for different purpose?	Overview camera will be used as for evidential proof & oversee the highway in total 7 locations out of 24.
162	24			SI No:8, In BOM, Junction Box is mentioned as 24 instead of 48	Please consider 1 junction box for each location
163	24			SI No:9, In BOM, Radar Based Speed detection system = 40 instead of 48	Request to please refer the Solution envisaged along with the SoW. Please refer respective response(s) on same subject
164	24			Here cabling quantity is mentioned. Quantity may vary. Actual quantity can be decided only after site survey.	Please note that maximum qty has been factored, however, in case of more consumption SI need to factor any such cost under Additional Items based on their estimate.

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
165	24			Sl No: 2- Only after defining the purpose of Overview camera, quantity can be fixed. As per standard design, it's required 1 per road. But the given quantity will not serve the purpose. Please clarify	Please refer respective response(s) on same subject
166	24			Only 3 Workstations are mentioned in quantity. Server system with RAID is recommended for handling such a big project. Also, redundancy server to be considered.	Workstations will be placed at the CCC for event processing & management. Virtual Server instances will be configured at the OSDC for hosting the applications.
167	24			Storage is not mentioned here. Backup capacity also not mentioned. Please clarify.	The application will be hosted in the OSDC, so the required infra will be provided by the OSDC
168	24			Firewall not mentioned , which is essential to neutralize external threats when using internet connectivity	As the solution will be hosted in the OSDC, the security layer shall be provided by the SDC Infra.
169	24			Switch & UPS not mentioned for Command & Control Room. Please clarify.	Office of the Transport Commissioner will provide when required
170	24			Please specify the exact requirement	The Line Items are the self-explanatory

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
171	25	3.5 Functional Requirement Specifications	System should be able to detect and recognize the English alpha numeric registration plate in standard fonts and formats for classes of vehicles (provided as annexure) such as Cars, Heavy Commercial Vehicles, Three Wheelers and Two Wheelers or any vehicles that require Registration for plying on roads.	ANPR system can capture the vehicles (such as Cars, Heavy Commercial Vehicles, Three Wheelers and Two Wheelers , LMV, HMTV etc.) having number plates clearly visible by the ANPR camera. For the asked accuracies, the number plate of the vehicle should be High security standard number plates. Hence kindly delete " (provided as annexure) " from this clause and amend the clause as : " System should be able to detect and recognize the English alpha numeric registration plate in standard fonts and formats for classes of vehicles such as Cars, Heavy Commercial Vehicles, Three Wheelers and Two Wheelers or any vehicles having number plate that require Registration for plying on roads. "	Amendment: System should be able to detect and recognize the English alpha numeric registration plate in standard fonts and formats for classes of vehicles such as Cars, Heavy Commercial Vehicles, Three Wheelers and Two Wheelers or any vehicles having number plate that require Registration for plying on roads.
172	27	3.5 Functional Requirement Specifications	The system should detect the vehicles with no registration plate and should raise an alert along with the video and snapshots of the vehicle.	Any traffic enforcement system will require number plate capturing for identification and challenging of vehicle. There is no relevance of capturing vehicles without a readable number plate. Hence request you to remove this clause.	Amendment: "The system should detect the vehicles with no registration plate and should raise an alert along with the video and snapshots of the vehicle" stands deleted

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
173	30	3.6 Technical Specifications	9. Pan/Tilt/Zoom Functionalities ePTZ : 48x digital zoom (4x on IE plug-in, 12x built in)	To capture speed of the vehicle and also to do ANPR (number plate recognition), fixed field of view of the camera is required. For the asked application i.e. ANPR with Speed detection functionality, fixed box camera along with external IR Illuminator (IR for night time only) is required to achieve the highest level of accuracies. Also, PTZ cameras are costlier than Fixed box cameras. Hence we hereby request you to kindly amend the camera specifications according to fixed box camera.	Amendment: 9. Pan/Tilt/Zoom Functionalities ePTZ : 48x digital zoom (4x on IE plug-in, 12x built in) is optional
174	30	3.6 Technical Specifications	Field of View :11.6° ~ 34.2° (Horizontal) or Better 6.6° ~ 18.7° (Vertical) or Better 13.3° ~ 39.8° (Diagonal) or Better		Amendment: 7. Field of View is optional
175	30	3.6 Technical Specifications	30. Video Compression : H.265, H.264 & MJPEG	H.265 compression is the newest technology and still taking time to get the best results with the same. H.264 compression technology is widely available with most of the cameras. Considering the same, we request you to kindly amend the clause as: " 30.Video Compression : H.265/H.264/MJPEG "	As Per RFP
176	34	3.6 Technical Specifications	Note: All the cameras, IR illuminators, Housing should be from single OEM.	The asked clause is OEM specific and also restricting the maximum participation. Hence request you to remove this clause.	Please refer respective response(s) on same subject

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
177	23	3.4 Bill of Material	Rader Based Speed detection system with Solar panel with Pole for installation between 2 gantry location	As per Clause Page no. 26 SECTION 3.5 Functional Requirement Specifications (FRS) 3. Speed Violation Detection (SVD) Point no. A " The system should be video/radar-based speed violation detection system to be used for speed detection" .	As per RFP
178	24	3.4 Bill of Material	Supply of channel license for Overview Camera	Request you to please clarify the purpose of overview camera.	Overview camera will be used as for evidential proof & oversee the highway.

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179			<p>Radar based solar powered speed detection system is to be installed in between every two gantry locations to enhance the speed violation detection capabilities and reduce road fatalities. The VMS shall be installed near by the gantry locations, two in the entry & exit point of the stretch and another two in between the stretch. All shall be nearby the gantry locations; the SI is to draw the raw power from the gantry location itself. Similarly, the overview cameras 2 each shall be installed in 4 number of locations based on decision from Office of Transport Commissioner. The Feed will be displayed in the Video Wall separately or combined as and when required. Another two number each overview cameras each shall be installed in three numbers of bordering locations police station. The feed will be displayed in the computer monitor either directly or vide software client. Various alerts shall be displayed in the computer screen for quick reaction/ appropriate action.</p>	<p>Is the fully system solar powered only? For solar what is min back up time in case of rainy days, (number of days of autonomy required?), where solar panel will be mounted? It is assumed there is no Mains power connection to these sites. What is the purpose of overview camera mentioned here? Please clarify. These are to be mounted on gantry?</p> <p>Request you to please reflect the same in Bill of material (BOM) and all other required section also.</p>	<p>Radar based speed detection system will be fully solar powered. Min backup time is 12 hrs. Panel will be mounted at the top of the radar based speed detection pole. No Mains/raw power is available for Radar based solar powered speed detection system Request to please check the RFP for Overview camera usage Overview camera's will be mounted at the gantry</p>

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
180	3A		The system should be video/radar-based speed violation detection system to be used for speed detection.	Video Analytics system – Not accepted worldwide. Prone to error. Speed error unto $\pm 20\%$. Also, max speed less than 140 KMPH, while min 200KMPH min required with new generation cars on highways. A 140KMPH speed limited system will be a failure and loss of public funds. (it means a car moving at 150 KMPH can escape the system this will have a negative impact.	As per RFP
181	3B- 26		The system should be video/radar-based speed violation detection system to be used for speed detection.	Video Analytics system – Not accepted worldwide. Prone to error. Speed error unto $\pm 20\%$. Also, max speed less than 140 KMPH, while min 200KMPH min required with new generation cars on highways. A 140KMPH speed limited system will be a failure and loss of public funds. (it means a car moving at 150 KMPH can escape the system this will have a negative impact.	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
182	2D-25		The offered system should be able to detect vehicle registration plates along with speed violation detection for vehicles having speed even more than 140 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 ± 3 KMPH. The system should generate an automatic alert in case of a speed violation and generate unique case number for each violation detected.	Min Speed limit should be 180kmph. Video analytics have a limitation of 140kmph. More than that speed error rate is higher. So, 3D/4D Doppler radar is a must. Else system will not capture true over speeding vehicles & system will be a total failure.	As per RFP
183	3.6.2 & 3.6.3		The system should capture HSRP & standard vehicle's number plates with an accuracy of at least 95 % across the day (without white strobe light) 24x7.	For standard plates night accuracy not mentioned. (should be also 95%) For nonstandard plate accuracy not mentioned: min ANPR accuracy > 85% day & night.	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
184			ANPR CAMERA, HOUSING & Overview Bullet Network Camera	High performance Global shutter camera should be used : to meet high speed capture up to 240KMPH, no motion blur, day & night image quality to identify vehicle etc. (what is mentioned is a general-purpose camera). The spec should be such that the ANPR camera should meet the performance requirement & minimum 2 mega pixel vehicle detection rate of minimum 95% in free traffic flow for all vehicles required. - not mentioned anywhere. and should capture high quality vehicle images in day & night up to 180 KMPH without any motion blur (for police crime analysis)	As per RFP
185	as above		ANPR CAMERA, HOUSING & Overview Bullet Network Camera	Wide angle court evidence camera not mentioned?	As per RFP
186	3.6.1-30		Local Processing Unit (LPU) - Motherboard supports i5 / i7 with CPU Cooler	LPU should be able to mention any standard one like NVIDIA/Intel/ AMD based boards.	Intel Base already mentioned in the RFP
187	2A-25		The System should automatically detect a vehicle in the camera view using video detection and activate Registration plate recognition.	Point to be changed. Detection using Doppler radar system.	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
188	3C-26		The technology should have been certified/tested by a reputed Indian test laboratory or institute under central government. Such certificate/test report should be submitted along with PQ bid.	Should be changed to as OR International speed calibration certificate from an approved metrological LAB for speed measurement. (as 3D radars are not manufactured in India)	As per RFP
189	8M-28/29		Vulnerability Assessment and Penetration Testing (VAPT) audit for the ITMS software is a must requirement, and the application has to follow the OWASP guidelines.	Such points should be made generic to attract more competitive bid	As per RFP
190			Certificate for the VAPT audit report in the name of software OEM need to be submitted.	Such points should be made generic to attract more competitive bid	As per RFP
191	8G-28		The Software OEM must satisfactory running certificate for roadside installation from any Government Department.	Such points should be made generic to attract more competitive bid	As per RFP
192	8D-28		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	To be changed as Server software may run on Linux/Windows.	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
193	3.1-18		The STA authority already have some mobile speed detection system in place & may procure some vehicles too in future, the selected SI need to integrate those vehicles and systems in the new environment without any preconditions for ease & single point of operation. It is also to be noted that, the challan generation will be same also after integration	suitable API should be provided	Office of the Transport Commissioner will provide the required API and /or SDK
194	6 & 7, 27 & 28		No Helmet Detection System & Triple Ride Detection	Is AI detection to be done on the same set of cameras for Over speed violation? In that case only speed violated vehicle to be processed for AI based violations. Or all the vehicle needs to be processed?	AI detection to be done by the ANPR camera with the help of central software to meet the RFP FRS criteria
195	13		All the camera nodes will be connected through Optical Fiber Connectivity (OFC) and the system should be such that in course of temporary failure of network, the data shall be stored in the local device& as and when the network is restored, the data shall be synced to the server.	Is Field Optical Fiber connectivity available all over the 100 stretch? If not, should bidder quote for that also?	Provision of Network Connectivity is not under bidder's scope
196	46	3.6.12	Request you to add	LED Type: SMD 3 in 1	Not Considered
197	46	3.6.12	Request you to add	LED Pixel Pitch : P10	Amendment: LED Pixel Pitch: DIP P10

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
198	46	3.6.12	Request you to add	As per IRC guidelines request you to add below clause " Each LED shall be encapsulated with secondary lens"	Not Considered
199	37	3.6.6	Voltage AVR Mode - 200~245V	Request you to amend ONLINE UPS	As Per RFP
200	37	3.6.6	Voltage 24VDC	Request you to amend Voltage 24/36VDC	As Per RFP
201	37	3.6.6	Internal Battery; 2x12V/9AH	Request you to amend with 2x12V-9AH/ 3x12V-7AH/	As Per RFP
202	40	3.6.9	AVR Built in Automatic Voltage Regulator (AVR)	Request you to amend with ONLINE UPS	As per RFP
203	74,75	5.3	40% of cost of Equipment's including Hardware & software application license including Warranty support charge as per format provided.	50% of cost of Equipment's including Hardware & software application license including Warranty support charge as per format provided.	Please refer Revised Payment Terms, Clause 6.3
204	74,75	5.3	20% of cost of Equipment including Hardware & Accessories including Warranty support charge on its installation and commissioning as per format provided	10% of cost of Equipment including Hardware & Accessories including Warranty support charge on its installation and commissioning as per format provided	Please refer Revised Payment Terms, Clause 6.3
205	41	3.6.10	3.6.10. 2X2 -50" LASER Full HD Video Wall and Controller	2 x 2 full HD, 55" LED panels with 1.7 mm bezel with videowall controller	As per RFP
206	41	3.6.10	Video wall cubes of 50" diagonal in a 2 x 2 configuration complete with base stand	Video wall cubes of 55" diagonal in a 2 x 2 configuration complete with base stand / wall mounting	As Per RFP
207	41	3.6.10	Brightness of Projection engine, Minimum 2000 lumens	Request you to remove as not applicable	As Per RFP
208			≤ 0.2 mm	1.7 mm	As Per RFP
209			Total Cube depth should be ≤744 mm	Should be less than 100 mm	Amendment: Total Cube depth should be ≤ 470 mm

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
210			Rear	Front	As Per RFP
211				Request you to omit as Not applicable	Query Incomplete
212			Display & Controller should be from the same manufacturer	This is against the fair competition norms; this clause should be deleted. these types of specs are monopolistic and unacceptable	As Per RFP
213			Request to Add	For every violation one lane image of vehicle & 2 wide angle evidence image (for court room evidence that vehicle was on the road at the time of violation) should be captured . Wide angle camera should cover surroundings of the road also),. The two wide angle images should be automatically captured with violating vehicle at 2-time instances during transit. this is a widely accepted standard.	Not Considered
214			Request to Add	Along with number plate, high quality image of vehicle, also to be captured at Day and Night conditions for all vehicles. The vehicle image should have sufficient quality to identify make, model and marking etc on vehicle for crime analysis purpose.	Not Considered

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
215			Request to Add	System should support & enforce both Spot speed and Average speed, ANPR camera captures vehicle image / vehicle registration number, based on trigger from Radar sensor with time stamp and speed information. Accurate time stamp synchronized with GPS or NTP servers required for Average speed enforcement between two ANPR cameras.	Not Considered
216			Request to Add	Roadside Embedded hardware, network switch etc. Local storage with 256GB or more storage site. All industrial grade hardware should be provided.	Not Considered
217			Request to Add	remote health monitoring should be part of system.	Already mentioned in RFP
218			Request to Add	The deep learning based ANPR system should improve the number plate detection for up to 95 percent for all vehicles with standard number plates during the day and night time (with proper illumination / provision of IR light). Min 80% for all humanly readable nonstandard plates day or night.(limitations apply to nonstandard / hidden plates for 2 wheelers for front capture)	Not Considered

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219			Request to Add	IR flash is missing in BOM. It is necessary for capturing high quality images at night without depending on the presence of ambient light. Infrared flash for image capture at night, synchronized flash with global shutter of camera. Flash power sufficient to capture vehicle images also at night (not only the License Plate).This is a very important feature for crime analysis.	Request to please refer ANPR camera with IR & Housing
220			Request to Add	High vehicle detection rate: greater than 95% of all vehicles captured under all conditions, irrespective of number plate quality, in free flow traffic conditions.	Request to please refer published RFP
221			Request to Add	High vehicle classification accuracy: greater than 90% of all vehicles captured during day & night. Minimum 4 classification to be done.	Not Considered
222			Request to Add	Violating vehicle should be clearly marked on the image, to avoid any confusion with other vehicles nearby.	Request to please refer published RFP

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223	61	5.7	<p>Additional 2 marks for bidder (Prime bidder, in case of Consortium) if they have R&D Facility, at least 2 Patents filed in CCTV, Surveillance system. Subject to maximum up to 7 years of relevant experience.</p> <p>Submission of R&D Facility Details on Company Letter Head signed by Auth. Signatory and Patents details with dates filed etc.</p>	<p>Patents will be applicable to OEMs and thus request you to remove from bidder's technical selection criteria.</p>	<p>Please refer respective responses(s) on same subject</p>
224	62	5.7	<p>Domain Experience; WO/Client Certificate/Agreement Copies/Completion Certificate clearly indicating the Scope of the Project. The work executed for any Ministry/ Department of Gol/ State/UT Government/ Government Organizations</p>	<p>Domain Experience; WO/Client Certificate/Agreement Copies/Completion Certificate clearly indicating the Scope of the Project. The work executed for any Ministry/ Department of Gol/ State/UT Government/ Government Organizations as end user.</p>	<p>As Per RFP</p>
225	62	5.7	<p>The technology should have been certified/tested by a reputed Indian test laboratory or institute under central government. Such certificate/test report should be submitted along with PQ bid.</p>	<p>Should be changed to as OR International speed calibration certificate from an approved metrological LAB for speed measurement. (as 3D radars are not manufactured in India)</p>	<p>As Per RFP</p>
226	62	5.7	<p>SPEED test certificate of vehicles at 120- 140kmph =2 Marks SPEED test certificate of vehicles more than 140 kmph and above = 5 Marks</p>	<p>SPEED test certificate of vehicles at 160- 180kmph =2 Marks SPEED test certificate of vehicles more than 180 kmph and above = 5 Marks</p>	<p>As Per RFP</p>

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227	24			Can we assume 4 lanes as (2+2) & 6 lanes as (3+3) roads? In that case (2+2) number of systems required = 6 In that case (3+3) number of systems required = 42 If our assumption is correct, total = 42+6 =48 systems.	Yes, Assumptions are in line with the requirement
228	24			SI No: 2, As per standard design, Overview camera = Evidence camera. That is required 1 per road. So total Evidence camera required = 48 Or overview camera for different purpose?	Overview camera will be used as for evidential proof & oversee the highway in total 7 locations out of 24.
229	24			SI No:8, In BOM, Junction Box is mentioned as 24 instead of 48	One Junction Box per gantry location or node
230	24			SI No:9, In BOM, Radar Based Speed detection system = 40 instead of 48	Request to please refer to the Solution envisaged along with the SoW.
231	24			Here cabling quantity is mentioned. Quantity may vary. Actual quantity can be decided only after site survey.	Please refer respective responses(s) on same subject
232	24			SI No: 2- Only after defining the purpose of Overview camera, quantity can be fixed. As per standard design, it's required 1 per road. But the given quantity will not serve the purpose. Please clarify	Overview camera will be used as for evidential proof & oversee the highway in total 7 locations out of 24.

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233	24			Only 3 Workstations are mentioned in quantity. Server system with RAID is recommended for handling such a big project. Also, redundancy server to be considered.	Workstations will be placed at the CCC for event processing & management. Virtual Server instances will be configured at the OSDC for hosting the applications.
234	24			Storage is not mentioned here. Backup capacity also not mentioned. Please clarify.	The application will be hosted in the OSDC, so the required infra will be provided by the OSDC.
235	24			Firewall not mentioned , which is essential to neutralize external threats when using internet connectivity	As the solution will be hosted in the OSDC, the security layer shall be provided by the SDC Infra.
236	24			Switch & UPS not mentioned for Command & Control Room. Please clarify.	Office of the Transport Commissioner will provide.
237	24			Please specify the exact requirement	The Line Items are the self-explanatory

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238	25	3.5 Functional Requirement Specifications	System should be able to detect and recognize the English alpha numeric registration plate in standard fonts and formats for classes of vehicles (provided as annexure) such as Cars, Heavy Commercial Vehicles, Three Wheelers and Two Wheelers or any vehicles that require Registration for plying on roads.	ANPR system can capture the vehicles (such as Cars, Heavy Commercial Vehicles, Three Wheelers and Two Wheelers , LMV, HMTV etc.) having number plates clearly visible by the ANPR camera. For the asked accuracies, the number plate of the vehicle should be High security standard number plates. Hence kindly delete " (provided as annexure) " from this clause and amend the clause as : " System should be able to detect and recognize the English alpha numeric registration plate in standard fonts and formats for classes of vehicles such as Cars, Heavy Commercial Vehicles, Three Wheelers and Two Wheelers or any vehicles having number plate that require Registration for plying on roads. "	Amendment: System should be able to detect and recognize the English alpha numeric registration plate in standard fonts and formats for classes of vehicles such as Cars, Heavy Commercial Vehicles, Three Wheelers and Two Wheelers or any vehicles having number plate that require Registration for plying on roads.
239	27	3.5 Functional Requirement Specifications	The system should detect the vehicles with no registration plate and should raise an alert along with the video and snapshots of the vehicle.	Any traffic enforcement system will require number plate capturing for identification and challenging of vehicle. There is no relevance of capturing vehicles without a readable number plate. Hence request you to remove this clause.	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
240	30	3.6 Technical Specifications	9. Pan/Tilt/Zoom Functionalities ePTZ : 48x digital zoom (4x on IE plug-in, 12x built in)	To capture speed of the vehicle and also to do ANPR (number plate recognition), fixed field of view of the camera is required. For the asked application i.e. ANPR with Speed detection functionality, fixed box camera along with external IR Illuminator (IR for night time only) is required to achieve the highest level of accuracies. Also, PTZ cameras are costlier than Fixed box cameras. Hence we hereby request you to kindly amend the camera specifications according to fixed box camera.	Amendment: 9. Pan/Tilt/Zoom Functionalities ePTZ : 48x digital zoom (4x on IE plug-in, 12x built in) is optional
241	30	3.6 Technical Specifications	Field of View :11.6° ~ 34.2° (Horizontal) or Better 6.6° ~ 18.7° (Vertical) or Better 13.3° ~ 39.8° (Diagonal) or Better		Amendment: 7. Field of View is optional
242	30	3.6 Technical Specifications	30. Video Compression : H.265, H.264 & MJPEG	H.265 compression is the newest technology and still taking time to get the best results with the same. H.264 compression technology is widely available with most of the cameras. Considering the same, we request you to kindly amend the clause as: " 30.Video Compression : H.265/H.264/MJPEG "	As Per RFP
243	34	3.6 Technical Specifications	Note: All the cameras, IR illuminators, Housing should be from single OEM.	The asked clause is OEM specific and also restricting the maximum participation. Hence request you to remove this clause.	Please refer respective response(s) on same subject

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244	23	3.4 Bill of Material	Rader Based Speed detection system with Solar panel with Pole for installation between 2 gantry location	As per Clause Page no. 26 SECTION 3.5 Functional Requirement Specifications (FRS) 3. Speed Violation Detection (SVD) Point no. A " The system should be video/radar-based speed violation detection system to be used for speed detection" .	Request to please refer to RFP reg. Solution envisaged & SoW.
245	24	3.4 Bill of Material	Supply of channel license for Overview Camera	Request you to please clarify the purpose of overview camera.	Overview camera will be used as for evidential proof & oversee the highway.

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
246			<p>Radar based solar powered speed detection system is to be installed in between every two gantry locations to enhance the speed violation detection capabilities and reduce road fatalities. The VMS shall be installed near by the gantry locations, two in the entry & exit point of the stretch and another two in between the stretch. All shall be nearby the gantry locations; the SI is to draw the raw power from the gantry location itself. Similarly, the overview cameras 2 each shall be installed in 4 number of locations based on decision from Office of Transport Commissioner. The Feed will be displayed in the Video Wall separately or combined as and when required. Another two number each overview cameras each shall be installed in three numbers of bordering locations police station. The feed will be displayed in the computer monitor either directly or vide software client. Various alerts shall be displayed in the computer screen for quick reaction/ appropriate action.</p>	<p>Is the fully system solar powered only? For solar what is min back up time in case of rainy days, (number of days of autonomy required?), where solar panel will be mounted? It is assumed there is no Mains power connection to these sites. What is the purpose of overview camera mentioned here? Please clarify. These are to be mounted on gantry?</p> <p>Request you to please reflect the same in Bill of material (BOM) and all other required section also.</p>	<p>Radar based speed detection system will be fully solar powered. Min backup time is 12 hrs. Panel will be mounted at the top of the radar based speed detection pole. No Mains power is available for Radar based solar powered speed detection system Request to please refer the RFP for Overview camera usage Overview camera's will be mounted at the gantry</p>

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247	3A		The system should be video/radar-based speed violation detection system to be used for speed detection.	Video Analytics system – Not accepted worldwide. Prone to error. Speed error unto $\pm 20\%$. Also, max speed less than 140 KMPH, while min 200KMPH min required with new generation cars on highways. A 140KMPH speed limited system will be a failure and loss of public funds. (it means a car moving at 150 KMPH can escape the system this will have a negative impact.	As Per RFP
248	3B- 26		The system should be video/radar-based speed violation detection system to be used for speed detection.	Video Analytics system – Not accepted worldwide. Prone to error. Speed error unto $\pm 20\%$. Also, max speed less than 140 KMPH, while min 200KMPH min required with new generation cars on highways. A 140KMPH speed limited system will be a failure and loss of public funds. (it means a car moving at 150 KMPH can escape the system this will have a negative impact.	As Per RFP

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249	2D-25		The offered system should be able to detect vehicle registration plates along with speed violation detection for vehicles having speed even more than 140 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 ± 3 KMPH. The system should generate an automatic alert in case of a speed violation and generate unique case number for each violation detected.	Min Speed limit should be 180kmph. Video analytics have a limitation of 140kmph. More than that speed error rate is higher. So, 3D/4D Doppler radar is a must. Else system will not capture true over speeding vehicles & system will be a total failure.	As per RFP
250	3.6.2 & 3.6.3		The system should capture HSRP & standard vehicle's number plates with an accuracy of at least 95 % across the day (without white strobe light) 24x7.	For standard plates night accuracy not mentioned. (should be also 95%) For non-standard plate accuracy not mentioned: min ANPR accuracy > 85% day & night.	24x7 means across day & Night

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
251			ANPR CAMERA, HOUSING & Overview Bullet Network Camera	High performance Global shutter camera should be used : to meet high speed capture up to 240KMPH, no motion blur, day & night image quality to identify vehicle etc. (what is mentioned is a general-purpose camera). The spec should be such that the ANPR camera should meet the performance requirement & minimum 2 mega pixel vehicle detection rate of minimum 95% in free traffic flow for all vehicles required. - not mentioned anywhere. and should capture high quality vehicle images in day & night up to 180 KMPH without any motion blur (for police crime analysis)	As per RFP
252	as above		ANPR CAMERA, HOUSING & Overview Bullet Network Camera	Wide angle court evidence camera not mentioned?	As per RFP
253	3.6.1-30		Local Processing Unit (LPU) - Motherboard supports i5 / i7 with CPU Cooler	LPU should be able to mention any standard one like NVIDIA/Intel/ AMD based boards.	Intel Base already mentioned in the RFP
254	2A-25		The System should automatically detect a vehicle in the camera view using video detection and activate Registration plate recognition.	Point to be changed. Detection using Doppler radar system.	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
255	3C-26		The technology should have been certified/tested by a reputed Indian test laboratory or institute under central government. Such certificate/test report should be submitted along with PQ bid.	Should be changed to as OR International speed calibration certificate from an approved metrological LAB for speed measurement. (as 3D radars are not manufactured in India)	As per RFP
256	8M-28/29		Vulnerability Assessment and Penetration Testing (VAPT) audit for the ITMS software is a must requirement, and the application has to follow the OWASP guidelines.	Such points should be made generic to attract more competitive bid	As Per RFP
257			Certificate for the VAPT audit report in the name of software OEM need to be submitted.	Such points should be made generic to attract more competitive bid	As Per RFP
258	8G-28		The Software OEM must satisfactory running certificate for roadside installation from any Government Department.	Such points should be made generic to attract more competitive bid	As per RFP
259	8D-28		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	To be changed as Server software may run on Linux/Windows.	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
260	3.1-18		The STA authority already have some mobile speed detection system in place & may procure some vehicles too in future, the selected SI need to integrate those vehicles and systems in the new environment without any preconditions for ease & single point of operation. It is also to be noted that, the challan generation will be same also after integration	suitable API should be provided	Request to please refer the RFP for more details. Office of Transport Commissioner will facilitate to provide the required API/ SDK
261	6 & 7, 27 & 28		No Helmet Detection System & Triple Ride Detection	Is AI detection to be done on the same set of cameras for Over speed violation? In that case only speed violated vehicle to be processed for AI based violations. Or all the vehicle needs to be processed?	AI detection to be done by the ANPR camera with the help of central software to meet the RFP FRS criteria
262	13		All the camera nodes will be connected through Optical Fiber Connectivity (OFC) and the system should be such that in course of temporary failure of network, the data shall be stored in the local device& as and when the network is restored, the data shall be synced to the server.	Is Field Optical Fiber connectivity available all over the 100 stretch? If not, should bidder quote for that also?	Office of Transport Commissioner will facilitate to provide
263	46	3.6.12	Request you to add	LED Type: SMD 3 in 1	Not Considered
264	46	3.6.12	Request you to add	LED Pixel Pitch : P10	Amendment: LED Pixel Pitch: DIP P10

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
265	46	3.6.12	Request you to add	As per IRC guidelines request you to add below clause " Each LED shall be encapsulated with secondary lens"	Not Considered
266	37	3.6.6	Voltage AVR Mode - 200~245V	Request you to amend ONLINE UPS	As Per RFP
267	37	3.6.6	Voltage 24VDC	Request you to amend Voltage 24/36VDC	As Per RFP
268	37	3.6.6	Internal Battery; 2x12V/9AH	Request you to amend with 2x12V-9AH/ 3x12V-7AH/	As Per RFP
269	40	3.6.9	AVR Built in Automatic Voltage Regulator (AVR)	Request you to amend with ONLINE UPS	As per RFP
270	74,75	5.3	40% of cost of Equipment's including Hardware & software application license including Warranty support charge as per format provided.	50% of cost of Equipment's including Hardware & software application license including Warranty support charge as per format provided.	Please refer respective response(s) on same subject
271	74,75	5.3	20% of cost of Equipment including Hardware & Accessories including Warranty support charge on its installation and commissioning as per format provided	10% of cost of Equipment including Hardware & Accessories including Warranty support charge on its installation and commissioning as per format provided	Please refer respective response(s) on same subject
272	41	3.6.10	3.6.10. 2X2 -50" LASER Full HD Video Wall and Controller	2 x 2 full HD, 55" LED panels with 1.7 mm bezel with videowall controller	As per RFP
273	41	3.6.10	Video wall cubes of 50" diagonal in a 2 x 2 configuration complete with base stand	Video wall cubes of 55" diagonal in a 2 x 2 configuration complete with base stand / wall mounting	As Per RFP
274	41	3.6.10	Brightness of Projection engine, Minimum 2000 lumens	Request you to remove as not applicable	As per RFP
275			≤ 0.2 mm	1.7 mm	As Per RFP
276			Total Cube depth should be ≤744 mm	Should be less than 100 mm	Amendment: Total Cube depth should be ≤ 470 mm

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
277			Rear	Front	As Per RFP
278				Request you to omit as Not applicable	Query Incomplete
279			Display & Controller should be from the same manufacturer	This is against the fair competition norms; this clause should be deleted. these types of specs are monopolistic and unacceptable	As Per RFP
280			Request to Add	For every violation one lane image of vehicle & 2 wide angle evidence image (for court room evidence that vehicle was on the road at the time of violation) should be captured . Wide angle camera should cover surroundings of the road also),. The two wide angle images should be automatically captured with violating vehicle at 2-time instances during transit. this is a widely accepted standard.	Minimum BoM remains same, bidder may offer additional items as per their solution,
281			Request to Add	Along with number plate, high quality image of vehicle, also to be captured at Day and Night conditions for all vehicles. The vehicle image should have sufficient quality to identify make, model and marking etc on vehicle for crime analysis purpose.	Not Considered

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
282			Request to Add	System should support & enforce both Spot speed and Average speed, ANPR camera captures vehicle image / vehicle registration number, based on trigger from Radar sensor with time stamp and speed information. Accurate time stamp synchronized with GPS or NTP servers required for Average speed enforcement between two ANPR cameras.	Not Considered
283			Request to Add	Roadside Embedded hardware, network switch etc. Local storage with 256GB or more storage site. All industrial grade hardware should be provided.	Not Considered
284			Request to Add	remote health monitoring should be part of system.	Already mentioned in published RFP
285			Request to Add	The deep learning based ANPR system should improve the number plate detection for up to 95 percent for all vehicles with standard number plates during the day and night time (with proper illumination / provision of IR light). Min 80% for all humanly readable nonstandard plates day or night.(limitations apply to nonstandard / hidden plates for 2 wheelers for front capture)	Not Considered

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
286			Request to Add	IR flash is missing in BOM. It is necessary for capturing high quality images at night without depending on the presence of ambient light. Infrared flash for image capture at night, synchronized flash with global shutter of camera. Flash power sufficient to capture vehicle images also at night (not only the License Plate).This is a very important feature for crime analysis.	Request to please refer ANPR camera with IR & Housing
287			Request to Add	High vehicle detection rate: greater than 95% of all vehicles captured under all conditions, irrespective of number plate quality, in free flow traffic conditions.	Already mentioned in RFP
288			Request to Add	High vehicle classification accuracy: greater than 90% of all vehicles captured during day & night. Minimum 4 classification to be done.	Not Considered
289			Request to Add	Violating vehicle should be clearly marked on the image, to avoid any confusion with other vehicles nearby.	Request to please refer RFP for details

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290	61	5.7	<p>Additional 2 marks for bidder (Prime bidder, in case of Consortium) if they have R&D Facility, at least 2 Patents filed in CCTV, Surveillance system. Subject to maximum up to 7 years of relevant experience.</p> <p>Submission of R&D Facility Details on Company Letter Head signed by Auth. Signatory and Patents details with dates filed etc.</p>	<p>Patents will be applicable to OEMs and thus request you to remove from bidder's technical selection criteria.</p>	<p>Please refer respective response(s) on same subject</p>
291	62	5.7	<p>Domain Experience; WO/Client Certificate/Agreement Copies/Completion Certificate clearly indicating the Scope of the Project. The work executed for any Ministry/ Department of Gol/ State/UT Government/ Government Organizations</p>	<p>Domain Experience; WO/Client Certificate/Agreement Copies/Completion Certificate clearly indicating the Scope of the Project. The work executed for any Ministry/ Department of Gol/ State/UT Government/ Government Organizations as end user.</p>	<p>As Per RFP</p>
292	62	5.7	<p>The technology should have been certified/tested by a reputed Indian test laboratory or institute under central government. Such certificate/test report should be submitted along with PQ bid.</p>	<p>Should be changed to as OR International speed calibration certificate from an approved metrological LAB for speed measurement. (as 3D radars are not manufactured in India)</p>	<p>As per RFP</p>
293	62	5.7	<p>SPEED test certificate of vehicles at 120- 140kmph =2 Marks SPEED test certificate of vehicles more than 140 kmph and above = 5 Marks</p>	<p>SPEED test certificate of vehicles at 160- 180kmph =2 Marks SPEED test certificate of vehicles more than 180 kmph and above = 5 Marks</p>	<p>As per RFP</p>

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
294	24			Can we assume 4 lanes as (2+2) & 6 lanes as (3+3) roads? In that case (2+2) number of systems required = 6 In that case (3+3) number of systems required = 42 If our assumption is correct, total = 42+6 =48 systems.	Confirmed
295	24			SI No: 2, As per standard design, Overview camera = Evidence camera. That is required 1 per road. So total Evidence camera required = 48 Or overview camera for different purpose?	Overview camera will be used as for evidential proof & oversee the highway in total 7 locations out of 24.
296	24			SI No:8, In BOM, Junction Box is mentioned as 24 instead of 48	Please consider 1 junction box for each location
297	24			SI No:9, In BOM, Radar Based Speed detection system = 40 instead of 48	Request to please refer the Solution envisaged along with the SoW.
298	24			Here cabling quantity is mentioned. Quantity may vary. Actual quantity can be decided only after site survey.	Please refer the respective response(s) on same subject.
299	24			SI No: 2- Only after defining the purpose of Overview camera, quantity can be fixed. As per standard design, it's required 1 per road. But the given quantity will not serve the purpose. Please clarify	Overview camera will be used as for evidential proof & oversee the highway in total 7 locations out of 24.

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300	24			Only 3 Workstations are mentioned in quantity. Server system with RAID is recommended for handling such a big project. Also, redundancy server to be considered.	Workstations will be placed at the CCC for event processing & management. Virtual Server instances will be configured at the OSDC for hosting the applications.
301	24			Storage is not mentioned here. Backup capacity also not mentioned. Please clarify.	The application will be hosted in the OSDC, so the required infra will be provided by the OSDC
302	24			Firewall not mentioned , which is essential to neutralize external threats when using internet connectivity	As the solution will be hosted in the OSDC, the security layer shall be provided by the SDC Infra.
303	24			Switch & UPS not mentioned for Command & Control Room. Please clarify.	Office of the Transport Commissioner will provide
304	24			Please specify the exact requirement	The Line Items are the self-explanatory

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
305	25	3.5 Functional Requirement Specifications	System should be able to detect and recognize the English alpha numeric registration plate in standard fonts and formats for classes of vehicles (provided as annexure) such as Cars, Heavy Commercial Vehicles, Three Wheelers and Two Wheelers or any vehicles that require Registration for plying on roads.	ANPR system can capture the vehicles (such as Cars, Heavy Commercial Vehicles, Three Wheelers and Two Wheelers , LMV, HMV etc.) having number plates clearly visible by the ANPR camera. For the asked accuracies, the number plate of the vehicle should be High security standard number plates. Hence kindly delete " (provided as annexure) " from this clause and amend the clause as : " System should be able to detect and recognize the English alpha numeric registration plate in standard fonts and formats for classes of vehicles such as Cars, Heavy Commercial Vehicles, Three Wheelers and Two Wheelers or any vehicles having number plate that require Registration for plying on roads. "	Amendment: System should be able to detect and recognize the English alpha numeric registration plate in standard fonts and formats for classes of vehicles such as Cars, Heavy Commercial Vehicles, Three Wheelers and Two Wheelers or any vehicles having number plate that require Registration for plying on roads.
306	27	3.5 Functional Requirement Specifications	The system should detect the vehicles with no registration plate and should raise an alert along with the video and snapshots of the vehicle.	Any traffic enforcement system will require number plate capturing for identification and challenging of vehicle. There is no relevance of capturing vehicles without a readable number plate. Hence request you to remove this clause.	As Per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
307	30	3.6 Technical Specifications	9. Pan/Tilt/Zoom Functionalities ePTZ : 48x digital zoom (4x on IE plug-in, 12x built in)	To capture speed of the vehicle and also to do ANPR (number plate recognition), fixed field of view of the camera is required. For the asked application i.e. ANPR with Speed detection functionality, fixed box camera along with external IR Illuminator (IR for night time only) is required to achieve the highest level of accuracies. Also, PTZ cameras are costlier than Fixed box cameras. Hence we hereby request you to kindly amend the camera specifications according to fixed box camera.	Amendment: 9. Pan/Tilt/Zoom Functionalities ePTZ : 48x digital zoom (4x on IE plug-in, 12x built in) is optional
308	30	3.6 Technical Specifications	Field of View :11.6° ~ 34.2° (Horizontal) or Better 6.6° ~ 18.7° (Vertical) or Better 13.3° ~ 39.8° (Diagonal) or Better		Amendment: 7. Field of View is optional
309	30	3.6 Technical Specifications	30. Video Compression : H.265, H.264 & MJPEG	H.265 compression is the newest technology and still taking time to get the best results with the same. H.264 compression technology is widely available with most of the cameras. Considering the same, we request you to kindly amend the clause as: " 30.Video Compression : H.265/H.264/MJPEG "	As Per RFP
310	34	3.6 Technical Specifications	Note: All the cameras, IR illuminators, Housing should be from single OEM.	The asked clause is OEM specific and also restricting the maximum participation. Hence request you to remove this clause.	Please refer respective response(s) on same subject

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
311	23	3.4 Bill of Material	Rader Based Speed detection system with Solar panel with Pole for installation between 2 gantry location	As per Clause Page no. 26 SECTION 3.5 Functional Requirement Specifications (FRS) 3. Speed Violation Detection (SVD) Point no. A " The system should be video/radar-based speed violation detection system to be used for speed detection" .	Request to please refer to RFP Solution envisaged & SoW.
312	24	3.4 Bill of Material	Supply of channel license for Overview Camera	Request you to please clarify the purpose of overview camera.	Overview camera will be used as for evidential proof & oversee the highway.

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313			<p>Radar based solar powered speed detection system is to be installed in between every two gantry locations to enhance the speed violation detection capabilities and reduce road fatalities. The VMS shall be installed near by the gantry locations, two in the entry & exit point of the stretch and another two in between the stretch. All shall be nearby the gantry locations; the SI is to draw the raw power from the gantry location itself. Similarly, the overview cameras 2 each shall be installed in 4 number of locations based on decision from Office of Transport Commissioner. The Feed will be displayed in the Video Wall separately or combined as and when required. Another two number each overview cameras each shall be installed in three numbers of bordering locations police station. The feed will be displayed in the computer monitor either directly or vide software client. Various alerts shall be displayed in the computer screen for quick reaction/ appropriate action.</p>	<p>Is the fully system solar powered only? For solar what is min back up time in case of rainy days, (number of days of autonomy required?), where solar panel will be mounted? It is assumed there is no Mains power connection to these sites. What is the purpose of overview camera mentioned here? Please clarify. These are to be mounted on gantry?</p> <p>Request you to please reflect the same in Bill of material (BOM) and all other required section also.</p>	<p>Radar based speed detection system will be fully solar powered. Min backup time is 12 hrs. Panel will be mounted at the top of the radar based speed detection pole. No Mains power is available for Radar based solar powered speed detection system Request to please check the RFP for Overview camera usage Overview camera's will be mounted at the gantry</p>

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314	3A		The system should be video/radar-based speed violation detection system to be used for speed detection.	Video Analytics system – Not accepted worldwide. Prone to error. Speed error unto $\pm 20\%$. Also, max speed less than 140 KMPH, while min 200KMPH min required with new generation cars on highways. A 140KMPH speed limited system will be a failure and loss of public funds. (it means a car moving at 150 KMPH can escape the system this will have a negative impact.	As Per RFP
315	3B- 26		The system should be video/radar-based speed violation detection system to be used for speed detection.	Video Analytics system – Not accepted worldwide. Prone to error. Speed error unto $\pm 20\%$. Also, max speed less than 140 KMPH, while min 200KMPH min required with new generation cars on highways. A 140KMPH speed limited system will be a failure and loss of public funds. (it means a car moving at 150 KMPH can escape the system this will have a negative impact.	As Per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
316	2D-25		The offered system should be able to detect vehicle registration plates along with speed violation detection for vehicles having speed even more than 140 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.	Min Speed limit should be 180kmph. Video analytics have a limitation of 140kmph. More than that speed error rate is higher. So, 3D/4D Doppler radar is a must. Else system will not capture true over speeding vehicles & system will be a total failure.	As per RFP
317	3.6.2 & 3.6.3		The system should capture HSRP & standard vehicle's number plates with an accuracy of at least 95 % across the day (without white strobe light) 24x7.	For standard plates night accuracy not mentioned. (should be also 95%) For nonstandard plate accuracy not mentioned: min ANPR accuracy > 85% day & night.	24x7 which means across day & Night

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
318			ANPR CAMERA, HOUSING & Overview Bullet Network Camera	High performance Global shutter camera should be used : to meet high speed capture up to 240KMPH, no motion blur, day & night image quality to identify vehicle etc. (what is mentioned is a general-purpose camera). The spec should be such that the ANPR camera should meet the performance requirement & minimum 2 mega pixel vehicle detection rate of minimum 95% in free traffic flow for all vehicles required. - not mentioned anywhere. and should capture high quality vehicle images in day & night up to 180 KMPH without any motion blur (for police crime analysis)	As per RFP
319	as above		ANPR CAMERA, HOUSING & Overview Bullet Network Camera	Wide angle court evidence camera not mentioned?	As per RFP
320	3.6.1-30		Local Processing Unit (LPU) - Motherboard supports i5 / i7 with CPU Cooler	LPU should be able to mention any standard one like NVIDIA/Intel /AMD based boards.	Intel Base already mentioned in the RFP
321	2A-25		The System should automatically detect a vehicle in the camera view using video detection and activate Registration plate recognition.	Point to be changed. Detection using Doppler radar system.	As Per RFP

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322	3C-26		The technology should have been certified/tested by a reputed Indian test laboratory or institute under central government. Such certificate/test report should be submitted along with PQ bid.	Should be changed to as OR International speed calibration certificate from an approved metrological LAB for speed measurement. (as 3D radars are not manufactured in India)	As per RFP
323	8M-28/29		Vulnerability Assessment and Penetration Testing (VAPT) audit for the ITMS software is a must requirement, and the application has to follow the OWASP guidelines.	Such points should be made generic to attract more competitive bid	As Per RFP
324			Certificate for the VAPT audit report in the name of software OEM need to be submitted.	Such points should be made generic to attract more competitive bid	As Per RFP
325	8G-28		The Software OEM must satisfactory running certificate for roadside installation from any Government Department.	Such points should be made generic to attract more competitive bid	As per RFP
326	8D-28		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	To be changed as Server software may run on Linux/Windows.	As per RFP

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327	3.1-18		The STA authority already have some mobile speed detection system in place & may procure some vehicles too in future, the selected SI need to integrate those vehicles and systems in the new environment without any preconditions for ease & single point of operation. It is also to be noted that, the challan generation will be same also after integration	suitable API should be provided	Office of the Transport Commissioner will provide the required API/ SDK
328	6 & 7, 27 & 28		No Helmet Detection System & Triple Ride Detection	Is AI detection to be done on the same set of cameras for Over speed violation? In that case only speed violated vehicle to be processed for AI based violations. Or all the vehicle needs to be processed?	AI detection to be done by the ANPR camera with the help of central software to meet the RFP FRS criteria
329	13		All the camera nodes will be connected through Optical Fiber Connectivity (OFC) and the system should be such that in course of temporary failure of network, the data shall be stored in the local device& as and when the network is restored, the data shall be synced to the server.	Is Field Optical Fiber connectivity available all over the 100 stretch? If not, should bidder quote for that also?	STA will provide
330	46	3.6.12	Request you to add	LED Type: SMD 3 in 1	Not Considered
331	46	3.6.12	Request you to add	LED Pixel Pitch : P10	Amendment: LED Pixel Pitch: DIP P10

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
332	46	3.6.12	Request you to add	As per IRC guidelines request you to add below clause " Each LED shall be encapsulated with secondary lens"	Not Considered
333	37	3.6.6	Voltage AVR Mode - 200~245V	Request you to amend ONLINE UPS	As Per RFP
334	37	3.6.6	Voltage 24VDC	Request you to amend Voltage 24/36VDC	As Per RFP
335	37	3.6.6	Internal Battery; 2x12V/9AH	Request you to amend with 2x12V-9AH/ 3x12V-7AH/	As Per RFP
336	40	3.6.9	AVR Built in Automatic Voltage Regulator (AVR)	Request you to amend with ONLINE UPS	As per RFP
337	74,75	5.3	40% of cost of Equipment's including Hardware & software application license including Warranty support charge as per format provided.	50% of cost of Equipment's including Hardware & software application license including Warranty support charge as per format provided.	Please refer respective responses(s) on same subject
338	74,75	5.3	20% of cost of Equipment including Hardware & Accessories including Warranty support charge on its installation and commissioning as per format provided	10% of cost of Equipment including Hardware & Accessories including Warranty support charge on its installation and commissioning as per format provided	Please refer respective responses(s) on same subject
339	41	3.6.10	3.6.10. 2X2 -50" LASER Full HD Video Wall and Controller	2 x 2 full HD, 55" LED panels with 1.7 mm bezel with videowall controller	As per RFP
340	41	3.6.10	Video wall cubes of 50" diagonal in a 2 x 2 configuration complete with base stand	Video wall cubes of 55" diagonal in a 2 x 2 configuration complete with base stand / wall mounting	As Per RFP
341	41	3.6.10	Brightness of Projection engine, Minimum 2000 lumens	Request you to remove as not applicable	As per RFP
342			≤ 0.2 mm	1.7 mm	As Per RFP
343			Total Cube depth should be ≤744 mm	Should be less than 100 mm	Amendment: Total Cube depth should be ≤ 470 mm

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
344			Rear	Front	As Per RFP
345				Request you to omit as Not applicable	Query Incomplete
346			Display & Controller should be from the same manufacturer	This is against the fair competition norms; this clause should be deleted. these types of specs are monopolistic and unacceptable	As Per RFP
347			Request to Add	For every violation one lane image of vehicle & 2 wide angle evidence image (for court room evidence that vehicle was on the road at the time of violation) should be captured . Wide angle camera should cover surroundings of the road also),. The two wide angle images should be automatically captured with violating vehicle at 2-time instances during transit. this is a widely accepted standard.	Minimum BoM remains same, bidder may offer additional items as per their solution.
348			Request to Add	Along with number plate, high quality image of vehicle, also to be captured at Day and Night conditions for all vehicles. The vehicle image should have sufficient quality to identify make, model and marking etc on vehicle for crime analysis purpose.	Not Considered

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
349			Request to Add	System should support & enforce both Spot speed and Average speed, ANPR camera captures vehicle image / vehicle registration number, based on trigger from Radar sensor with time stamp and speed information. Accurate time stamp synchronized with GPS or NTP servers required for Average speed enforcement between two ANPR cameras.	Not Considered
350			Request to Add	Roadside Embedded hardware, network switch etc. Local storage with 256GB or more storage site. All industrial grade hardware should be provided.	Not Considered
351			Request to Add	remote health monitoring should be part of system.	Already mentioned in published RFP
352			Request to Add	The deep learning based ANPR system should improve the number plate detection for up to 95 percent for all vehicles with standard number plates during the day and night time (with proper illumination / provision of IR light). Min 80% for all humanly readable nonstandard plates day or night.(limitations apply to nonstandard / hidden plates for 2 wheelers for front capture)	Not Considered

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
353			Request to Add	IR flash is missing in BOM. It is necessary for capturing high quality images at night without depending on the presence of ambient light. Infrared flash for image capture at night, synchronized flash with global shutter of camera. Flash power sufficient to capture vehicle images also at night (not only the License Plate).This is a very important feature for crime analysis.	Request to please refer ANPR camera with IR & Housing
354			Request to Add	High vehicle detection rate: greater than 95% of all vehicles captured under all conditions, irrespective of number plate quality, in free flow traffic conditions.	Already mentioned in published RFP
355			Request to Add	High vehicle classification accuracy: greater than 90% of all vehicles captured during day & night. Minimum 4 classification to be done.	Not Considered
356			Request to Add	Violating vehicle should be clearly marked on the image, to avoid any confusion with other vehicles nearby.	Already mentioned in published RFP
357	30	3.6	Image Sensor : 1/2" Progressive CMOS or better	Please change to :1/2.8" progressive scan RGB CMOS	As per RFP
358	30	3.6	Focal Length : f = 15 ~ 40 mm or better	Should be left to SI Scope	As Per RFP
359	30	3.6	On-board Storage: Slot type: SD/SDHC/SDXC card slot	Support up to 2 TB	As Per RFP
360	30	3.6	S/N Ratio: 60dB or Better	NA	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
361	30	3.6	Dynamic Range :140 dB or better	Please change to :120 db. or better	Amendment: Dynamic Range 130 dB or better
362	30	3.6	IR Distance: 260 meters or Better	ANPR requires max 40 meter	Amendment: IR Distance - minimum 120 meter or better
363	30	3.6	No of Streams 4: 4 simultaneous streams or Better	4 streams @H.265,25 FPS,2MP	Amendment: 3 simultaneous streams or Better
364	30	3.6	Image Settings: LPC scene mode	scene profiles: forensic, vivid, traffic overview	Amendment: Image Settings - LPC scene mode is optional
365	30	3.6	Protocols: DDNS, DHCP, DNS, FTP, HTTP, HTTPS, Ipv4, Ipv6, NTP, PPPoE, QoS, RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS, UDP.	Please add :MQTT,SRTP,QoS,Syslog,there should be no option to activate & De-activate Gb/T-28281 protocol either from firmware or from camera browser .	As per RFP
366	30	3.6	Alarm and Event – Alarm Trigger: Manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection, advanced motion detection, SD card life expectancy, cybersecurity events (brute force attack event, cyberattack event, quarantine event)	Manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection, advanced motion detection, SD card life expectancy, cybersecurity events (brute force attack event, cyberattack event,) quarantine event is not clear please do it optional or remove it	Amendment: Alarm and Event – Alarm Triggers- Manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, advanced motion detection, SD card removal, network disconnection
367	30	3.6	Safety Certifications: IP Camera : CE, FCC, UL (All Three Mandatory)	Please add :NIST SP500–267	As per RFP
368	30	3.6	Certifications IEC 62471, EN 50130-4, CE: EN61000-6- 3, EN60598-1, EN60598-2-5, FCC Class A, EN60529:	Please add :NIST SP500–267	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
369	30	3.6	Integrated Control: Built-in photocell for automatic IR on/off	IR SI SCOPE	As per RFP
370	30	3.6	Make / Brand	Any globally reputed Manufacturer presence in India for last 5 Years.	As per RFP
371	30	3.6	Image Sensor: 1/2.8" Progressive CMOS or better	Please change to :1/2.9" Progressive CMOS or better	As per RFP
372	30	3.6	Maximum Resolution: 2560x1920 (5MP)	Please change to :2560x1920/3072x1728 (5MP)\	As per RFP
373	30	3.6	Focal Length :f = 2.7 ~ 13.5 mm or better	Please change to :2.8–8.5 mm	Amendment: Focal Length: f = 2.8 ~ 12 mm or better
374	30	3.6	Field of View: 30° ~ 100° (Horizontal) or Better	Pls change to :36° ~ 100° (Horizontal) or Better	Amendment: As Per Bidders choice to meet the requirement, at least 3 lanes should cover
375	30	3.6	Field of View: 23° ~ 72° (Vertical) or Better	23° ~ 55° (Vertical) or Better	Amendment: As Per Bidders choice to meet the requirement
376	30	3.6	Shutter Time : 1/5 sec. to 1/32,000 sec	Better :1/62500 s to 2 s	As Per RFP
377	30	3.6	WDR : 110dB or better	Better :120db	As Per RFP
378	30	3.6	S/N Ratio : 50DB or better	NA	As Per RFP
379	30	3.6	Minimum Illumination:0.06 Lux @ F1.4 (Color) or better	Pls change to :Color: 0.15 lux, at 50 IRE F1.2 B/W: 0.03 lux, at 50 IRE F1.2	As per RFP
380	30	3.6	Minimum Illumination: <0.01 Lux @ F1.4 (B/W),0 Lux with IR illumination on or better	Pls change to :Color: 0.15 lux, at 50 IRE F1.2 B/W: 0.03 lux, at 50 IRE F1.2	As per RFP
381	30	3.6	On-board Storage :Slot type: MicroSD/SDHC/SDXC card slot Seamless Recording VIDEO	Support up to 2 TB	As Per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
382	30	3.6	Compression:H.265, H.264 & MJPEG	Please change to :H.265/H.264 & MJPEG	As Per RFP
383	30	3.6	Frame Rate: 30 fps @ 2560x1920,30 fps @ 2560x1440,60 fps @ 1920x1080	Pls change to :30 fps @ 2560x1920/3072x1728 ,30 fps @ 1920x1080	As Per RFP
384	30	3.6	Streams: 3 simultaneous streams or better	Better :4 stream at 5 MP ,25fps,h.264	As Per RFP
385	30	3.6	S/N Ratio :50dB or better	NA	As Per RFP
386	30	3.6	Dynamic Range :110 dB or better	Better 120 db.	Amendment: Dynamic Range is optional
387	30	3.6	Video Streaming: Adjustable resolution, quality and bit rate control, Smart Stream III	Smart Stream III is OEM specific pls remove this	Amendment: Video Streaming Smart Stream III is optional
388	30	3.6	Image Settings: DIS	Please remove this	As per RFP
389	30	3.6	Audio Capability : Two-way Audio (full duplex)	pls change to :One way (Simplex)	As per RFP
390	30	3.6	Interface : Built-in Microphone	Pls change to :External microphone	Amendment: Built-in Microphone is optional
391	30	3.6	Interface :External line output	Please remove this	As Per RFP
392	30	3.6	Protocols: Ipv4, Ipv6, TCP/IP, HTTP, HTTPS, TSP/RTP/ RTCP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, SNMP, SSL, TLS	Please add :MQTT,SRTP,QoS,Syslog,there should be no option to activate & De-activate Gb/T-28281 protocol either from firmware or from camera browser .	As per RFP
393	30	3.6	Smart Motion Detection: Five-window video motion detection, human detection, time filter	Pls change to :Five-window video motion detection/ human detection, time filter As human detection comes into AI based analytics	As Per RFP
394	30	3.6	Audio : Audio output	Please remove this	As Per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
395	30	3.6	Power Input : DC 12V , IEEE 802.3af/at PoE Class 0	Please change to :12V/IEEE 802.3af/at POE Class 3	As per RFP
396	30	3.6	Operating Temperature: 0° C ~ 60°C or Better	Better " -40 to 60	As per RFP
397	30	3.6	Humidity: 90% or better	Better :10-100	As per RFP
398	30	3.6	Speed limit is 150 km/hr..	In highway people dry much faster than this with new cars-it should be 250 KM Limit	As Per RFP
399	30	3.6	Gen Certification query	What about certifications for instant speed, Certifications	As Per RFP
400	30	3.6	Gen Certification query	What about certification for average speed	As Per RFP
401	30	3.6	Gen BOM compliance / specification	What about specifications of radar (nothing mentioned about it)	Pls. read the Solution envisaged, Specifications along with the SoW.
402	30	3.6	Gen Technology compliance in India	Majority of the NHAI projects under MORTH , Eastern peripheral. NH1, and all other state high way projects have asked for forward firing radar-based speed detection for High accuracy detection and speed measurements to Avoid any legal disputes .	As Per RFP
403	19	Installation Locations	Installation Locations	Table for the locations especially the Lat and long is not mapping with the Google map it is showing offset of 4-5 Kms	As per RFP. Any offset values will be determined during Gantry Installations and thereof.

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404	23	3.4		Radar based speed detection quantity of Radar mentioned is 40 It should be 48	Radar based quantity required is 40 Please Note: The Radar based solar powered speed detection system is completely independent & standalone system which will not be integrated with the central software at this point of time. Similarly, neither those locations have main/raw power nor any network connectivity, also it will not be integrated with the e-challan system as well. It will display the speed of the vehicle & main goal is to make the vehicle drivers aware of their driving speed & helps in reducing the road accident.
405	23	3.4		Surveillance camera should be 42 for the 6 lanes 21 locations instead of 8	Only 4 Out of 21 locations will have the Surveillance camera
406	24	3.4		50-inch panels are not standard pl. either make it 49 inch or 55 inches	As Per RFP
407	127	Annexure 9		Drawing is blurred and not readable Pl. provide separate file	As per RFP
408	129	Annexure 10		Drawing is blurred and not readable Pl. provide separate file	As per RFP
409	129	Annexure 11		Purpose of this drawing is not clear is this for the VMS or for the RADAR speed Indicator display ??	Please refer respective response(s)

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
410	11	Project Background	Various data analytics that shall be offered on ANPR and Speed Cameras through IEMS are: a) Speed Violation Detection b) Wrong direction movement (Reverse Riding) c) No Helmet on two wheelers. d) Triple riding on two-wheelers e) Improper Lane Driving	Please clarify : Improper Lane Driving means Alert on Driver Driving in Opposite Direction or Alert on Someone change the lane from slow to fast .	Improper Lane Driving corresponds to "Lane Driving Condition Violation"
411	24	Bill Of Quantity / Section -A	Sr. No - 1 : ANPR Camera : (4 Lane = 12) + (6 Lane = 126) = 138 Nos.	So, with our understanding the distribution of 24 location will be as follows : 4 Lane Monitoring (Front or Rear) = 3 Location + 6 Lane Monitoring (Front or Rear) = 21 Location Total = 24 Locations	As per RFP Understanding is in line with the requirements
412	24	Bill Of Quantity / Section -A	Sr. No. - 2 : Overview/ Surveillance Camera (4 Lane = 6) + (6 Lane = 8) = 14Nos.	Needs clarity on the location for these Cameras and the expected application of these Cameras	Overview camera will be used for evidential proof & oversee the highway. Each camera will focus on three lanes at each side.
413	24	Bill Of Quantity / Section -A	Sr. No. - 3 : Supply Pole Security Camera Qty = 24 Nos.	Please confirm on : a. Height of these pole can be 7 Mtrs or 10 Mtrs. b. Can we go for Fixed Pole of Collapsible Poles	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
414	24	Bill Of Quantity / Section -A	Sr. No. -5 : LPU Hardware with 4TB HDD 48 Pairs	Can we assume 4 lanes as (2+2) & 6 lanes as (3+3) roads? So (2+2) number of systems required = 6 And (3+3) number of systems required = 42 Please confirm our assumption is correct Total = 42+6 =48 systems.	As per RFP Understanding is in line with the requirements
415	24	Bill Of Quantity / Section -A	Sr. No. - 9 : Rader Based Speed detection system with Solar panel with Pole for installation between 2 gantry location	Please confirm on : a. Height of the Pol to be considered : 8 Mtrs b. What Height the Camera can be installed : 7 Mtrs	As per RFP
416	25	2	The system should detect the color of all the vehicles on best effort basis, in the camera view during daytime and label them as per the predefined list of configured system colors. The system should store the color information of each vehicle along with the registration plate information for each transaction in the database.	System can identify easily the Vehicles with standard patterns : Ambulance , Fire Brigade. Please advise on any other vehicles with typical patterns which can be defined in the system.	More details will be intimated during the implementation. E.g. Ambulance, Fire Brigade, Police, Interceptor vehicles etc.

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417	18	3.1	<p>The application should also have the provision for getting integrated with other Office of Transport Commissioner, Govt. Applications with their versions during the course of the IEMS Project like:</p> <ul style="list-style-type: none"> E-challan CCTNS (Crime and Criminal Tracking Network and Systems) Vahan 4.0 Sarathi 4.0 ERSS (Emergency Response Support System) VLT (Vehicle Location Tracker) IRAD (Integrated Road Accident Database) OPMS (Odisha Permit Management System) All Interceptors Road safety management system VLT (Vehicle Location Tracker) of Odisha Mining Corporation Toll Gates 	<p>There must be standard interface for communication between IEMS and other application system. Would request the department for more clarity on the same</p>	<p>As per RFP</p>

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
418	25	3.5	System should be able to detect and recognize the English alpha numeric registration plate in standard fonts and formats for classes of vehicles (provided as annexure) such as Cars, Heavy Commercial Vehicles, Three Wheelers and Two Wheelers or any vehicles that require Registration for plying on roads.	Please clarify:- The objective is to classify the Vehicles through Registration number plate database in VAHAN or by video analytics ?	As per RFP. Registration Plate will have diligence from VAHAN and /or SARATHI D/B of latest versions.
419	28	3.5	The system should allow the operator to create continuous recording schedule for the camera based on the time of day and day of week. It should be possible to set the camera recording schedule for a single camera or a group of cameras or all cameras	Pls clarify:- 1. In which format/Quality recording should be stored? 2. What should be the duration of storing such database.	Will be finalized mutually during the implementation phase
420	50	4.3.1	Bidder to mention the required infra at Odisha State Data center to host the proposed application in their Technical proposal	As per RFP Only Data center is supposed to be there, NO DR is mentioned. Please confirm	Confirmed

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
421	56	5.3	During the POC, the bidders need to conduct the demonstration with their proposed Equipments and Solution as mentioned in their submitted document, if any deviation is noticed in any respect, the bidder will be blacklisted	<p>Suggestion change:- During the POC, the bidders need to conduct the demonstration with their proposed Equipments and Solution as mentioned in their submitted document, if any deviation is noticed in any respect, the bidder will be blacklisted rejected.</p> <p>Additional Point suggested:- Secondly, the PoC could be demonstrated by Bidder through online demo of the solution.</p>	As Per RFP
422	57	5.3	During the POC, the bidders need to conduct the demonstration with their proposed Equipments and Solution as mentioned in their submitted document, if any deviation is noticed in any respect, the bidder will be blacklisted	<p>Pls clarify:-</p> <ol style="list-style-type: none"> 1. What will be the scope and duration of POC? 2. Whether Bidder can demonstrate PoC online for the proposed solution. 3. Which are the key features to be demonstrated in PoC. 	POC evaluation criteria including marks distribution, pass marks etc. will be communicated to the eligible bidders at later stages during the TQ Evaluation, before conducting the POC

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
423	25	3.5	<p>The traffic violation detection system should detect the following traffic rules violations: Automatic Number Plate Recognition and detection of all vehicles passing and offending against:</p> <ol style="list-style-type: none"> 1. Speed Violation 2. No Helmet 3. Triple Ride 4. Reverse Lane Riding 5. Wrong Lane Driving 	<p><u>Suggest to please modify:-</u> The traffic violation detection system should detect the following traffic rules violations: Automatic Number Plate Recognition and detection of all vehicles passing and offending against:</p> <ol style="list-style-type: none"> 1. Speed Violation 2. Red-light jumping No Helmet 3. Triple Ride 4. Reverse Lane Riding 5. Wrong Lane Driving <p>The above offences should be covered in Phase-1 of the Project i.e. T+6 months. While following features should be covered in phase 2 of the project to be covered by T+9 months using the same solution:</p> <ol style="list-style-type: none"> 1. No Helmet 2. Triple Ride 3. No-seat belt 4. Talking on mobile <p>"T" means start date of the contract.</p>	As Per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
424	25	3.5	The system should detect the color of all the vehicles on best effort basis, in the camera view during daytime and label them as per the predefined list of configured system colors. The system should store the color information of each vehicle along with the registration plate information for each transaction in the database.	Request deletion:- Identification of Vehicle color is difficult in Night as well as extreme weather conditions such as rain, hail, snow, high intensity sunlight. Kindly, remove this clause.	As Per RFP
425	26	3.5	The system should generate an automatic alert in the control room when it detects the vehicle from the hot list/s through the ANPR camera. The system should give an instant alert in such case (within 4 Sec). The system should also have the functionality to send the alert via email and SMS to designated email addresses and mobile phone numbers.	<u>Request to modify clause:-</u> The system should generate an automatic alert in the control room when it detects the vehicle from the hot list/s through IEMS Solution / the ANPR camera . The system should give an instant alert in such case (within 4 Sec). The system should also have the functionality to send the alert via email and SMS to designated email addresses and mobile phone numbers.	As Per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
426	26	3.5	The system should allow the operator to change the hot list category of the vehicle and accordingly the new hot list category should be reflected in the records stored in the database. E.g. on retrieval of stolen vehicle, system entry should be changed from "Stolen" to "Retrieved".	<u>Request to modify clause:-</u> The system should allow the operator to change the hot list category of the vehicles and accordingly the new hot list category should be reflected in the records stored in the database. E.g. on retrieval of stolen vehicle, system entry should be changed from "Stolen" to "Retrieved".	As Per RFP
427	26	3.5	The system should have the functionality to trace the movement of a vehicle of interest on Google Map. The Function should show the trajectory of the vehicle drawn on the map. The vehicle of interest should be tracked for all the locations where it is detected through ANPR.	Request for deletion of the clause.	As Per RFP
428	26	3.5	The system should have function of quickly searching the number plate based on the following criteria: · full or partial number of the registration plate, · color of the vehicle, · classification of vehicle, · Junction/Location Name · Event Type (e.g. ANPR, Speed Violation, No Helmet Detection, Triple Ride Detection etc.)	<u>Please modify the Clause:-</u> The system should have function of quickly searching the number plate based on the following criteria: · full or partial number of the registration plate, · color of the vehicle, · classification of vehicle, · Junction/Location Name · Event Type (e.g. ANPR, Speed Violation, Red-light, No Helmet Detection, Triple Ride Detection etc.)	As Per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
429	26	3.5	The search should yield a result with the cropped image of the registration plate in a matrix format.	Request to Please elaborate on the Matrix format.	Matrix format for representing data arranged in row & columns for analysis.
430	26	3.5	The system should be able to detect the fake number plate of the vehicle, i.e. two wheelers number plate used in three or four-wheeler or vice versa or Forged etc.	Request to please delete this clause. Since this is only possible for entire Vahan database available with State Department and infrastructure sizing issue would very high to conduct live analysis. And also lead to performance issue.	As per RFP
431	26	3.5	The system should be video/radar-based speed violation detection system to be used for speed detection.	<p><u>Request to please modify the Clause as:-</u> The system should be video/4D Doppler radar-based speed violation detection system to be used for speed detection for Vehicles plying up to speed 250 Kmph. Secondly, Speed Violation Detection should be certified on OIML D11 framework.</p> <p><i>Reason:- Radar based solution provides higher accuracy for detection of Vehicle speeds and which can be of better evidence in case of any Court Case.</i></p>	As Per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
432	27	3.5	The system should allow the operator to set different speed limits for different categories of vehicles and different stretches of road.	Request to modify the Clause as:- The system should allow the operator to set different speed limits for different categories (Max. 8 categories) of vehicles and different stretches of road. Proposed IEMS system should also allow Operator to configure different speed for different Lanes.	As Per RFP
433	118-19	Annexure-5	Transport and Non-transport Vehicles	Request to modify the Vehicle classification in 8 Categories as: 1. Motorbike 2. Car, 3. Car with trailer 4. Van, 5. Van with Trailer, 6. Light Truck, 7. Heavy Truck, 8. Bus etc.	As Per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
434	27	3.5	<p>The system should have the deep learning-based video analytics for intelligent traffic management applications such as:</p> <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.) o Fake number plate detection 	<p><u>Suggest to please modify:-</u> The IEMS system should have the Artificial Intelligence / deep learning-based video analytics for intelligent traffic management applications such as:</p> <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.) o Fake number plate detection o No-seat belt o Talking on mobile <p>The features mention above shall be covered in phase 2 of the project and implemented by T+9 months using the same solution. "T" means start date of the contract.</p>	As Per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
435			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.	<p>Suggest to please modify the Clause as:- The deep learning based ITMS system have the option to work locally on the Field Device or can work on centralized architecture. The system should get the live stream from the cameras to the data center for processing.</p> <p>All violation data which is detected by IEMS Field devices is securely punished to the Central system for processing. Such Violation data should include one image, +/- 3 seconds of video for entire violation duration, location, time, etc. Sending entire video stream to central server may require huge bandwidth and processing at the central servers and storage. And Transport department need to specify data Storage duration. All violation data should be secured, and relevant security measures should be in place for transfer and storage of Violation data of any type during the entire project term.</p>	As Per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
436	27	3.5	The deep learning based ANPR system should improve the number plate detection for up to 95 percent for all vehicles with standard number plates during the day and nighttime (with proper illumination / provision of IR light).	<p><u>Since it is practically not possible to achieve same accuracy level in day and night time. Request to change the clause as:-</u></p> <p>The deep learning based IEMSANPR system should improve the number plate detection for up to 90 percent for all vehicles with standard number plates during the day and 80 percent for nighttime (with proper illumination / provision of IR light).</p>	As Per RFP
437	27	3.5	The system should allow the operator to set traffic rule such as “no heavy vehicles during certain time of the day” for selected traffic locations	Request to please delete this clause.	As Per RFP
438	27	3.5	System should have the capability to capture image of two-wheeler rider not wearing helmet and should have automatic number plate recognition (ANPR) of violating vehicle with auto-localization and OCR conversion. The system should have the capability to detect the no helmet instance for the rider and pillion.	Bidder request that the said features shall be covered in phase 2 of the project and implemented by T+9 months using the same solution. "T" means start date of the contract.	As Per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
439	27	3.5	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.	Request to please delete this clause.	As Per RFP
440	27	3.5	The system should be able to detect the speed of the motor bike, if violating the speed rule	Bidder request that this feature should be part of the Speed Violation Detection system not as part of No-helmet detection system	Amendment: The system should be able to detect the speed of the motor bike, if violating the speed rule along with no helmet
441	27	3.5	On detection of No-Helmet, the system should generate events, store them and should allow retrieval of such events on need basis for later analysis.	<u>Suggest modifying the Clause as:-</u> On detection of No-Helmet, the system should generate events, store them and should allow retrieval of such events on need basis for later analysis. All violation data which is detected by IEMS Field devices is securely punished to the Central system for processing incl. Challan issuance. Such Violation data should include one image, +/- 3 seconds of video for entire violation duration, location and time.	As Per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
442	28	3.5	The system should be able to differentiate a person sitting on a motor bike and a pedestrian in the proximity of the motor bike.	Request to please delete this clause.	As Per RFP
443	28	3.5	System should have capability to identify and eliminate non-standard crash helmets like industrial safety helmets, sports helmets (cricket, cycling, etc.) and mark them as invalid	Request to please delete this clause.	As Per RFP
444	28	3.5	No- Helmet detection system should seamlessly integrate with systems like ANPR, Speed Detection and should have unified user interface	Bidder request that the said features shall be covered in phase 2 of the project and implemented by T+9 months using the same solution. "T" means start date of the contract.	As Per RFP
445	28	3.5	The system should have the capability to detect the persons riding triple seat on the motor bike. The system should capture the number plate of the motor bike with ANPR and generate an alert with the evidence video.	Bidder request that the said features shall be covered in phase 2 of the project and implemented by T+9 months using the same solution. "T" means start date of the contract.	As Per RFP
446	28	3.5	The system should be able to detect the No Helmet violation for persons riding in triple ride and speed violation.	Bidder request that the said features shall be covered in phase 2 of the project and implemented by T+9 months using the same solution. "T" means start date of the contract.	As Per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
447	28	3.5	The system should allow the operator to create continuous recording schedule for the camera based on the time of day and day of week. It should be possible to set the camera recording schedule for a single camera or a group of cameras or all cameras.	Request to please delete this clause.	As Per RFP
448	29	3.5	The client should have automatic or manual selection of hardware accelerator decoder or software accelerator decoder for smooth media rendering based on the available resources.	Request to please delete this clause, as it is not linked to SLA	As Per RFP
449	59	5.6 Pre-Qualifications Evaluation	<p>Evidence Requirements:- The Bidder/ Lead Partner of consortium (in case of Consortium) should have worked where the CCTV / Electronic Surveillance/ANPR had been installed in at-least 1 Project, with value >= INR 1 crore, with any Central / State Government Departments / PSU in India in last five financial years.</p> <p>Documentary Requirements: Copy of Work Order / Agreement having the scope of work, client details and project value clearly mentioned.</p>	<p>Kindly amend the clause as suggested below: Design & Implementation of IT/ICT infrastructure projects / City wide CCTV Surveillance System / Smart City / all with the Value of projects minimum 1 Cr. Each in last 5 financial years in India / Global.</p> <p>Documentary Requirements: Work Order /Client Certificate/Agreement Copies/ Completion Certificate clearly indicating the scope of work and value of contract and year of engagement.</p>	As Per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
450	60	5.6 Pre-Qualifications Evaluation	<p>Evidence Requirements:- Model Clause / certificate, In view of office memorandum F.No.6/18/2019-PPD dated 23rd July 2020 issued by Public Procurement Division, Department of Expenditure, Ministry of Finance.</p> <p>Documentary Requirements:- Bidders or OEM to provide certificate on letterhead signed by authorized signatory regarding compliance as per Annex III of the mentioned order.</p>	In this regard, Annex III is not available in the RFP. Requesting you kindly provide the Format of Annex-III.	Please refer the Annex III in the order mentioned under office memorandum F.No.6/18/2019-PPD dated 23rd July 2020 issued by Public Procurement Division, Department of Expenditure, Ministry of Finance.
451	62	5.7 Technical Evaluation	<p>Evidence Requirements:- Design & Implementation of IT/ ICT infrastructure projects and City-wide CCTV Surveillance System / Smart City / all with the Value of projects minimum 1 Cr. Each in last 5 financial years in India.</p>	Kindly amend the clause as suggested below: Design & Implementation of IT/ ICT infrastructure projects / City wide CCTV Surveillance System / Smart City / all with the Value of projects minimum 1 Cr. Each in last 5 financial years in India / Global.	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
452	62	5.7 Technical Evaluation	<p>Evidence Requirements:- Integration of CCTV based Public Safety and Traffic Control services over minimum 150 IP cameras during last 5 financial year sin India.</p> <p>Documentary Requirements: WO/Client Certificate/Agreement Copies/ Completion Certificate clearly indicating the Scope of the Project. The work executed for any Ministry/ Department of Gol/ State/UT Government/ Government Organizations</p>	<p>Kindly amend the clause as suggested below: Evidence Requirements:- Integration of CCTV based Public Safety / Traffic Control services over minimum 150 IP cameras / Radar-Based Red-Light Violation Detection System 150 Nos during last 5 financial years in India / Global.</p> <p>Documentary Requirements: WO/Client Certificate/Agreement Copies/ Completion Certificate clearly indicating the Scope of the Project. The work executed for any Ministry/ Department of Gol/ State/UT Government/ Government Organizations in India / Global.</p>	As Per RFP
453	62	5.7 Technical Evaluation	<p>Evidence Requirements:- Project for maintenance of fully IP based CCTV surveillance for ITMS/Smart City/ Airport / any Ministry/ Department of Gol/UT Government/ State Government Organizations in last 5 financial years in India</p>	<p>Kindly amend the clause as suggested below: Evidence Requirements:- Integration of CCTV based Public Safety / Traffic Project for maintenance of fully IP based CCTV surveillance /Radar-Based Red-Light Violation Detection System & Average Speed for ITMS/Smart City/ Airport / any Ministry/ Department of Gol/UT Government/ State Government Organizations in India / Abroad</p>	As Per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
454	62	5.7 Technical Evaluation	<p>Certificate for Speed violation detection. Evidence Requirements:- The technology including solution proposed by bidder for speed violation detection.</p> <p>Documentary Requirements:- Valid Certification copy should certify from NABL accredited laboratory of Government of India.</p>	<p>Kindly amend the clause as suggested below: Evidence Requirements:- The technology including solution proposed by bidder for speed violation detection.</p> <p>Documentary Requirements:- Valid Certification copy should certify from NABL accredited laboratory of Government of India / or equivalent Global Test Report like OIML R91 and OIML D11.</p>	As per RFP
455	28	3.5 Functional Requirement Specifications (FRS)	<p>8 General System Features G. The Software OEM must satisfactory running certificate for roadside installation from any Government Department.</p>	<p>Kindly amend the clause as suggested below: 8 General System Features G. The Software OEM must satisfactory running certificate for roadside installation from any Government Department in India / Abroad</p>	As Per RFP
456	93	6.25.2	Gantry Mounted & CCC Product	UP Time should not consider night as ANPR radars can't be replaced in night time	As Per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
457	11	1.1	<p>Various data analytics that shall be offered on ANPR and Speed Cameras through IEMS are:</p> <p>a) Speed Violation Detection b) Wrong direction movement (Reverse Riding) c) No Helmet on two wheelers. d) Triple riding on two-wheelers e) Improper Lane Driving</p>	<p><u>Request to revise the Clause as:-</u> Various data analytics that shall be offered on ANPR and Speed Cameras through IEMS Solution shall be an integrated unit offering various detection features using multiple technologies such as Radar, LIDAR and Camera. Such integrated Solution shall offer:</p> <p>a) Speed Violation Detection b) Red light Violation Detection (c) Wrong direction movement (Reverse Riding) d) No Helmet on two wheelers. e) Triple riding on two-wheelers f) Improper Lane Driving g) no Seat belt</p>	As Per RFP
458	16	2	<p>The Intelligent Enforcement Management System (IEMS) project aims to install and monitoring the vehicular movements across the designated Highway Road in Odisha and drive the enforcement management through Automatic Number Plate Recognition (ANPR) Camera with latest technology, latest Hardware & systems and user-friendly software.</p>	<p><u>Request to revise the Clause as:-</u> The Intelligent Enforcement Management System (IEMS) project aims to install and monitoring the vehicular movements across the designated Highway Road in Odisha and drive the enforcement management through 4D Doppler Radar / Automatic Number Plate Recognition (ANPR) Camera with latest technology, latest Hardware & systems and user-friendly software.</p>	As Per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
459	16	2	The IEM project will be executed with approximately 140 Nos. of ANPR Cameras with Speed Detection up to 150km/hr. with high accuracy and overview cameras at selected location throughout the 100 KM stretch on NH 16 between Panikoili & Rameswar.	<p><u>Request to revise the Clause as:-</u> The IEM project will be executed with approximately 140 Nos. of ANPR Cameras with Speed Detection up to 250 kmph 150km/hr. with high accuracy and overview cameras at selected location throughout the 100 KM stretch on NH 16 between Panikoili & Rameswar. All such proposed solution should be evaluated against OIML D11 and OIML R91 framework and test reports to be submitted. The Solution may not require dedicated gantry and could be deployed on existing Poles on Road side.</p>	As Per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
460	19	3.1	The scope of the work deliverables for the selected SI 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 Panikoili & Rameswar on NH 16 and can be further extended or modified. This Solution should be designed for zero interruption-based communication from the links among control room and cameras installed and spread over various locations in the 100 KM. Locations of the Gantry or Node along the stretch is as mentioned below:	<u>Request to revise the Clause as:-</u> The scope of the work deliverables for the selected SI is to supply, installation, commissioning and maintenance of 4D Doppler Radar with Automatic Number Plate Recognition Solution Cameras and for Speed Violation Detection System to achieve said objectives for the pilot phase between Panikoili & Rameswar on NH 16 and can be further extended or modified. This Solution should be designed for zero interruption-based communication from the links among control room and cameras installed and spread over various locations in the 100 KM. Locations of the Installation Gantry or Node along the stretch is as mentioned below:	As Per RFP
461	17	3.1	Additional Points	The Traffic Violation detection solution shall be non-intrusive, integrates multi-target 4D Doppler Radar, a highly selective laser sensor and advanced video analytics	Not Considered

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
462	17	3.1	Additional Points	The Traffic Violation detection solution shall be an integrated device with various components on-boarded like radar, lidar, cameras, ANPR, AI, etc, in an integrated Unit for detecting various types of violations such as red-light, over-speed, wrong lane, etc.	Not Considered
463	17	3.1	Additional Points	The Device should be able monitor up to 4 (four) Lanes of Highway or Road	Not Considered
464	17	3.1	Additional Points	The Device should have capability of Live video-streaming and recording of road situation in H264 and 1920x1080 formats	Not Considered
465	17	3.1	Additional Points	The Device can be installed on existing Streetlights, poles or dedicated masts from 3.50 m to 5.5 m above road level and Doesn't required Gantry	Not Considered
466	17	3.1	Additional Points	The Device should support multiple connectivity options to central server through ADSL/ 3G-4G router / Fiber	Not Considered
467	17	3.1	Additional Points	All such field Devices should be monitored, managed and configured through a Central System	Already mentioned in published RFP
468	17	3.1	Additional Points	The Central System supports violation processing, device monitoring and device management	Already mentioned in published RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
469	17	3.1	Additional Points	Central software should support several watchlists.	Already mentioned in published RFP
470	17	3.1	Additional Points	The Device should be CE certified and can be powered with 230 VAC.	Already mentioned in published RFP
471	17	3.1	Additional Points	The system should detect all Vehicles violating the red light or stop line violation when the signal is Red.	Not Considered
472	61	Technical Evaluation Criteria	RFP is asking R&D Facility and Patent in the field of CCTV.	Request Tender authority to delete this clause as this is purely ANPR/Traffic /ITSM/Transport Solution requirement and not normal IP camera Tender. R&D Facility may comply for OEM partner not SI. Requesting authority please delete the clause.	Please refer respective response(s)
473	61	Technical Evaluation Criteria	RFP is asking R&D Facility and Patent in the field of CCTV.	Additional 2 Marks is mention in the Tender document, but total marks calculation is 100 and if we add 2 marks it will became 102. Request authority please clarify and if possible delete this clause as this will be an OEM competency.	Please refer respective response(s)

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
474	62	Technical Evaluation Criteria	Design & Implementation of IT/ ICT infrastructure projects and City-wide CCTV Surveillance System / Smart City / all with the Value of projects minimum 1 Cr. Each in last 5 financial years in India	Request Tender authority to kindly amend it to "Design & Implementation of IT/ ICT infrastructure projects and City-wide CCTV Surveillance System / Traffic Enforcement /ITMS/ Smart City / all with the Value of projects minimum 1 Cr. Each in last 5 financial years in India	As per RFP
475	63	Technical Evaluation Criteria	Integration of CCTV based Public Safety and Traffic Control services over minimum 150 IP cameras during last 5 financial years in India	The RFP is asked for Traffic Enforcement not IP CCTV surveillance. Request authority to add Traffic enforcement criteria here. Please amend the clause " Integration of CCTV based Public Safety and Traffic Control services over minimum 150 IP Cameras / ANPR / RLVD / SVD System during last 5 financial years in India "	As per RFP
476	63	Technical Evaluation Criteria	Demonstration and Proof of Concept (PoC)	Request tender authority to change the clause "Bidders needs to show proposed Product demo online to evaluation Committee"	As per RFP
477	63	Technical Evaluation Criteria	CMMI level 3 certificate	Request authority to amend it to CMMI level 5 certificate	As Per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
478	82	6.14 Patent / Intellectual Property Rights (IPR) / Copy Rights	6.14 Patent / Intellectual Property Rights (IPR) / Copy Rights	<p>Request you to remove this clause.</p> <p>Please ask for SDK and API must to be provided to customer for any integration purpose in future.</p>	<p>Amendment:</p> <p>The Lead Bidder/System Integrator must submit the below from the ITMS software OEM letterhead along PQ submitted documents</p> <ol style="list-style-type: none"> 1. The API and /or SDK will be provided to Office of the Transport Commissioner in detail for any future integration with any IP system. 2. ITMS software OEM need to submit declaration stating scalability and integration with any IP system in future with the help of the shared SDK and / or API. 3. It must be possible to add any number of IP cameras, ANPR cameras, Speed detection cameras, overview cameras, LPU without any extra cost burden to Office of the Transport Commissioner that than the licenses as required. Customer may take one or any number licenses based on the requirement at any time in future. There should not be any minimum or maximum limit of software licenses. 4. There should not be any dependency with the OEM and /or SI, in case the STA extends

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
479	41	Technical Specification	3.6.10. 2X2 -50" LASER Full HD Video Wall and Controller	Request Tender authority please clarify the dimension of the board requirement.	Request to refer RFP for Solution envisaged & SoW along with the specification.
480	PDF Page No: 31 Document Page No: 30	3.6 Technical Specifications of Video Management & Operator Functions	5. Hard Driver 4TB, Grade HDD (Seagate SV35 or equiv.) /7000 RPM CPU	We request to modify the clause as: Hard Driver 1TB, HDD for fair and healthy competition.	As Per RFP
481	PDF Page No: 31 Document Page No: 30	3.6 Technical Specifications of Video Management & Operator Functions	3.6.2. ANPR Cameras and Housing	2MP ANPR Camera specifications are restrictive specifications which has been specified keeping one specific OEM VIVOTEK; model number: IP816A Surveillance Camera in mind, to avoid fair competition and NOT IN THE INTEREST OF ODISHA Transport Kindly remove the specification and we request to include standard 2MP ANPR camera specifications for fair and healthy competition.	Request to please check the revised specifications in the corrigendum document through amendments

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
482	PDF Page No: 34 Document Page No: 33	3.6 Technical Specifications of Video Management & Operator Functions	3.6.3. Overview Bullet Network Camera	5MP Bullet Camera specifications are restrictive specifications which has been specified keeping one specific OEM VIVOTEK; model number: IB9387-EHT Surveillance Camera in mind, to avoid fair competition and NOT IN THE INTEREST OF ODISHA Transport Kindly remove the specification and we request to include standard 4MP or 5MP Bullet camera specifications for fair and healthy competition.	Request to please check the revised specifications in the corrigendum document through amendments
483	PDF Page No: 36 Document Page No: 35	3.6 Technical Specifications of Video Management & Operator Functions	3.6.4. Pole Security / Surveillance Camera	2MP Pole Security / Surveillance Camera specifications are restrictive specifications which has been specified keeping one specific OEM VIVOTEK; model number: IB9360-H Surveillance Camera in mind, to avoid fair competition and NOT IN THE INTEREST OF ODISHA Transport Kindly remove the specification and we request to include standard 2MP Security camera specifications for fair and healthy competition.	Request to please check the revised specifications in the corrigendum document through amendments

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
484	PDF Page No: 45 Document Page No: 44	3.6 Technical Specifications of Video Management & Operator Functions	3.6.14. Radar Based Speed Display System	Rada Based specifications are restrictive specifications which has been specified keeping one specific OEM in mind, to avoid fair competition and NOT IN THE INTEREST OF ODISHA Transport Kindly remove the specification and we request to include standard specifications for fair and healthy competition.	As per RFP
485	PDF Page No: 61 Document Page No: 60	5.6 Pre-Qualifications Evaluation	Resource competency (Technical Resources= 2 Nos.) during Implementation and integration phase	Deployment of resources will be decided on project implementation time, request to remove the no replacement clause	As Per RFP
486	PDF Page No: 62 Document Page No: 61	5.7 Technical Evaluation	Additional 2 marks for bidder (Prime bidder, in case of Consortium) if they have R&D Facility, at least 2 Patents filed in CCTV, Surveillance system. Subject to maximum up to 7 years of relevant experience	Request to clarify why bidder required R&D facility since they are integrating the products supplying by respective OEMs. Incase R&D facility required for OEMs, declaration letter from OEM should be submitted.	Please refer respective response(s) on same subject
487	20	3.1 Scope of Work for System Integrator	It is also to be noted that the software application developed by the selected SI must be certified by STQC/ CERT-IN authority prior Go-Live and the certificate needs to be submitted to the STA authority for hosting the application.	The point should be deleted as it is specific to one particular OEM and will limit the participations of the other OEM	As Per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
488		6.16. VMS/ IVA Software	additional	The VMS & Analytics and ANPR Software should have OS partner certification from last 3 consecutive years for tight integration with operating system.	Not Considered
489		6.16. VMS/ IVA Software	additional	The VMS should have ONVIF Profile S & G compliance and OEM should have at least Contribution Level member or full level membership.	Not Considered
490		6.16. VMS/ IVA Software	additional	The software should comply that all client to server and server to server communications are compressed and encrypted and connection specific key should be 256-bit AES and data encryption should be 256-bit AES. VMS software should have the Encryption algorithm of 4096-bit RSA and hashing of SHA -512 for tamper proof data. The exported video should be saved in SEF (Secure Export Format) for secure non tamper file system with Password key which can be set to 24 Characters. The Client application should support dual password mode for each user.	Not Considered

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
491		6.16. VMS/ IVA Software	additional	<p>Face blurring & Moving object blurring Software should have all of the below features: 1) Privacy zones, 2) Facial blurring and 3) Moving object blurring should be configured in the same UI under System configuration. 4) The privacy functionalities are available also in the exported clips.</p>	Not Considered
492	60	5.6 Pre-Qualifications Evaluation	The Bidder/ Lead Partner of consortium (in case of Consortium) should have worked where the CCTV / Electronic Surveillance/ANPR had been installed in at-least 1 Project, with value >= INR 1 crore, with any Central / State Government Departments / PSU in India in last five financial years.	<p>We request you to kindly change the clause as below:</p> <p>The Bidder/ Any member of consortium should have worked where the CCTV / Electronic Surveillance/ANPR had been installed in at-least 1 Project, with value >= INR 1 crore, with any Central / State Government Departments / PSU in India in last five financial years.</p>	As Per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
493	61	5.6 Pre-Qualifications Evaluation	The resources mentioned during bid submission should be deployed for the project implementation phase onsite at Cuttack. No replacement of resources will be entertained.	<p>We request you to kindly change the clause as below:</p> <p>The resources mentioned during bid submission should be deployed for the project implementation phase onsite at Cuttack.</p> <p>In case of any replacement Bidder should take prior approval from client and replacement of resource with equal or higher experience to be done with respect to project timeline</p>	Please refer respective response(s)

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
494	62	5.7 Technical Evaluation	<p>Minimum three years of experience of the bidder, (in case of Consortium Prime bidder) in IT/ ICT infrastructure projects / CCTV Surveillance System / Smart City/ City wide Surveillance system in last 3 financial years in India.</p> <p>Additional 2 marks for bidder (Prime bidder, in case of Consortium) if they have R&D Facility, at least 2 Patents filed in CCTV, Surveillance system. Subject to maximum up to 7 years of relevant experience</p>	<p>We as a prime bidder have participated in various Smart City/Safe City/ICT/CCTV/IT projects there is no specific clause regarding the R&D Facility in this type of tenders as the Bidders that participate in this type of tenders are Infrastructure companies. Hence we request you to kindly change the clause as below:</p> <p>Minimum three years of experience of the bidder, (any member in case of Consortium) in IT/ ICT infrastructure projects / CCTV Surveillance System / Smart City/ City wide Surveillance system in last 3 financial years in India.</p>	Please refer respective response(s)
495	63	5.7 Technical Evaluation	<p>Project for maintenance of fully IP based CCTV surveillance for ITMS/ Smart City/ Airport / any Ministry/ Department of GoI/ UT Government/State Government Organizations in last 5 financial years in India</p> <ul style="list-style-type: none"> · 1 Project = 5 marks · 2 Projects = 10 marks 	<p>We request you to kindly change the clause as below:</p> <p>Project for maintenance of fully IP based CCTV surveillance for ITMS/ Smart City/ Airport / any Ministry/ Department of GoI/ UT Government/State Government Organizations in last 5 financial years in India</p> <ul style="list-style-type: none"> · 1 Valid Project= 10 Marks · Non- Availability= 0 Marks 	As Per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
496	59	5.6 Pre-Qualification Criteria - Blacklisting	The Bidder / All Consortium Partners (in case of consortium)/ OEM should not have been Blacklisted/ Banned by any State / Central Government in India/ PSUs/ Any Government Internationally as on bid submission date for corrupt, fraudulent or any other unethical business practices or for any other reason.	As this Project Implementation is in India we would Thus request end user to kindly remove international blacklisting criteria for OEM and modify the clause as below: " The Bidder / All Consortium Partners (in case of consortium)/OEM should not have been Blacklisted/Banned by any State / Central Government in India/PSUs only"	As Per RFP
497	48	4	Submission of Tender Fee of Rs. 10,000 in the form of DD and EMD of Rs.35,00,000.00 in shape of DD or BG from any nationalized / scheduled bank in prescribed format as mentioned in the RFP).	Kindly Please allow exemption of Tender fees & EMD for registered MSME and start-ups as per Central Procurement Policy (CPP) - Government of India.	Amendment: EMD exemption for MSME Bidders will be accepted. The Bidder needs to provide MSME Details in Envelope 1.
498	60	5	Technical Resource with 7-10 years of relevant experience only and having at least two implementation and integration experiences on the proposed solution in CCTV, Surveillance, ANPR, Networking Domain. Minimum qualification for the resources should be B.E./B.Tech/MCA/ M.Sc. /M. Tech etc. from recognized university and full-time courses.	It is requested to change the criteria as below: "Technical Resource with 7-10 years of relevant experience only and having at least one implementation and integration experiences on the proposed solution in CCTV, Surveillance /ANPR, Networking Domain. Minimum qualification for the resources should be B.E./B.Tech/MCA/ M.Sc. /M. Tech etc. from recognized university and full-time courses."	As Per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
499	62	5	Design & Implementation of IT/ ICT infrastructure projects and City-wide CCTV Surveillance System / Smart City / all with the Value of projects minimum 1 Cr. Each in last 5 financial years in India	It is requested to change the criteria as below: Design & Implementation of IT/ ICT infrastructure projects and CCTV Surveillance System / Smart City / all with the Value of projects minimum 1 Cr. Each in last 5 financial years in India	As per RFP
500	62	5	Integration of CCTV based Public Safety and Traffic Control services over minimum 150 IP cameras during last 5 financial years in India	It is requested to change the criteria as below: Integration of CCTV based Security System / Traffic Control services over minimum 150 cameras during last 5 financial years in India	As per RFP
501	62	5	Project for maintenance of fully IP based CCTV surveillance for ITMS/ Smart City/ Airport / any Ministry/ Department of GoI/ UT Government/State Government Organizations in last 5 financial years in India	It is requested to change the criteria as below: Project for maintenance of fully IP based CCTV surveillance / Smart City/ Airport / any Ministry/ Department of GoI/UT Government/ State Government Organizations in last 5 financial years in India	As per RFP
502	30	3.6.2	1/2" Progressive CMOS or better	1/2.8" Progressive CMOS or better	As per RFP
503	31	3.6.2	60dB or Better	50dB or Better	As per RFP
504	31	3.6.2	140 dB or better	130 dB or better	Amendment: Dynamic Range 130 dB or better
505	31	3.6.2	20° ~ 40° remote adjustable	15° or better	Amendment: Beam Angle is optional
506	31	3.6.2	260 meters or Better	130 meters or Better	Amendment: IR Distance - minimum 120 meter or better

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
507	31	3.6.2	Weather-proof IP68-rated housing	Weather-proof IP66-rated housing	Amendment: Weather-proof IP66-rated housing or better
508	31	3.6.2	RS485 configurable	Please Omit this point	Amendment: RS485 configurable is optional
509	31	3.6.2	4 simultaneous streams or Better	3 simultaneous streams or Better	As per RFP
510	32	3.6.2	Image Settings -LPC scene mode	Please Omit this point	Amendment: Image Settings - LPC scene mode is optional
511	32	3.6.2	Live viewing for up to 10 clients	Live viewing for up to 4 clients	Amendment: Live viewing for 5 or more clients
512	32	3.6.2	Manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection, advanced motion detection, SD card life expectancy, cybersecurity events (brute force attack event, cyberattack event, quarantine event)	Please amend Manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, advanced motion detection, SD card removal, network disconnection	Amendment: Alarm and Event – Alarm Triggers- Manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, advanced motion detection, SD card removal, network disconnection
513	33	3.6.3	f = 2.7 ~ 13.5 mm or better	f = 2.8 ~ 12 mm or better	As per RFP
514	33	3.6.3	F1.4 ~ F2.8 or better	F1.6 or better	Amendment: Aperture: F1.4 or better
515	33	3.6.3	P-iris	DC-iris / P-iris	Amendment: Auto-iris P-iris/ DC-iris
516	33	3.6.3	30° ~ 100° (Horizontal) or Better	Please Omit this point	Amendment: As Per Bidders choice to meet the requirement, at least 3 lanes should cover
517	33	3.6.3	23° ~ 72° (Vertical) or Better	Please Omit this point	As per RFP
518	33	3.6.3	38° ~ 135° (Diagonal) or Better	Please Omit this point	Amendment: As Per Bidders choice to meet the requirement

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
519	33	3.6.3	110dB or better	90 dB or better	As per RFP
520	33	3.6.3	110 dB or better	Please Omit this point	Amendment: Dynamic Range is optional
521	33	3.6.3	Adjustable resolution, quality and bit rate control, Smart Stream III	Please amend Adjustable resolution and quality	Amendment: Video Streaming Smart Stream III is optional
522	33	3.6.3	Embedded cybersecurity	Please Omit this point	Amendment: Embedded cybersecurity is optional
523	34		All the cameras, IR illuminators, Housing should be from single OEM.	Please Omit this point	Amendment: All the cameras, IR illuminators, Housing should be from single OEM. n optional
524	34	3.6.3	Built-in Microphone	Please Omit this point	Amendment: Built-in Microphone is optional
525	34	3.6.3	Live viewing for up to 10 clients	Please amend to Live viewing for up to 4 clients	As per RFP
526	34	3.6.3	Five-window video motion detection, human detection, time filter	Please amend Four-window video motion detection	Amendment: Five-window video motion detection, human detection, time filter smd optional
527	34	3.6.3	Motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection, MicroSD card life expectancy	Please amend Manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, advanced motion detection, SD card removal, network disconnection	Amendment: Audio detection, MicroSD card life expectancy is optional
528	35	3.6.4	65 dB	50 dB	Amendment: S/N Ratio 50dB or Better
529	35	3.6.4	Adjustable resolution, quality and bitrate, Smart Stream II	Adjustable resolution and quality	Amendment: Video Streaming Smart Stream II is optional
530	35	3.6.4	Live viewing for up to 10 clients	Live viewing for up to 4 clients	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
531	36	3.6.4	System power and status indicator	Please Omit this point	Amendment: LED Indicator System power and status indicator is optional
532	36	3.6.4	Max. 10 W	<13 W	As per RFP
533	36	3.6.4	CE, LVD, FCC Class A, VCCI, C-Tick	Please include BIS, CE, FCC	Amendment: Safety Certifications: BIS, CE, FCC
534	41	3.6.10	Total Cube depth should be \leq 744 mm	Total Cube depth should be \leq 470 mm	Amendment: Total Cube depth should be \leq 470 mm
535	82	6.14	Whole IPR Clause Statement	Only SDK and API should be provided by software OEM to the End user for any integration purpose.	Please refer respective response(s) on same subject
536	10	1	As a pilot project, the IEMS project will be implemented in around 100 KM stretch on NH16 between Panikoili & Rameswar wherein the ANPR Cameras will be installed and commissioned to detect vehicles for Over Speeding, Triple Riding, Wrong Lane movement, without Helmet, Rash Driving etc. and slapping appropriate fines as per Motor Vehicle (MV)Act and Rules.	Will the scope of Analytical capabilities/Dashboards/Reporting would change while project execution	Will be considered at later stage

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
537	10	1	The Vehicle Registration numbers fed into e-challan system will search for owner details like Mobile No., Address in Vahan 4.0 database and based on available data and offence committed, SMS and E Mail will be triggered to Owner of the vehicle along with Fine Details (as per traffic rules & regulations). Snail mail will also be sent to registered address mentioned in the Vehicle Registration Details in V4.0, if required.	Access and authorization for Vahan 4.0/Sarathi 4.0. Location of Database to process this information. Cloud (NIC Hosted)/Silo Systems	Office of the Transport Commissioner will provide
538	10	1	The Vehicle Registration numbers fed into e-challan system will search for owner details like Mobile No., Address in Vahan 4.0 database and based on available data and offence committed, SMS and E Mail will be triggered to Owner of the vehicle along with Fine Details (as per traffic rules & regulations). Snail mail will also be sent to registered address mentioned in the Vehicle Registration Details in V4.0, if required.	is there be any payments/fees associated with Vahan 4.0 database access and if yes will it be part of BOQ	Office of the Transport Commissioner will provide

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
539	58	5	The Lead bidder and all the consortium partners (in case of Consortium) should be registered under the Companies Act, 1956 and in existence for at least 5 years (as on 31st March 2015) should be in related field	How much experience should be as on 31 March 2021	Amendment: The Lead bidder and all the consortium partners (in case of Consortium) should be registered under the Companies Act, 1956 and in existence for at least 5 years (as on 31st March 2020) should be in related field
540	58	5	The bidder/ Lead Partner of consortium (in case of Consortium) is required to have minimum cumulative Annual Turnover of Rs. 40.00 Crores in aggregate for the last 3 financial years i.e. 2017-18, FY 2018-19 & FY 2019-20 and should have minimum turnover of Rs.15 Cr in last financial year (2019-20).	In case of 3-member consortium, how much share/split of turnover should be acceptable.	As per RFP
541	59	5	Local Presence	Is Lead bidder required to be from Orissa only	As per RFP
542	27	3	Segmental speed between two gantries	Is it based on time to cross two gantries, or speed segmentation	Request to please refer the RFP, FRS, Solution Envisaged, SOW etc.

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
543	61	5	Bidders are also requested to please make sure that all documents are posted in Pre-Qualification Folder only. They shall also ensure that each file size of their submitted documents should not exceed 20MB [e.g. if all the supporting documents for Pre-Qualification be 75 MB (Master Copy), then the master copy be split into 4 files of sizes 20 MB + 20 MB + 20 MB + 15 MB]	When do we need to send documents for Pre-Qualification Bid and what all documents	Mentioned in RFP
544	12	1	OTC Managed/OTC Responsibility	More clarification and Scope definition required for OTC managed and OTC responsibility	Office of the Transport Commissioner
545	53	4	The successful bidder's Bid security will be released upon the bidder signing the Contract Agreement, and they should furnish the Performance Bank Guarantee (PBG) Security of 10 % of the contract value and validity till closure of the project. The validity of the PBG will get extended if the project is not completed and 3 months after project closure.	Will the EMD be adjusted in case of contract assigned against the PBG security of 10%	Not Considered

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
546	61	5.7	<p>A. Company Competence-Marking Criteria:</p> <ul style="list-style-type: none"> · 3 Years – 3 Marks · 5 Years – 5 Marks · 7 Years – 7 Marks · 10 Years – 10Marks <p>Additional 2 marks for bidder (Prime bidder, in case of Consortium) if they have R&D Facility, at least 2 Patents filed in CCTV, Surveillance system. Subject to maximum up to 7 years of relevant experience.</p>	<p>Marking Criteria:</p> <ul style="list-style-type: none"> · 3-4 Years – 5 Marks · 5-7 Years – 7 Marks · 8-10 Years – 10 Marks <p>Additional 2 marks for bidder (Prime bidder, in case of Consortium) if they have R&D Facility in CCTV, Surveillance system. Subject to maximum up to 7 years of relevant experience.</p>	Please refer respective response(s) on same subject
547	62	5.7	<p>B. Relevant Project Experience Domain Experience-Parameters:</p> <p>Integration of CCTV based Public Safety and Traffic Control services over minimum 150 IP cameras during last 5 financial years in India</p>	<p>Integration of CCTV based Public Safety and/or Traffic Control services over minimum 150 IP cameras during last 5 financial years in India</p>	As Per RFP
548	62	5.7	<p>B. Relevant Project Experience Maintenance Experience- Parameters:</p> <p>Project for maintenance of fully IP based CCTV surveillance for ITMS/ Smart City/ Airport / any Ministry/ Department of GoI/ UT Government/State Government Organizations in last 5 financial years in India</p>	<p>Project for maintenance of fully IP based CCTV surveillance for ITMS/ Smart City/ Airport / any Ministry/ Department of GoI/ UT Government/State Government Organizations/ Government Undertaking Organizations in last 5 financial years in India.</p>	As Per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
549	16	1.3.2	To provide the raw power with required sockets, network connectivity, any required clearance from respective departments etc.	As per RFP network connectivity is in scope of STA. Kindly clarify.	As per RFP

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			<p>6.14 Patent / Intellectual Property Rights (IPR) / Copy Rights During the Operation phase, the responsibility to maintain the IPR of the Application(s) provided by the selected SI would lie with the selected SI and the SI will transfer the IPR to Office of the Transport Commissioner during the Transfer stage and after the association with Office of Transport Commissioner ends after 5 years or intermediary due to unavoidable circumstance like poor delivery, no progress show stopper etc. If there is transfer of IPR for the application from Office of Transport Commissioner to any other firm/corporate/PSUs/Govt. Departments, the same can be transferred after mutual discussion.</p> <p>Following conditions will also apply:</p> <ul style="list-style-type: none"> v Ownership and Title: Title to the minor enhancements, point updates and documentation, including ownership rights to patents, copyrights, trademarks and trade secrets therein shall be the exclusive property of Office of Transport Commissioner. v Confidentiality: The Bidder hereby acknowledges that the minor enhancements, point updates, and documentation may contain information that may be trade secret and proprietary to the Office of Transport Commissioner. 		

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
551	53	4.1	All bidders shall furnish, as part of its Pre-Qualification Bid, an Earnest Money Deposit / Bid Security amounting to Rs.35, 00,000 (Thirty-five Lakh only). Bids without this bid security/EMD will be rejected	We are the eligible and prospective bidder but due to present pandemic situation it is very tough for small scale enterprises like us to invest Rs.3500000.00 for so many days. We request you to reduce EMD to Rs.1500000.00	Please refer respective response (s) on same subject
552	74-75	Payment Term	B. Civil & Cabling products (Field)	We request you to provide 50% mobilization advance for the Civil Work.	Not Considered
553	74-75	Payment Term	40% of cost of Equipment's including Hardware & Accessories including Warranty support charge as per format provided.	60% of cost of Equipment's including Hardware & Accessories including Warranty support charge as per format provided.	Please refer respective response(s) on Payment Terms
554	77-78	Insurance Requirement	The Selected Bidder shall take necessary insurance against loss, damage, theft, pilferage, fire, accident and damages during transit and installation from stores to site for all the materials/good either belonging to him or issued to him by Office of Transport Commissioner for execution of work.	Please inform department will provide secured space for storage to keep all the materials/good either belonging to selected bidder or department	As per RFP
555	15	Office of Transport Commissioner	To provide the raw power with required sockets, network connectivity, any required clearance from respective departments etc	We request department to provide the stable raw power with required sockets, network connectivity, any required clearance from respective departments etc before mobilization of the work at all sites.	Office of the Transport Commissioner will provide required clearances keeping the SI's project plan into consideration.

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556	92	SLA during Implementation Period	Penalty Value	What in case of Delay in Execution of Work /Deliverables due to non-availability of raw power with required sockets, network connectivity, from the department	In case of any delay which doesn't pertain to the SI, penalty will not be imposed. The discretion will be with STA
557	78	Force Majeure	For purposes of this clause, "Force Majeure" means an event beyond the control of the SI and not involving the SI's direct fault or negligence, and not foreseeable. Such events may include, but are not restricted to, acts of the Office of Transport Commissioner in its sovereign capacity, wars or revolutions, fires, natural disasters, terrorism, declarations of governments, epidemics, quarantine restrictions and freight embargoes.	We request you to add following points in force Majeure Any Accidental Damage, Manual Sabotage and Theft	As per RFP
558	30	3.6.1	Mother board supports i5/i7 with CPU cooler	As per your RFP specification required Processor is Intel Core i7. Whereas you have asked Mother board support i5 / i7	Amendment: Mother board supports i7 with CPU cooler
559	30	3.6.1	4 GB DDR3 RAM	For better performance we request you to please convert the same with 8 GB RAM in support for i7 Processor & upgrade TO DDR4	Amendment: 8 GB DDR4 RAM
560	30	3.6.2	1/2" Progressive CMOS or better	Most of the Camera OEM use either 1/2.8" or 1/3" Image Sensor globally.	As per RFP
561	31	3.6.2	60dB or Better	Most of the Camera OEM having S/N Ratio is 50 db. or better globally.	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
562	31	3.6.2	140 dB or better	Most of the Camera OEM having Dynamic range is 120 db. or better globally.	Amendment: Dynamic Range 130 dB or better
563	31	3.6.2	20° ~ 40° remote adjustable	This feature varies OEM to OEM and its performance completely depends on proposed solutions.	Amendment: Beam Angle is optional
564	31	3.6.2	260 meters or Better	As per RFP your requirements Capture Range for ANPR camera is 35 Mtrs. Or better. True IR Illumination will be available if we used 120 Mtrs. Or better IR Illuminator.	Amendment: IR Distance - minimum 120 meter or better
565	31	3.6.2	Weather-proof IP68-rated housing	we have not understood the requirements of IP68 housing because it require for underwater camera. As per our understanding IP66 is sufficient for this solution which is completely dust proof and any direction Jet water protection	Amendment: Weather-proof IP66-rated housing or better
566	31	3.6.2	RS485 configurable	This feature will not affect much on the proposed solution. Many OEMs may not be able to comply against this point.	Amendment: RS485 configurable is optional
567	31	3.6.2	4 simultaneous streams or Better	Most of the Global OEMS' cameras produce 3 simultaneous streams.	As per RFP
568	32	3.6.2	Image Settings -LPC scene mode	We have understood that LPC scene mode is mainly a software feature. We will comply the same IEMS software.	Amendment: Image Settings - LPC scene mode is optional

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
569	32	3.6.2	Live viewing for up to 10 clients	Most of the Global OEMS' cameras Support Live viewing for up to 5 clients.	Amendment: Live viewing for 5 or more clients
570	32	3.6.2	Manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection, advanced motion detection, SD card life expectancy, cybersecurity events (brute force attack event, cyberattack event, quarantine event)	Few Features may not be feasible for this solution. Like Audio detection is basically used for Artificial Intelligence system and mostly used in Indoor installation. SD card life expectancy is required to detect a SD card's Lifespan after 10 years and this project does not have any SD card Option.	Amendment: Alarm and Event – Alarm Triggers- Manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, advanced motion detection, SD card removal, network disconnection
571	33	3.6.3	f = 2.7 ~ 13.5 mm or better	Most of the Global Camera OEMs use Focal length f = 2.8 ~ 12 mm.	As per RFP
572	33	3.6.3	F1.4 ~ F2.8 or better	F1.4 is better than F2.8. So, suggested to use Aperture F1.4	Amendment: Aperture: F1.4 or better
573	33	3.6.3	P-iris	Most of the global camera OEM use Auto Iris lenses (either DC iris Technology or P- Iris technology)	Amendment: Auto-iris P-iris/ DC-iris
574	33	3.6.3	30° ~ 100° (Horizontal) or Better	The field of view of a Camera depends on its Image Sensor size and Focal Length. It varies OEM to OEM.	Amendment: As Per bidder's choice to meet the requirement, at least 3 lanes should cover.
575	33	3.6.3	23° ~ 72° (Vertical) or Better	The field of view of a Camera depends on its Image Sensor size and Focal Length. It varies OEM to OEM.	Amendment: As Per Bidders choice to meet the requirement
576	33	3.6.3	38° ~ 135° (Diagonal) or Better	The field of view of a Camera depends on its Image Sensor size and Focal Length. It varies OEM to OEM.	Amendment: As Per Bidders choice to meet the requirement

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
577	33	3.6.3	110dB or better	Most Of the Global Bullet Camera OEM having WDR 100 dB or better.	As per RFP
578	33	3.6.3	110 dB or better	Repeat of SI No 9 of Overview Bullet Network Camera.	As per RFP
579	33	3.6.3	Adjustable resolution, quality and bit rate control, Smart Stream III	Smart Stream III is not e generic term.	Amendment: Video Streaming Smart Stream III is optional
580	33	3.6.3	Embedded cybersecurity	As cyber security in edge devices are useless. It is needed in the N/W active components, such as Switches, Routers etc.	Amendment: Embedded cyber security is optional
581	34		All the cameras, IR illuminators, Housing should be from single OEM.	For Better performance and cost-effective solution bidder may introduce multiple OEM products	Please refer respective response(s) on same subject
582	34	3.6.3	Built-in Microphone	As per the RFP and our understanding this camera will take an over view image from the top of the Gantry (Approx. 7 Mtrs Height). Audio feature will not work under this circumstance.	Amendment: Built-in Microphone is optional
583	34	3.6.3	Live viewing for up to 10 clients	Most of the Global OEMS' cameras Support Live viewing for up to 5 clients.	As per RFP
584	34	3.6.3	Five-window video motion detection, human detection, time filter	As per the RFP and our understanding this camera will take an over view image of the high way from the top of the Gantry. This is an analytic feature where motion happened eventually / occasionally.	Amendment: Five-window video motion detection, human detection, time filter is optional

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
585	34	3.6.3	Motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection, MicroSD card life expectancy	Few Features may not be feasible for this solution. Like Audio detection is basically used for Artificial Intelligence system and mostly used in Indoor installation. SD card life expectancy is required to detect a SD card's Lifespan after 10 years and this project does not have any SD card Option.	Amendment: Audio detection, MicroSD card life expectancy is optional
586	35	3.6.4	65 dB	Most of the Camera OEM having S/N Ration is 50 db. or better globally.	Amendment: S/N Ratio 50dB or Better
587	35	3.6.4	Adjustable resolution, quality and bitrate, Smart Stream II	Smart Stream II is not e generic term.	Amendment: Video Streaming Smart Stream II is optional
588	35	3.6.4	System power and status indicator	This is not Generic features.	Amendment: System power and status indicator is optional
589	36	3.6.4	Max. 10 W	All the Cameras should be POE (IEEE 802.3af) . That means power consumption should be 15 watt or less	As per RFP
590	36	3.6.4	CE, LVD, FCC Class A, VCCI, C-Tick	All the required certificates are not generic for all Global OEMs except CE & FCC	Amendment: Safety Certifications: BIS, CE, FCC
591	38	3.6.7	8 GB GDDR5, Memory Interface 128-bit, dual channel expandable up to 64 GB with minimum 4 DIMM slots		Amendment: 2 GB GDDR5, Memory Interface 128-bit
592	38	3.6.7		RAM is not mentioned in RFP	Amendment: RAM 16 GB DDR4 RAM expandable up to 64 GB

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
593	39	3.6.8		RAM is not mentioned in RFP	Amendment: RAM 16 GB DDR4 RAM expandable up to 64 GB
594	41	3.6.10	Total Cube depth should be \leq 744 mm	Total Cube depth should be \leq 470 mm as mentioned in point No - 20 of 2X2 -50" LASER Full HD Video Wall and Controller.	Amendment: Total Cube depth should be \leq 470 mm
595	82	6.14	Whole IPR Clause Statement	Software Developer will not provide any Patent / Intellectual Property Rights (IPR) / Copy Rights to the selected System Integrator (SI). They will only provide SDK and API to the customer for any integration purpose in future. Kindly remove all the parameters against 6.14. Please Add - SDK and API should be provided by software developer to the customer for any integration purpose in future.	Please refer respective response(s) on same subject

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
596	59		Additional Submission for Clause - We request to add DIPP and DoT PMA Policy guidelines on the tender.	"We request you to incorporate suitable clause in the tender implementing DIPP PMA guidelines on the tender. This implementation of Gazette Notifications on Preferential Market Access Policy are as per a. Department of Industrial Policy & Promotion (DIPP) Order No. P-45021/2/2017-BE-II dated 04.06.2020" b. GFR amendment OM dated 23rd July 2020 c. DoT notification No. 18-10/2017-IP dated 29th Aug 2018	Not Considered
597	37		Switch shall support persistent PoE power and shall allow the PD's to retain power in case the switch undergoes a reboot helping PoE Devices with built in storage to continue operation and sync up on network availability. The switch No PoE load power consumption should be less than 10W	As access location generally have surges in input power. This ensures surveillance cameras remain powered ON even in case of switch reboot due to input power. Suppose any incident happens and switch takes a reboot, In absence of this feature, live recording of the event will not happen as cameras will be powered off. We request to include the clause.	As per RFP

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598	24		8 Port Industrial switch 2 x 1000 BaseX SFP Uplink ports	We request to amend the requirement as "8 Port Industrial switch 4 x 1000 BaseX SFP Uplink ports". In terms of project expansion, having only 2 uplink ports creates a bottleneck. We request to consider 4 uplink ports. This will also enable to plan redundancy in the uplinks if required improving the network resiliency.	As per RFP
599	37		L2 Managed Industrial Switch with 8x10/100/1000 Base-T PoE+ ports and additional 2x1G Base-X ports accommodate SM/MM FO Module.	We request to amend the requirement as "8x10/100/1000 Base-T PoE+ ports and additional 2x1G Base-X ports accommodate SM/MM FO Module". In terms of project expansion, having only 2 uplink ports creates a bottleneck. We request to consider 4 uplink ports. This will also enable to plan redundancy in the uplinks if required improving the network resiliency.	As per RFP
600	36	3.6	Video Compression-H.264 & MJPEG	Request you to amend Video Compression H.265,H.264 & MJPEG . Employing H.265 compression enables cameras to provide higher and more efficient image compression rates than H.264 systems while maintaining the high image quality and it also help to reduce bandwidth & Storage.	As Per RFP

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601	36	3.6	Maximum Streams-4 simultaneous streams or better	Request you to allow maximum 3 simultaneous streams or better . It will not impact on functional requirements of the systems.	Amendment: 3 simultaneous streams or Better
602	33	3.6.2.	Safety Certifications IP Camera : CE, FCC, UL (All Three Mandatory)	<ul style="list-style-type: none"> • UL, LVD, VCCI and C-Tick are foreign certifications. 	Amendment: Safety Certifications: BIS, CE, FCC
603	35	3.6.3.	Safety Certifications IP Camera : CE, FCC, UL (All Three Mandatory)	<ul style="list-style-type: none"> • BIS is an Indian equivalent 	Amendment: Safety Certifications: BIS, CE, FCC

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
604	37	3.6.4.	34. Safety Certifications CE, LVD, FCC Class A, VCCI, C-Tick	<p>certificate to UL and is covered as mandatory certification for CCTV cameras as per CRO.</p> <ul style="list-style-type: none"> Ministry of Finance had issued an Office Memorandum dated 12th May 2020 which emphasizing the mandatory use of Indian Standards in Technical Specifications. <p>".....wherever Indian Technical specifications and Quality Certifications exist, the procuring entity should prescribe them"</p> <ul style="list-style-type: none"> Asking mandatory foreign certifications like UL, LVD, VCCI and C-Tick is a restrictive clause for Indian OEMs as per the clause no "10. Specifications in Tenders clause e" on page no 7 of DPIIT Public Procurement (preference to Make-in -India) order 2017 dated 16th September, 2020. <p>"Specific Foreign Certifications/unreasonable technical specifications /brands/models in the bid document is restrictive and discriminatory practice against local suppliers"</p> <p>Requesting you to amend the certification as: CE, FCC and UL/BIS</p>	Amendment: Safety Certifications: BIS, CE, FCC

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
605	33	3.6.2.	Make / Brand: Any globally reputed Manufacturer presence in India for last 5 Years.	It is a restrictive clause for domestic manufacturer that only global OEM is asked to participate in the tender and against the DPIIT Public Procurement (preference to Make-in -India) order 2017 dated 16th September, 2020.	As per RFP
606	35	3.6.3.	39. Make / Brand: Any globally reputed Manufacturer presence in India for last 5 Years.	"Specific Foreign Certifications/unreasonable technical specifications /brands/models in the bid document is restrictive and discriminatory practice against local suppliers" Requesting you to incorporate the DPIIT Public Procurement (preference to Make-in -India) order 2017 dated 16th September, 2020 in the tender and allow Indian OEM to participate in the tender.	As per RFP
607	32	3.6.2. ANPR Cameras and Housing	Beam Angle 20° ~ 40° remote adjustable	It is an OEM specific feature and most of the OEM have fixed beam angle. So, requesting you to make the fixed beam angle. Requesting you to remove remote adjustable feature. Beam Angle should be suitable as per ANPR application	Amendment: Beam Angle is optional

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
608	32	3.6.2. ANPR Cameras and Housing	Weather-proof IP68-rated housing	<ul style="list-style-type: none"> • IP66 Enclosure - IP rated as "dust tight" and protected against heavy seas or powerful jets of water. • IP 68 Enclosures - IP rated as "dust tight" and protected against immersion in water(1 meter (3 ft 3 in) or more depth). • Please share the need of IP68 as cameras will be deployed on Poles and thus at a sufficient height where they don't have an application of being 'immersed in water'. <p>Requesting you to amend the Clause as : IP66 rated</p>	Amendment: Weather-proof IP66-rated housing or better
609	33	3.6.2.	Certifications IEC 62471, EN 50130-4, CE: EN61000-6-3, EN60598-1, EN60598-2-5, FCC Class A, EN60529	<p>Asked standard are foreign standard and specific to foreign OEM basically it is covered under the CE & FCC Certificate.</p> <p><u>Requesting you to accept</u> CE & FCC Certificate.</p>	As per RFP
610	35	3.6.3. Overview Bullet Network Camera	29. Smart Motion Detection: Five-window video motion detection	Five Motion Detection is Specific to OEM and most of the OEM have four motion detection and it also fulfill the requirement.	Amendment: Five-window video motion detection, human detection, time filter is optional
611	36	3.6.4.	26 Intelligent Video Motion Detection: Five-window video motion detection	Requesting you to accept the four-windows motion detection	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
612			Other Suggestions	Requesting you to incorporate DPIIT Public Procurement (preference to Make-in -India) order 2017 , Revision Order No P-45021/2/2017-PP (BE-II).dated 16th September, 2020 issued by Public Procurement Section, Department of Promotion of Industry and Internal Trade, Ministry of Commerce and Industry to give preference to Class-I Local Supplier.	As per RFP
613		Built in AVR - UPS		Please change the clause as Automatic voltage regulator is not required here.	As per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
614	20		<p>Radar based solar powered speed detection system is to be installed in between every two gantry locations to enhance the speed violation detection capabilities and reduce road fatalities. The VMS shall be installed near by the gantry locations, two in the entry & exit point of the stretch and another two in between the stretch. All shall be nearby the gantry locations; the SI is to draw the raw power from the gantry location itself. Similarly, the overview cameras 2 each shall be installed in 4 number of locations based on decision from Office of Transport Commissioner. The Feed will be displayed in the Video Wall separately or combined as and when required. Another two number each overview cameras each shall be installed in three numbers of bordering locations police station. The feed will be displayed in the computer monitor either directly or vide software client. Various alerts shall be displayed in the computer screen for quick reaction/ appropriate action.</p>	<p>Is the fully system solar powered only? For solar what is min back up time in case of rainy days, (number of days of autonomy required?), where solar panel will be mounted? It is assumed there is no Mains power connection to these sites. What is the purpose of overview camera mentioned here? Please clarify. These are to be mounted on gantry?</p>	<p>Radar based speed detection system will be fully solar powered. Min backup time is 12 hrs. Panel will be mounted at the top of the radar based speed detection pole. No Main/Raw power is available for Radar based solar powered speed detection system Request to check the published RFP for Overview camera usage Overview camera's will be mounted at the gantry</p>

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
615	26	3A	The system should be video/ radar-based speed violation detection system to be used for speed detection.	Video Analytics system – Not accepted worldwide. Prone to error. Speed error unto $\pm 20\%$. Also, max speed less than 140 KMPH, while min 200KMPH min required with new generation cars on highways. A 140KMPH speed limited system will be a failure and loss of public funds. (it means a car moving at 150 KMPH can escape the system this will have a negative impact.	As Per RFP
616	26	3B	The offered system should be able to detect vehicle registration plates along with speed violation detection for vehicles having speed even more than 140 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 ± 3 KMPH. The system should generate an automatic alert in case of a speed violation and generate unique case number for each violation detected.	Min Speed limit should be 240kmph. Video analytics have a limitation of 140kmph. More than that speed error rate is higher. So, 3D/4D Doppler radar is a must. Else system will not capture true over speeding vehicles & system will be a total failure.	As per RFP
617	25	2D	The system should capture HSRP & standard vehicle's number plates with an accuracy of at least 95 % across the day (without white strobe light) 24x7.	For standard plates night accuracy not mentioned. (should be also 95%) For nonstandard plate accuracy not mentioned: min ANPR accuracy > 85% day & night.	As per RFP Please refer respective response(s) also.

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618	30	3.6.2	ANPR CAMERA, HOUSING & Overview Bullet Network Camera	High performance Global shutter camera should be used : to meet high speed capture up to 240KMPH, no motion blur, day & night image quality to identify vehicle etc. (what is mentioned is a general-purpose camera). The spec should be such that the ANPR camera should meet the performance requirement & minimum 2 mega pixel	As per RFP
619	30	3.6.3	ANPR CAMERA, HOUSING & Overview Bullet Network Camera	vehicle detection rate of minimum 95% in free traffic flow for all vehicles required. - not mentioned anywhere. and should capture high quality vehicle images in day & night up to 240KMPH without any motion blur (for police crime analysis)	Already mentioned in published RFP
620	30	3.6.3	ANPR CAMERA, HOUSING & Overview Bullet Network Camera	Wide angle court evidence camera not mentioned?	As per RFP
621	31		IR illuminator specification: Beam Angle 20° ~ 40° remote adjustable	IR illuminator should match to ANPR camera FOV	Amendment: Beam Angle is optional
622	31		IR Distance 260 meters or Better	capture range typically less than 25 meters	Amendment: IR Distance - minimum 120 meter or better
623	30	3.6.1	Local Processing Unit (LPU) - Motherboard supports i5 / i7 with CPU Cooler	LPU should be able to mention any standard one like NVIDIA/ Intel/ AMD based boards.	Intel Base already mentioned in the published RFP
624	25	2A	The System should automatically detect a vehicle in the camera view using video detection and activate Registration plate recognition.	Point to be changed. Detection using Doppler radar system.	As Per RFP

Sl. No	RFP Page No.	Section in RFP	RFP Statement requiring clarification/ Change	Proposed Clarifications / Amendments by Bidders	Responses cum Amendments
625	26	3C	The technology should have been certified/tested by a reputed Indian test laboratory or institute under central government. Such certificate/test report should be submitted along with PQ bid.	Should be changed to as OR International speed calibration certificate from an approved metrological LAB for speed measurement. (as 3D radars are not manufactured in India)	As per RFP
626	28	8M	Vulnerability Assessment and Penetration Testing (VAPT) audit for the ITMS software is a must requirement, and the application has to follow the OWASP guidelines.	Such points should be made generic to attract more competitive bid	As per RFP
627	29	8M	Certificate for the VAPT audit report in the name of software OEM need to be submitted.	Such points should be made generic to attract more competitive bid	As per RFP
628	28	8G	The Software OEM must satisfactory running certificate for roadside installation from any Government Department.	Such points should be made generic to attract more competitive bid	As per RFP
629	28	8D	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	To be changed as Server software may run on Linux/Windows.	As per RFP

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630	18	3.1	The STA authority already have some mobile speed detection system in place & may procure some vehicles too in future, the selected SI need to integrate those vehicles and systems in the new environment without any preconditions for ease & single point of operation. It is also to be noted that, the challan generation will be same also after integration	suitable API should be provided	Office of the Transport Commissioner will provide the required APIs during implementation.
631	23	3.4	Bill Of Material -A. Gantry Mounted Products (Field)	Can we assume 4 lanes as (2+2) & 6 lanes as (3+3) roads? In that case (2+2) number of systems required = 6 In that case (3+3) number of systems required = 42 If our assumption is correct, total = 42+6 =48 systems.	Understanding is correct as per requirements. Confirmed
632	23	3.4	Bill Of Material -A. Gantry Mounted Products (Field)	SI No: 2, As per standard design, Overview camera = Evidence camera. That is required 1 per road. So total Evidence camera required = 48 Or overview camera for different purpose?	As per RFP
633	23	3.4	Bill Of Material -A. Gantry Mounted Products (Field)	SI No:8, In BOM, Junction Box is mentioned as 24 instead of 48	Single junction box to be used for both side gantry
634	23	3.4	Bill Of Material -A. Gantry Mounted Products (Field)	SI No:9, In BOM, Radar Based Speed detection system = 40 instead of 48	As per RFP

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635	24	3.4	Bill Of Material -B. Civil & Cabling products (Field)	Sl No: 2- Only after defining the purpose of Overview camera, quantity can be fixed. As per standard design, it's required 1 per road. But the given quantity will not serve the purpose. Please clarify	As per RFP
636	24	3.4	Bill Of Material- C. Centralized Software Products	Only 3 Workstations are mentioned in quantity. Server system with RAID is recommended for handling such a big project. Also, redundancy server to be considered.	Request to please refer the solution overview in the published RFP. The central software will be hosted in the OSDC
637	24	3.4	Bill Of Material- D. Command Control Room Products	Storage is not mentioned here. Backup capacity also not mentioned. Please clarify.	Request to please refer the solution overview in the published RFP. The central software will be hosted in the OSDC
638	24	3.4	Bill Of Material- D. Command Control Room Products	Firewall not mentioned , which is essential to neutralize external threats when using internet connectivity	Request to please refer the solution overview in the published RFP. The central software will be hosted in the OSDC
639	24	3.4	Bill Of Material- D. Command Control Room Products	Switch & UPS not mentioned for Command & Control Room. Please clarify.	Office of the Transport Commissioner will provide when required
640	24	3.4	Bill Of Material-E. License for field equipment's connectivity & Integration, Training	Please specify the exact requirement	As per RFP

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641	27-28	6 & 7	No Helmet Detection System & Triple Ride Detection	Day & Night operation is assumed , front or rear capture preferred?, for 2-wheeler front capture ANPR accuracy will be limited due to very small plates	As per RFP
642	27-28	6 & 7	No Helmet Detection System & Triple Ride Detection	Is AI detection to be done on the same set of cameras for Over speed violation? In that case only speed violated vehicle to be processed for AI based violations. Or all the vehicle needs to be processed?	AI detection to be done by the ANPR camera with the help of central software to meet the RFP FRS criteria
643	13		All the camera nodes will be connected through Optical Fiber Connectivity (OFC) and the system should be such that in course of temporary failure of network, the data shall be stored in the local device & as and when the network is restored, the data shall be synced to the server.	Is Field Optical Fiber connectivity available all over the 100 stretch? If not, should bidder quote for that also?	Office of the Transport Commissioner will provide when required
644	44		3.6.14. Radar Based Speed Display System, Height : 11 Inches, Display : 7 Segment	what is purpose of this display, is its separate system, BOM does not specify same	Please refer respective response(s) also.
645	119		cable requirement	cable length etc. will depend on type of product & should be removed from BOQ	As per RFP

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646			Request to Add	For every violation one lane image of vehicle & 2 wide angle evidence image (for court room evidence that vehicle was on the road at the time of violation) should be captured . Wide angle camera should cover surroundings of the road also),. The two wide angle images should be automatically captured with violating vehicle at 2-time instances during transit. this is a widely accepted standard.	Minimum BoM remains same, bidder may offer additional items as per their proposed solution Please refer respective response(s) also.
647			Request to Add	Along with number plate, high quality image of vehicle, also to be captured at Day and Night conditions for all vehicles. The vehicle image should have sufficient quality to identify make, model and marking etc on vehicle for crime analysis purpose.	Not Considered
648			Request to Add	System should support & enforce both Spot speed and Average speed, ANPR camera captures vehicle image / vehicle registration number, based on trigger from Radar sensor with time stamp and speed information. Accurate time stamp synchronized with GPS or NTP servers required for Average speed enforcement between two ANPR cameras.	Not Considered

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649			Request to Add	Roadside Embedded hardware, network switch etc. Local storage with 256GB or more storage site. All industrial grade hardware should be provided.	Not Considered
650			Request to Add	remote health monitoring should be part of system.	Already mentioned in published RFP
651			Request to Add	The deep learning based ANPR system should improve the number plate detection for up to 95 percent for all vehicles with standard number plates during the day and night time (with proper illumination / provision of IR light). Min 80% for all humanly readable nonstandard plates day or night.(limitations apply to nonstandard / hidden plates for 2 wheelers for front capture)	Not Considered
652			Request to Add	IR flash is missing in BOM. It is necessary for capturing high quality images at night without depending on the presence of ambient light. Infrared flash for image capture at night, synchronized flash with global shutter of camera. Flash power sufficient to capture vehicle images also at night (not only the License Plate).This is a very important feature for crime analysis.	Request to please refer ANPR camera with IR & Housing

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653			Request to Add	High vehicle detection rate: greater than 95% of all vehicles captured under all conditions, irrespective of number plate quality, in free flow traffic conditions.	Already mentioned in published RFP
654			Request to Add	High vehicle classification accuracy: greater than 90% of all vehicles captured during day & night. Minimum 4 classification to be done.	Not Considered
655			Request to Add	Violating vehicle should be clearly marked on the image, to avoid any confusion with other vehicles nearby.	Already mentioned in published RFP
656	58		5.6 Pre-Qualifications Evaluation :	Pre-Qualification Criteria.	Sl.# 14 to be added : Criteria: IPR Clause Acceptance; Evidence Requirements: Letter from OEM ; Documentary Requirements : OEM Letterhead stating the points / clauses along with the Tender Ref. No

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657	82		6.14 Patent / Intellectual Property Rights (IPR) / Copy Rights		<p>The Lead Bidder/System Integrator must submit the below from the ITMS software OEM letterhead along PQ submitted documents</p> <p>1. The system integrator (SI) have to share the API/SDK of the solution getting implemented using which any future integration with any IP system can be achieved. The ITMS software OEM must submit a declaration of scalability. There should not be any technical hindrance to add any number of IP camera, ANPR camera, Speed detection camera, overview camera, LPU without any additional cost other than the licenses as required. Customer may take one or any number licenses based on the requirement at any time in future. There should not be any minimum or maximum limit of software license.</p> <p>2. There should not be any dependency on the OEM/ SI, in case the client (STA)</p>

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658	30		3.6.2. ANPR Cameras and Housing		Amendment: Maximum Resolution 1920x1080 (2MP) or better should be read as Resolution 1920x1080 (2MP) or better
659	33		3.6.3. Overview Bullet Network Camera		Amendment: Maximum Resolution 2560x1920 (5MP) or better should be read as Resolution 2560x1920 (5MP) or better