

**Corrigendum I
of
Request for proposal for
Selection of Implementation Agency for SITC, Operation, and Maintenance of
Surveillance System in Ahmedabad City Safe and Secure Ahmedabad (SASA II) (RFP No:
SCADL_RFP_25-26_04)**



Issued By:

**Smart City Ahmedabad Development Limited
(SCADL)**

Date: 12th March 2026

Corrigendum 1 for the RFP for Selection of Implementation Agency for SITC, Operation, and Maintenance of Surveillance System in Ahmedabad City SASA II

Corrigendum 1

Smart City Ahmedabad Development Limited hereby issues this Corrigendum 1 as an integral part of the above-mentioned Request for Proposal. This Corrigendum shall be read together with the Original RFP and the Pre-Bid Clarifications. In the event of any inconsistency between the provisions of the RFP and this Corrigendum, the provisions contained in this Corrigendum shall prevail for the sections that are specifically amended herein.

All clauses, conditions and requirements that are not expressly modified or replaced through this Corrigendum shall continue to remain unchanged and shall apply as stated in the Original RFP.

This Corrigendum shall be the part of the RFP documents. All items specified in this Corrigendum supersede relevant items to that effect as provided in the original RFP documents. All other specifications, terms and conditions of the original RFP document shall remain unchanged.

This document is response to queries received during and post the Pre-Bid Meeting stage and considered important in the context of the RFP process. SCADL/AMC has endeavored to respond all queries received during pre-bid.

For any unanswered queries, the provisions of the RFP remain unchanged.

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1. Response to Pre-Bid Queries

Sr. No.	Clause	Page No	Content of RFP requiring Clarification	Clarification Sought	Response
1	6.1 Eligibility Pre-Qualification Criteria	18	The sole bidder or the lead bidder & consortium partner (in case of consortium) should be in operation in India for a period of minimum 5 years as on RFP release date.	Kindly clarify if Consortium Partner is a wholly owned subsidiary and/or Affiliate of a foreign entity in operation in India for minimum 5 years, would it qualify?	Please refer to revised clause in chapter 4 of Corrigendum 1 document
2	6.1 Eligibility PQ, Bidder's Experience _3	18	Experience of Bidder_3 Sole Bidder or any member should have demonstrable experience of SITC of at least one video analytics project with COTS e-Challan application. RLVD & ANPR mandatory + min. 50% of listed use cases.	Request to amend the clause to reduce mandatory use cases from 50% to 5 use cases and allow any consortium member (not just lead bidder) for experience qualification.	Please refer to the revised clause in chapter 4 of Corrigendum 1 document
3	6.1 PQ, Clarification	18	Documentary evidence requirements for PQ 5/6/7.	Request to clarify acceptable documentary evidence for PQ criteria points 5, 6, and 7.	Please refer to the revised clause in chapter 4 of Corrigendum 1 document
4	6.1 PQ, Bidder's Experience _1	18	Bidder's Experience_1 definition of "completed project."	Request to amend "completed project" definition to include projects completed in last 7 years from RFP date.	Please refer to the revised clause in chapter 4 of Corrigendum 1 document
5	6.1 PQ, Bidder's Experience _1	18	In case of ongoing projects: 100% Go Live certificate required.	Request to accept WO copy + current status certificate (issued by client detailing progress, milestones achieved, expected go-live) in lieu of Go-Live certificate for ongoing projects.	Please refer to the revised clause in chapter 4 of Corrigendum 1 document
6	6.1 PQ, Bidder's Experience _2	18	Sole bidder or Lead Bidder should have experience of SITC of at least one surveillance project covering at least 1000 cameras in past 7 years.	Many projects fall in 600–900 camera range. Request to reduce threshold from 1000 to 600 cameras.	Please refer to the revised clause in chapter 4 of Corrigendum 1 document

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7	6.3, OEM Selection Criteria, Sr. 6 (e-Challan)	36	OEM Selection Criteria for software components.	PQ and TQ marks allocation already addresses qualitative assertions. OEM Selection criteria for software components are causing restrictions. Request to remove OEM selection criteria for these line items.	Please refer to the revised clause in chapter 6 of Corrigendum 1 document
8	6.3, OEM Selection Criteria, Sr. 8 (Video Summarization)	36	Minimum installation base of 100 cameras for video summarization licenses in India or globally in last 7 years.	Same concern OEM Selection criteria for software causing restrictions and monopolistic environment. Request to remove. Also request to include DPIIT certification clause for uniformity.	Please refer to the revised clause in chapter 6 of Corrigendum 1 document
9	6.3, STQC	36	STQC certificate requirement.	Request to make valid STQC certificate mandatory at bid submission.	Please refer to the revised clause in chapter 6 of Corrigendum 1 document
10	2. Notice Inviting Proposal	45	Last date of Physical Bid Submission / Last Date of Online Bid Submission. Submission (in Hard Copy) Physical documents in sealed envelope may be submitted before 17/12/2025 up to 1700 Hrs.	Please confirm if the hardcopy submission date is also 17/12/2025, and if so, kindly extend the deadline by three (3) working days (i.e., up to 22/12/2025 at 1700 Hrs.) to allow sufficient time for preparation, sealing, and secure dispatch.	Dates will be updated.
11	Clause 7.2, Point 18, Pg. 46	46	Surveillance System additional quantities for project.	We understand any additional quantities required for the project whether or not listed in BoQ must be included in financial proposal and supplied at quoted BOQ rates. Please confirm.	Confirmed. Any additional quantities required must be included in the financial proposal and if required by SCADL later, shall be supplied at quoted BOQ rates.

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12	Section 7.2A(3)	50	Front facing camera: 1 camera per arm (min 16MP) or max 2 cameras per arm (min 8MP).	Please confirm 300 front-facing cameras in Commercial bid Schedule-I Table-B (Item 8) are based on 1 camera per arm or 2 cameras per arm, to decide 16MP or 8MP proposal.	Please refer to chapter 3 Revised scope of work of Corrigendum 1
13	7.3 Video Analytics Solution and e-Challan Application	51	Traffic use cases: Detection of two-wheelers without Helmet, vehicles on wrong side, more than two passengers on two-wheeler ANPR Camera (700 SASA + bidder's ANPR cameras).	As per RFP, total ANPR camera count = 1,000 + 1,275 = 2,275. Kindly confirm whether bidder can consider 2,275 ANPR camera licenses for traffic VA use cases.	Yes. Bidder must provision ANPR capability for all ANPR cameras per their network design, including 700 SASA-I cameras + new cameras as per Clause 7.3 & 11.6.
14	7.3 Video Analytics Solution	51	License cost for Automatic Number Plate Recognition (ANPR) ANPR Camera (1000 cameras of SASA + bidder's ANPR cameras per network design).	Kindly confirm whether bidder can consider 2,275 ANPR camera licenses.	Yes. Bidder must include cost for ANPR license covering ANPR cameras specified in their network design for this project.
15	7.3.2 Facial Recognition	55	Facial recognition license requirements.	Please confirm whether bidders must provide perpetual licenses usable for both edge analytics and offline/recorded video feed processing.	Confirmed. Bidders must provide perpetual licenses usable for both edge analytics and offline/recorded video feed processing.
16	Clause 11.1/11.2	91	Payment milestones for SITC implementation.	Request to revise M2/M3 payment milestones (60/20 split) and revise payment milestones for edge infra.	Please refer to the revised clause in chapter 9 of Corrigendum 1 document
17	Clause 11.3	91	Payment for analytics licenses CAPEX vs OPEX.	Request not to defer CAPEX payment to OPEX for analytics licenses.	Please refer to the revised clause in chapter 9 of Corrigendum 1 document
18	Clause 11.4	91	O&M billing start date.	When does O&M billing commence?	O&M billing starts immediately after successful SITC milestone completion per Clause 11.2, at unit

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					rates quoted in OPEX financial bid.
19	7.6 Network/B backbone Connectivity	104	Bandwidth should be designed in redundant mode (Primary and Secondary link) running 24x7.	Does this mean bidder provides 2 links from 2 different POPs?	Confirmed. Bidder to design and provide bandwidth from TSP/ISP under a tripartite agreement with SCADL.
20	7.6 Network/B backbone Connectivity	105	Connectivity between Smart City device and telco device configured as 1+1 redundancy.	Please elaborate is 1+1 redundancy from 2 providers or 2 paths?	1+1 redundancy means two physically diversified fiber paths between the Smart City core device and the telco device at ICCCL.
21	Annexure I, Section 8 (Camera Sensor Size)	106	Sensor size: 1/2.8" for 2MP, 1/2" for 4MP, 1/1.2" for 8MP cameras.	Request to relax sensor size to 1/2.8" for all camera resolutions (2MP, 4MP, 8MP) for more OEM participation.	Please refer to the revised clause in chapter 10 of Corrigendum 1 document
22	Section 9, O&M	107	PM should be carried out per industry standard. SI should send reports on monthly/quarterly basis.	We understand preventive maintenance is quarterly, even though reports are required monthly/quarterly. Please confirm.	Confirmed. PM is quarterly. Reports must be submitted monthly or quarterly as specified in the RFP.
23	Annexure I, Section 18 (Blade Server)	108	Blade Server: 2 x 900 GB SAS (10k rpm) hot swap disk.	Request to accept 1.2TB SAS disk as alternative.	Please refer to the revised clause in chapter 10 of Corrigendum 1 document
24	Clause 11.6, Table A, Pg. 112	112	Table A) Central Infrastructure Storage line items (Sr. No. 1, 3 & 4) and Note 18(iii) about SAN+NAS vs Unified storage options.	Three storage line items given confirm how prices should be quoted. Is Sr. 1 separate and bidder opts from Sr. 3 & 4?	Please refer to the revised clause in chapter 10 of Corrigendum 1 document
25	Clause 13, Statutory Variation	116	If in case during the tenure of the project, GST bracket is changed, as per the Govt. norms, corresponding effect shall be extended in the consequent billing.	Our understanding is that statutory variation is applicable even if there is introduction of any new taxes/levies by Central Govt/State Govt or any local	Confirmed. Contract price will be amended as per applicable laws in case of changes to existing or introduction of new taxes/duties/levies.

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				bodies. Please confirm.	
26	Clause 13.4	116	PBG 5% of contract value covering the period of contract and 180 days beyond the contract period.	Request to confirm whether initially we can provide PBG up to period of 3.5 years along with commitment letter that new PBG will be issued before expiry.	No. PBG must cover the entire contract period plus 180 days. Shorter-period submission with renewal commitment is not permissible.
27	Clause 11.2	117	Implementation timeline for NMS, VMS and Edge Location Infrastructure: SITC of VMS, NMS Applications.	VMS and NMS are COTS products installed in Data Center; their payment terms should be aligned with DC hardware, not edge infrastructure.	Please refer to the revised clause in chapter 10 of Corrigendum 1 document
28	Clause 11.6, Commercial Bid Format, B3	118	B3) SITC of software applications SITC of Enterprise Management System (EMS)/NMS with required OS & DB along with client licenses for 30 concurrent users and required licenses to integrate all active equipment.	Please clarify total maximum quantity of IoT devices connected with EMS/NMS to calculate licenses.	Bidder to calculate the total active components quantity as per the Tender BOQ and propose NMS/EMS licenses accordingly.
29	Clause 11.6, Commercial Bid Format	120	Note: The quoted rate for all OPEX line items for one year will be applicable for all the years throughout the entire contract period. In the event that both parties agree to extend the contract, the established rate will continue to apply for the 6th and 7th years in O&M phase.	The bidder will be quoting for 5 years taking into all offers and price escalation. For year 6th and 7th, the price needs to be mutually agreed upon. Request to amend the clause accordingly.	In the event that both parties agree to extend the contract beyond 5 years of O&M phase after Go-Live, the mutually agreed rate will apply for the next two years or further extension.
30	Clause 11.6	120	CAPEX:OPEX ratio and minimum OPEX threshold.	Request to reduce minimum OPEX threshold from 10% to 5%.	Please refer to the revised clause in chapter 8 of Corrigendum 1 document

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31	Clause 11.6, Table E	126	License cost for Detection of lane violation blocking free left traffic by entering wrong lane 100 Nos.	The above-mentioned traffic VA use-case is designed to run on per-lane ANPR Cameras, not surveillance cameras (as capturing number plate is essential for challenging). Request to confirm the same.	Please refer to the revised clause in chapter 10 of Corrigendum 1 document
32	Clause 11.6, Table E	126	10. License cost for Not wearing seat belt detection 490 Nos. 14. License cost for Use of Mobile Phone while driving 490 Nos.	As per Section 7.2 A (3), only 300 front-facing cameras are mentioned. However, 490 licenses are mentioned for seat belt and mobile phone detection. Kindly clarify the mismatch between 300 cameras and 490 licenses.	Refer Corrigendum 1 for clarification on the number of front-facing cameras and corresponding license requirements.
33	Section 16, Storage (Applications)	221	Equivalent no. of port SAN switch with 10G port compatible with the Storage.	Industry standard SAN Switch speeds are 64/32/16 Gbps. SAN Switch does not come with 10G speed. Request to modify to 64G/32G port speed.	Please refer to the revised clause in chapter 10 of Corrigendum 1 document
34	Annexure I, Section 15.1, Sub-point 23	225	Firewall intrusion detection, preventive actions, response reporting, user/admin authentication.	Please clarify the scope of firewall intrusion detection and preventive actions required.	Comprehensive intrusion detection across all threat categories per Section 15.1 (sub-point 23) is required. Preventive measures and event response/closure reports are mandatory.
35	Annexure I (Firewall/IPS)	225	IPS throughput specifications.	Request IPS throughput ≥ 20 Gbps, TLS 12 Gbps, scalable to 35 Gbps. NIPS is functionally equivalent/superior to UTM.	Refer Corrigendum 1. NIPS accepted as functionally equivalent/superior to UTM.
36	Annexure I (Firewall)	225	IPS make/model specification.	Please specify the make of the proposed IPS.	Please refer to the revised clause in chapter 10 of Corrigendum 1 document

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37	Section 18, Blade Chassis and Server	225	Blade server technical specifications.	Blade Server specifications request to accept industry-standard alternatives. No GPU mentioned in tech specs but CAPEX Schedule-I mentions DC server with GPU. Confirm if bidder can size as per OEM recommendations.	Bidders may size DC compute (including GPUs) as per OEM recommendations, supported by an OEM sizing sheet, ensuring all RFP performance and SLA requirements are met.
38	Clause 11.6, Schedule-II OPEX	111	Operational and Maintenance Expenditure (OPEX).	No separate line item for NMS/VMS O&M cost. How to quote?	Please refer to the revised clause in chapter 10 of Corrigendum 1 document
39	CAPEX Table I, B3 (VMS Licenses)	115	B3) SITC of base product of VMS with OS & DB, client licenses for 100 concurrent users, required licenses for all cameras under this contract + future expansion.	VMS license for new junction cameras only? Or existing cameras as well? Please confirm.	VMS licenses under B3 cover new SASA-II cameras only. Existing SASA-I cameras continue on current VMS. SCADL may request additional licenses at quoted rates in future.
40	CAPEX Table I, B2, Item 8 (Front-Facing Cameras)	115	IP Camera for Surveillance (Front Facing) with VMS integration license 300 Nos.	Kindly confirm whether BOQ quantities are based on 1 camera per lane or 2 cameras per lane.	BOQ based on standard design assumption (1 high-res or 2 lower-res per lane). Finalized during site survey.
41	CAPEX Table I (Speed Detection)	115–126	Speed detection licensing.	Is speed detection a separate license or part of ANPR license?	Speed detection is part of the ANPR license. Bidder must propose accordingly without assuming separate licensing.
42	Clause 11.6, Commercial Bid Format	120–126	Note for financial bid: Bidder will have to fill quantities of ANPR cameras, field switches, e-Challan use case licenses as per their network design. Bidder should also include 700 cameras license qty installed under SASA project.	As per RFP, Clause 11.6 (Page 120) mentions 1,225 ANPR licenses. However, Clause 7.3 states ANPR cameras consist of 1,000 SASA cameras + additional per bidder's design = 2,275. Kindly confirm total ANPR camera licenses required.	Please refer to the revised clause in chapter 8 of Corrigendum 1 document

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43	Clause 11.6, Table D	126	Table D) Removal and Re-installation of items.	Please clarify payment terms, payment process, required documents, and payment timeline for this section.	Please refer to the revised clause in chapter 9 of Corrigendum 1 document
44	Clause 13.23	146	Change order provisions.	Request to add a change order clause for scope variations.	Please refer to the revised clause in chapter 9 of Corrigendum 1 document
45	14.23 Self Certification on PMA	196	PMA self-certification requirement.	We understand PMA self-certification must be provided by the OEM, not the bidder. Please confirm.	Confirmed. PMA self-certification must be submitted by the OEM.
46	Annexure I, Section 8 (ANPR/RLVD Camera)	206	Image sensor and Effective Pixels: For ANPR Cameras: Model 1: 1 camera per lane (min 2MP), Model 2: 1 camera per 2 lanes (min 4MP). For RLVD Camera: 8MP or better.	Request to amend ANPR camera resolution allow 8MP for multi-lane coverage.	Please refer to the revised clause in chapter 10 of Corrigendum 1 document
47	Annexure I, Section 10 (Front Facing Camera)	210	Certificate: UL	Request to delete UL foreign certification for equal participation to Indian OEM. As per DPIIT Rule 144(xi) of GFR 2017, UL is a foreign certification. Request to accept BIS which is equivalent.	Please refer to the revised clause in chapter 10 of Corrigendum 1 document
48	Annexure I, Section 15.1 (Front Facing Camera) (Section 10) + 199 (Section 15.1 start)	210	Front Facing Camera and Box Camera certifications.	Request clarification on applicable certifications for front-facing and box cameras for ANPR/RLVD.	Please refer to the revised clause in chapter 10 of Corrigendum 1 document
49	Section 17, Sr. 12 (Storage Architecture)	222	Application data (block data) should be on SSD/SAS and Video data (File data) should be on SAS/NL-SAS.	Application data should be on NVMe (latest/better technology for performance), Video data on SAS/NL-SAS. Request to modify.	Bidders may propose superior storage architecture provided all RFP performance and SLA requirements are met.

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50	Section 29, NMS	235	Additional point NMS OEM certifications.	Request to add ISO 27001, ISO 27034, and CIS Benchmark compliance certification for NMS OEM with minimum 10 years' market presence.	Please refer to the revised clause in chapter 10 of Corrigendum 1 document
51	Section 29, NMS, F Centralized Helpdesk and Ticketing System	235	Proposed solution should be certified and based on latest ITIL-v3 framework.	Since industry standards have progressed to ITIL® 4, request to update the clause to accept ITIL® 4 certification.	The solution should align with the ITIL® framework. Solutions certified on ITIL® 4 with relevant practices will be acceptable, provided documentary proof is submitted during bidding.
52	Section 15, Annexures (NMS)	235–236	Should provide accessibility to internal built-in database via the application GUI. Solutions should be distributed, scalable and open to third-party integration.	The requirement to provide direct accessibility to the internal built-in database through the application GUI raises significant security concerns and could unfairly favor a specific OEM. Request to relax this clause from NMS/EMS scope. We understand open third-party integration is expected as a solution capability.	Refer Corrigendum 1. Bidders' understanding re: third-party integration is correct solution should be distributed, scalable, and designed with open integration capability. Exact integration count/types will be communicated during implementation.
53	6.2 TQ, Experience Bidder_1	26	The sole bidder or The Lead Bidder (in case of consortium) should have experience of one surveillance project of value ≥ applicable threshold.	Request to allow any consortium member (not just lead bidder) for experience qualification. Also accept joint consortium experience and O&M-only projects.	Please refer to the revised clause in chapter 5 of Corrigendum 1 document
54	6.2 TQ, Note 1	26	Total project value comprising surveillance component, passive items, and associated DC component only.	We understand DC components like servers, storage, switching placed under any BOQ head (control center/room etc.) can be	Confirmed. DC components regardless of BOQ heading will be considered.

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				considered. Please confirm.	
55	6.2 TQ, Experience Bidder_2	26	Sole bidder or Lead Bidder should have experience of SITC of at least one surveillance project covering at least 1000 cameras.	Request to reduce camera threshold from 1000 to 600 for TQ evaluation as well and allow any consortium member.	Please refer to the revised clause in chapter 5 of Corrigendum 1 document
56	6.2 TQ, Point No. 3	26	Sole bidder or Lead Bidder should have experience of SITC of at least one surveillance project covering at least 1000 cameras.	Request to allow any member of consortium (not just lead bidder) for this TQ criterion.	Please refer to the revised clause in chapter 5 of Corrigendum 1 document
57	6.2, 2 Experience Bidder_1 (TQ)	26	Experience criteria for consortium lead bidder or sole bidder only.	Request to allow joint consortium members to qualify for experience criteria.	Please refer to the revised clause in chapter 5 of Corrigendum 1 document
58	6.4 Preference to Class-I Local Supplier	42	6.4 Preference to Class-I local supplier.	We understand Bidder can submit self-declaration/Cost auditor/statutory auditor declaration. Please confirm.	Confirmed. Self-declaration or cost auditor/statutory auditor declaration is acceptable.
59	7.1 Current Scenario	44	Existing ICCC with servers, storage, workstations for monitoring.	Please provide make/model details of existing ICCC system for integration planning.	Please refer to the revised clause in chapter 11 of Corrigendum 1 document
60	7. Scope of Work (ICCC Integration)	44–45	Selected bidder responsible for SITC of CCTV Cameras, network devices, servers, storage, IT infrastructure, DC, COTS e-Challan/AI application, fully functional & integrated with ICCC.	We understand bidder needs to integrate with existing ICCC (no new ICCC required). Please confirm.	Confirmed. Bidder must integrate with existing ICCC. No new ICCC required. Bidders are encouraged to visit the facility.
61	7. Scope of Work	45	7.2 Surveillance System: Approx. 75 traffic junctions, 88 entry-exit points, 15 bridges.	The list of 75 traffic junctions is not incorporated in the RFP. Request to share the list with number of RLVD arms and ANPR lanes per junction.	The list will be shared post-award to ensure clarity in implementation plans. Bidders should base financial proposals on aggregate BoQ quantities.

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62	7.2A Surveillance System	45–46	RLVD Cameras (1 per arm), ANPR Cameras (1 per lane at 2MP or 1 per 2 lanes at 4MP), PTZ cameras (1 per junction/ring road), Front Facing cameras.	Please confirm RLVD/ANPR/PTZ/Front-facing camera configuration per junction.	Please refer to the revised clause in chapter 3 of Corrigendum 1 document
63	7.2 Surveillance System (Poles)	45–46	Cameras to be installed on poles/cantilever/gantry. Some locations have existing poles/gantry available.	Please share existing pole quantity and list of existing locations.	SCADL will provide the quantity and list of existing pole locations shortly.
64	7.2, Point 21 (Integration)	46	Integration with Ahmedabad Viswas, Nirbhaya, CSITMS, Netram Gujarat for accessing deployed cameras.	We understand SCADL will provide APIs and arrange support from existing OEMs for integration. Please confirm.	Confirmed. SCADL will provide APIs and arrange OEM support. However, bidder is responsible for completing integration within the given timeline.
65	7.2 Surveillance System (Integration with existing systems)	46	SI is expected to integrate with existing systems implemented in Ahmedabad Nirbhaya, Netram, CSITMS and VISWAS Project.	Please provide make and model of list of systems for integration planning.	Please refer to the revised clause in chapter 11 of Corrigendum 1 document
66	7.3 Video Analytics Solution and e-Challan (Integration)	49	Request for addition integration clause for SASA-I.	Request to incorporate clause mandating that SASA-II is seamlessly integrated with all SASA-I components at database, application, and GUI levels with unified dashboard for challan generation, monitoring, and reporting.	The successful bidder must coordinate with existing SASA-I SI, adopt existing schemas, interfaces, and workflows, and deliver a unified dashboard without modifying SASA-I unless approved by SCADL.
67	7.3 (Source Code)	49–50	Source code and application handover at contract end.	Please confirm source code handover requirements at contract end.	Yes. Source code will be handed over post-NDA signing at contract end. Bidder must ensure application runs independently post-contract and provide training to SCADL.

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68	7.3.1 Use Cases	50	Detection of damaged infrastructure, Potholes, Cattle on road, uncovered debris, Spitting Detection, Water logging (listed use cases).	These use cases run on PTZ cameras, not ANPR. Please confirm.	Please refer to the revised clause in chapter 3 of Corrigendum 1 document
69	7.3.3 e-Challan System and Dashboard (Vehicle Classification)	65	Vehicle Classification: System should view ambient volume count of all vehicle types (2W, 3W, car, Bus, LCV, HCV, MPV, HGV, HPV, LGV, LMV) across all junctions with drill-down per arm.	Please clarify if vehicle classification is required as part of all ANPR cameras in addition to ANPR license.	Refer Corrigendum 1. Vehicle classification is critical for traffic analytics enabling bifurcation of vehicle types across all junctions with drill-down analysis capability.
70	7.3.4 ANPR System (Accuracy)	69	Accuracy of ANPR system should be more than 90% for standard English Alphanumeric Font and HSRP and 75% for Hindi Devnagari and Gujarati scripts, capturing plates at speed up to 150 Km/hour.	As per GoI guidelines, all vehicles must use HSRP printed only in English alphanumeric. Request to remove Hindi/Gujarati accuracy requirements.	Revised accuracy benchmarks: HSRP ≥ 95%, English Numerical Font ≥ 90%, Hindi/Gujarati/Other Indian Languages ≥ 80%, Alphanumeric ≥ 75%.
71	7.3.4 ANPR System (Integration)	69	ANPR system to be integrated with e-GujCop, RTO Database (Vahan, Sarathi), One Nation One Challan application.	Please clarify integration scope will SCADL provide APIs, documentation, and credentials? Who is responsible for developing the integrations?	SI is responsible for developing all API-based integrations. SCADL will facilitate coordination and provide API documentation/credentials.
72	7.4 (SASA-I Camera Storage)	71	SASA-I camera feeds storage in new DC.	Confirm whether SASA-I camera feeds are to be stored in the new DC clarify storage scope.	Refer Corrigendum 1. SI responsible for technical coordination with existing SASA-I SI for storage integration.
73	Clause 7.5	72	Video storage specifications.	Request to amend video storage clause allow variable bitrate and open architecture.	Please refer to the revised clause in chapter 3 of Corrigendum 1 document
74	7.5 (Video Retention)	72	120-day event data retention for RLVD/ANPR/ITMS use cases.	Confirm 120-day event retention requirement for all RLVD, ANPR, and ITMS use cases.	Confirmed. 120-day event data retention is required for all RLVD, ANPR, and ITMS use cases.

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Sr. No.	Clause	Page No	Content of RFP requiring Clarification	Clarification Sought	Response
75	7. Scope of Work (Network Design)	73	Bidders are free to alter the indicative network design with condition that proposed design must comply with all technical and functional requirements. Also mentions point-to-multipoint leased lines/L2VPN from TSP.	These two clauses are contradicting. One allows bidder free hand for network design, while the other specifies MPLS/L2VPN. Can bidder plan wireless solution?	Network design must be based on MPLS solutions per RFP requirements. Wireless solutions are not permitted. Refer Corrigendum 1 for updated details.
76	Clause 7.10, Point 3(xiv) (PAC) (Clause 7.6 Network/Backbone Connectivity)	79	As part of site preparation, bidder should supply & install 2 Nos of 15Tr PAC system in DC room at ICCC.	Please provide exact location of Outdoor Unit of PAC in ICCC building for precise costing.	Site is ICCC Paldi, Ahmedabad. Bidders may conduct a site visit. Exact ODU placement finalized during post-award site survey.
77	7.12 General Instructions, Point 10	81	SI's responsibility to check compatibility of new hardware/software with existing components.	We understand existing monitoring client will be used for reviewing/validating violations and e-challenging for both new and current deployments. Please confirm.	Confirmed. SI must validate compatibility of all proposed hardware/software with existing infrastructure before deployment to guarantee seamless operation.

2. Purpose of This Project

Ahmedabad Municipal Corporation (AMC) through Smart City Ahmedabad Development Limited (SCADL) implemented the Safe and Secure Ahmedabad (SASA 1.0) project in year 2018. The SASA 1.0 project included deployment of IP-based CCTV cameras across strategic locations in the city, establishment of a centralised Integrated Command and Control Centre (ICCC), a primary data centre, and integration of video analytics for traffic and safety surveillance.

SASA 2.0 is progression of this initiative, aimed at widening the city's surveillance coverage, enhancing video analytics capabilities, and strengthening the city's safety, traffic management, and civic governance infrastructure. The purpose of this project is to significantly expand the city's surveillance network by deploying cameras at 1,500 AMC plots, 250 strategic riverfront locations, 88 city entry and exit points, and 17 bridges. This will ensure comprehensive visual coverage of critical areas that were previously unmonitored.

3. Revised Scope of work

The scope of work for SASA 2.0 encompasses the end-to-end design, supply, installation, commissioning, integration, testing, and operation and maintenance of a comprehensive surveillance and analytics system across multiple location types in Ahmedabad city. The selected System Integrator (SI) will be responsible for all aspects of project delivery including civil infrastructure, power supply, connectivity, hardware, software, analytics, data centre setup, and five-year operations and maintenance.

3.1. AMC Plots – 1,500 Locations

Ahmedabad Municipal Corporation owns approximately 1,500 plots across the city. These plots are spread across various zones and are currently vulnerable to encroachment, illegal dumping of construction and demolition waste, garbage dumping, unauthorized parking, and cattle menace. Many of these plots are in remote areas with limited access to power and internet connectivity. The surveillance deployment at AMC plots will follow two models depending on whether the plot has a fixed boundary wall or not:

Model A – Plots with Fixed Boundary:

For plots that have a defined boundary wall with entry and exit gates, the following camera configuration will be deployed.

- **One fixed camera at the entry gate** – This camera will be positioned to capture the number plate and vehicle details of any vehicle entering the plot. The camera will have ANPR capability to automatically read and log vehicle registration numbers.
- **One fixed camera at the exit gate** – Similarly, this camera will capture the number plate and details of vehicles exiting the plot.
- **One PTZ camera inside the plot** – This camera will be placed at a strategic elevated location within the plot to provide 360-degree coverage. The PTZ camera will be programmed for automatic scheduled rotation to systematically scan the entire plot area. The camera will also be configured to capture time-series lapse images at regular intervals. These time-lapse images will be compared over time to detect any changes in the plot's landscape, which could indicate encroachment activities. When an anomaly is detected, the system will automatically generate a ticket and send an alert to the concerned AMC zone officer.

Primary Use Cases at AMC Plots:

- Encroachment detection through time-lapse comparison
- Construction and demolition (C&D) waste dumping detection
- Garbage and debris dumping detection
- Illegal parking detection
- Cattle detection
- Safety and security surveillance

These sites represent a mix of government-owned land parcels, operational yards, civic utility spaces, open public areas and waterfront stretches. All locations require continuous situational awareness, security monitoring and compliance enforcement to support operational efficiency, public safety and asset protection. These locations typically face risks such as encroachment, debris dumping, unauthorized parking, material theft, after-hours activity, illegal waste disposal, crowd movement, nuisance behavior and safety hazards at water edges. Surveillance at these sites must therefore provide both real-time alerts and evidence-grade historical visibility for investigations and operational review.

Surveillance Design for AMC Plots (With Boundary)

For plots with a fixed boundary wall, the surveillance design focuses on monitoring entry and exit points as well as providing comprehensive interior coverage. Two fixed cameras are positioned at the entry and exit gates respectively, angled to capture clear images of vehicle number plates for

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ANPR processing. A PTZ camera is mounted at an elevated strategic point inside the plot, typically on a tall pole, to enable 360-degree coverage of the plot area.

The PTZ camera operates on a pre-programmed automatic rotation schedule that systematically scans the entire plot at regular intervals. During each rotation cycle, the camera captures high-resolution images that serve as time-series snapshots. These snapshots are compared over time using the encroachment detection analytics engine to identify any unauthorized construction, material dumping, or other changes in the plot's landscape.

When an anomaly is detected, the analytics engine generates an alert with supporting evidence (images and video clips), creates a ticket in the ticketing system, and sends a notification to the concerned AMC zone officer via SMS, email, and mobile app push notification. The zone officer can then view the alert details on the ICCC dashboard or mobile app and initiate appropriate action. All equipment at the plot are housed in a weatherproof outdoor junction box with tamper-proof locking. Power is provided either through a grid connection or a solar panel system with battery backup, depending on the site feasibility assessment.

Model B – Plots without Fixed Boundary:

For plots that do not have a boundary wall, the following camera configuration will be deployed:

- **One PTZ camera** – Placed at a strategic location for maximum area coverage with 360-degree rotation capability.
- **Two fixed cameras** – Placed at strategic vantage points for continuous monitoring and ANPR-based identification of vehicles operating in or near the plot area.

Surveillance Design for AMC Plots (Without Boundary)

For plots without a boundary wall, the surveillance design prioritizes maximum area coverage and vehicle identification. One PTZ camera is placed at the most strategic elevated point to cover the maximum area with its 360-degree rotation capability. Two fixed cameras are positioned at strategic vantage points chosen to capture vehicle number plates and monitor the most vulnerable access points of the plot.

The analytics and alerting mechanism remains the same as for bounded plots, with time-lapse comparison for encroachment detection and real-time detection of dumping, parking, and other violations.

3.2. *Sabarmati Riverfront – 250 Strategic Points*

The Sabarmati Riverfront is one of the most prominent and heavily visited public spaces in Ahmedabad. Surveillance coverage is required at 250 strategic points and locations along the east and west sides of the riverfront. A minimum of two cameras will be deployed at each location or point.

Primary Use Cases at Sabarmati Riverfront:

- Traffic-related use cases (except red light violation detection)
- Safety and security surveillance
- People counting and overcrowd detection
- Unattended object detection
- Spitting and littering detection
- Vandalism and property damage detection

Surveillance Design for Sabarmati Riverfront

The riverfront surveillance design covers 250 strategic points along the east and west sides of the Sabarmati Riverfront. At each location, two fixed cameras are deployed to provide overlapping coverage of the area. The cameras are positioned to monitor pedestrian areas, vehicle movement zones, and public gathering spaces.

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The system supports analytics for people counting, overcrowd detection, unattended object detection, and safety surveillance. All cameras are connected to the central data centre through MPLS or broadband connectivity.

3.3. City Entry and Exit Points – 88 Locations

Ahmedabad has 88 identified city entry and exit points where vehicles enter and leave the city. These are critical checkpoints for monitoring traffic flow, identifying unauthorized vehicles, and detecting traffic violations. Each location will have a minimum of two fixed cameras and one PTZ camera.

Primary Use Cases at City Entry/Exit Points:

- Traffic-related use cases (except red light violation detection)
- Automatic Number Plate Recognition (ANPR)
- Detection of uncovered debris in trucks and extended metallic elements
- Over-height vehicle and unauthorized vehicle entry detection
- Safety and security surveillance
- Cattle detection

Surveillance Design for City Entry/Exit Points

Each of the 88 city entry and exit points is equipped with two fixed cameras and one PTZ camera. The fixed cameras are positioned to capture vehicle number plates from both directions of travel (entry and exit) for ANPR processing. The PTZ camera provides an overview of the entire entry/exit area and can be used for incident investigation and tracking.

The system supports detection of uncovered debris in trucks, over-height vehicles, unauthorized vehicle entry, and other traffic-related violations.

3.4. Bridges – 17 Locations

Ahmedabad has 17 major bridges that experience heavy traffic flow and are prone to speeding and other traffic violations. Each bridge will have a minimum of six cameras for comprehensive coverage of traffic from both directions.

Bridge structures present dynamic monitoring conditions due to vibration, wind exposure and corrosive environments. At the same time, they are high-risk areas for stalled vehicles, sudden crowding, wrong-side driving and accident/fall-related incidents. Surveillance at bridges must provide uninterrupted visual awareness while accommodating the physical characteristics of bridge decks and rails.

Primary Use Cases at Bridges:

- E-Challan generation for over-speeding vehicles
- No helmet detection
- Triple riding detection (more than two passengers on two-wheelers)
- Detection of uncovered debris in trucks
- Safety and security surveillance
- All traffic-related violations except red light violation detection

Surveillance Design for Bridges

Each of the 17 bridges is equipped with a minimum of six cameras – typically four fixed cameras and two PTZ cameras. The fixed cameras are positioned to capture traffic from both directions, with ANPR capability for vehicle identification. The PTZ cameras provide overview coverage and can track specific vehicles or incidents.

The analytics at bridges focus on traffic violation detection including over-speeding, no helmet, triple riding, and other violations. The system generates E-Challans with photographic evidence for enforcement.

Traffic Junction – Price Discovery (1 Junction)

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To enable future scalability, the project includes a price discovery scope for one complete traffic junction. This junction will be equipped with:

- ANPR cameras for all approaches
- Red Light Violation Detection (RLVD) cameras
- One PTZ camera for overview
- One fixed camera facing the back side of vehicles
- Cantilever or gantry structure for camera mounting
- Junction box with all necessary networking equipment
- Ducting, cabling, and all requisite infrastructure

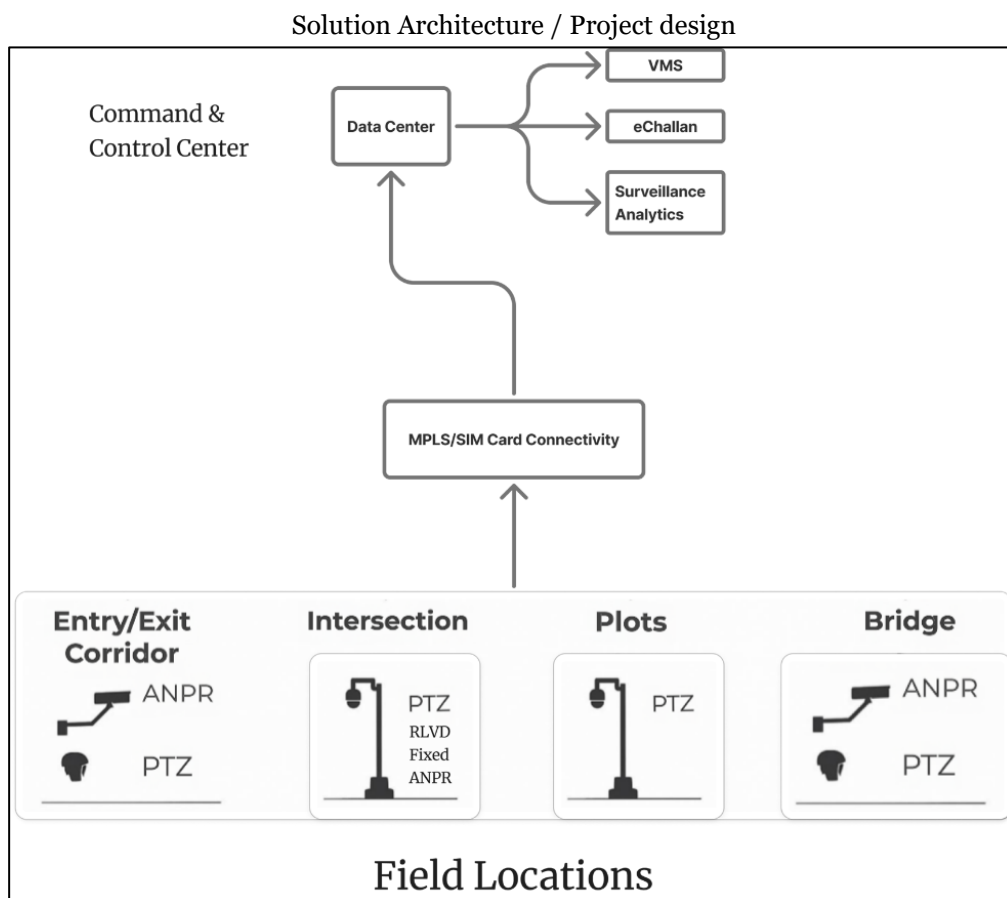
Surveillance Design for Traffic Junction (Price Discovery)

The traffic junction is designed as a complete traffic enforcement solution with ANPR cameras covering all approaches, RLVD cameras for red light violation detection, a PTZ camera for overview, and a fixed camera facing the back side of vehicles for rear number plate capture.

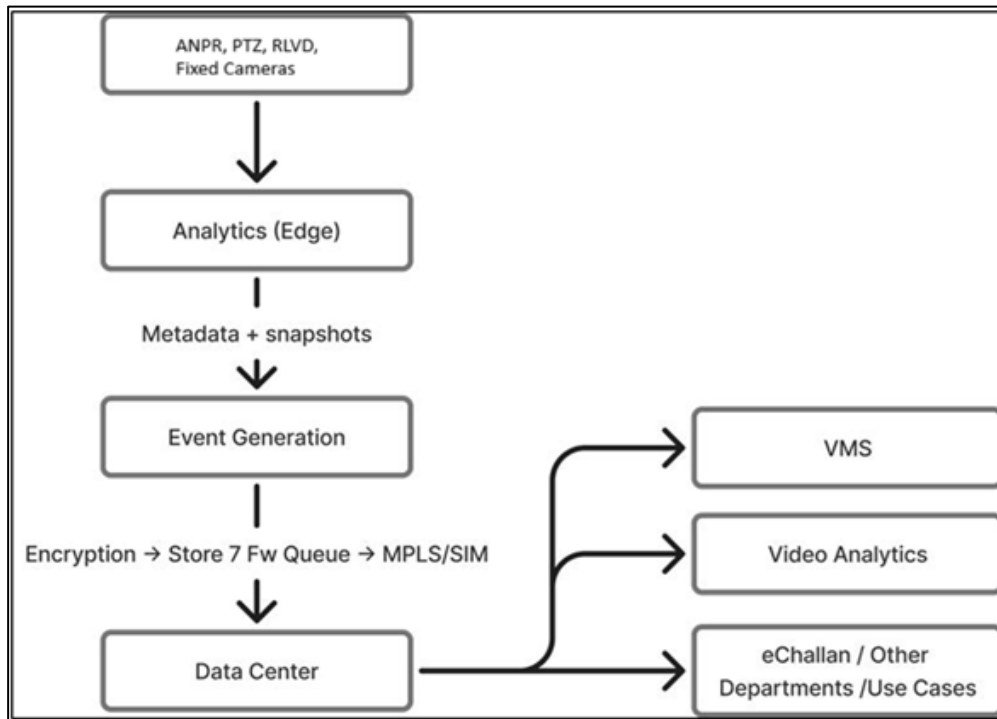
All cameras are mounted on cantilever arms or gantry structures positioned above the road. A junction box at the base of the gantry houses all networking equipment, power supply, and the local processing unit. The junction is connected to the data centre through dedicated MPLS connectivity.

The purpose of this price discovery is to establish unit rates for each component so that in the future, if the requirement arises, SCADL may issue additional work orders to the selected agency for implementation of surveillance at additional traffic junctions under this project.

Note: Ahmedabad city is also planning a larger project for Automatic Traffic Signal Control Systems for all junctions in the city. Once that project is onboarded, the traffic junctions developed under SASA 2.0 may be handed over for operations and maintenance under that project on mutually agreed terms.



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Process flow of the data and event

Camera Placement, Coverage and Analytics Design

Camera placement must be based on a thorough field survey that analyses angles, shadows, obstructions, lighting and subject distance. The Selected Bidder shall prepare detailed coverage diagrams for every location, confirming that pixel-density requirements for each use case are met. Evidence-grade performance is mandatory for enforcement sites; thus, front-facing cameras, ANPR views and PTZ verification views must be optimized for clarity.

All analytics must execute locally at the edge. The design shall clearly establish which camera delivers which analytics function, how verification is performed and how long evidence clips are retained before being transmitted. Only alerts, metadata and evidentiary clips shall be sent to the ICC or ONOC. The updated analytics framework covers key use cases such as ANPR, helmet detection, seatbelt detection, wrong-side driving, dumping detection, vandalism, object tracking, encroachment, crowd density and other authorized analytics including facial recognition (only at locations explicitly approved by SCADL). A revised analytics-to-camera mapping matrix is included as an annexure to this chapter; however, final applicability will be determined after field surveys and design validation sessions with SCADL.

Network Architecture

The network design shall connect all field locations to the central system using a combination of MPLS, L2VPN and SIM-based connectivity, depending on site feasibility and criticality. Bandwidth must be sized to support event uploads, metadata transfer and short live-view bursts, ensuring that latency and jitter meet the thresholds defined in the RFP.

Network resilience shall be ensured through diversified last-mile fibre for eligible sites and automatic failover capabilities. Field switches shall be hosted within IP-rated, tamper-resistant enclosures, and the entire connectivity ecosystem must integrate with the centralized NMS for monitoring uptime, throughput, packet loss, device health and alarms. All communication channels shall be encrypted and aligned with the Authority's cybersecurity requirements.

Application & Integration Architecture

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The application design shall include a unified Video Management System with audit logging, role-based access controls, secure authentication and operator workflow tools. The analytics platform shall ingest events from edge devices, with workflows for verification, tagging, forwarding and closure. The e-Challan module shall operate for Entry/Exit Corridors and Traffic Junctions, and at Bridges only when specifically approved by SCADL.

Integration with ICCC, ONOC and any authorized external systems shall follow published APIs/SDKs. Data flows, event formats, metadata structures and authentication mechanisms must comply with SCADL's security and interoperability requirements. The system must support dashboards for event monitoring, performance reporting and SLA compliance.

Documentation & Design Approval Process

Before implementation, the bidder shall submit a complete design package including detailed design documents, coverage maps, network diagrams, civil/electrical drawings, data-flow architecture, integration architecture and a revised BoQ aligned to the approved design and revised scope. The design shall be reviewed jointly with SCADL and concerned departments. Implementation shall commence only after SCADL provides formal approval.

3.5. Video Analytics Use Cases

Primary Use Cases (Included in Project Scope)

The following video analytics use cases are included in the primary scope of the project and must be deployed and operational at the relevant locations:

Sr No	Use Case	Description	Applicable Locations
1	Automatic Number Plate Recognition (ANPR)	Automatic detection and recognition of vehicle registration number plates from captured images, with logging of vehicle details and timestamp.	All locations
2	Uncovered Debris in Trucks and Extended Metallic Elements	Detection of trucks carrying uncovered debris, sand, or construction material, and detection of extended metallic elements protruding from vehicles that pose a safety hazard.	Entry/Exit Points, Bridges, Riverfront
3	Debris and Garbage Dumping Detection	Detection of vehicles or persons dumping garbage, construction debris, or other waste at AMC plots or public spaces.	AMC Plots
4	Over-Height Vehicle and Unauthorized Vehicle Entry	Detection of vehicles exceeding permissible height limits or unauthorized vehicles entering restricted areas.	Entry/Exit Points, Bridges
5	Spitting Detection and Littering Detection	Detection of persons spitting in public spaces or littering (throwing garbage, wrappers, or other waste).	Riverfront, Bridges
6	Detection of Cattle on Road	Detection of stray cattle or animals on roads that pose a traffic hazard.	AMC Plots, Entry/Exit Points
7	People Count and Overcrowd Detection	Counting the number of people in a defined area and generating alerts when the count exceeds a defined threshold, indicating overcrowding.	Riverfront, Bridges
8	Vandalism and Property Damage	Detection of acts of vandalism or intentional damage to public property, infrastructure, or surveillance equipment.	All locations

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Sr No	Use Case	Description	Applicable Locations
9	Unattended Object Detection and Object Tracking	Detection of objects left unattended in public spaces for an extended period, with the ability to track the object's origin and the person who left it.	Riverfront, Bridges
10	Encroachment Detection (Time-Lapse Comparison)	Periodic capture of plot images and comparison over time to identify unauthorized construction, encroachment, or material dumping. Changes are flagged and alerts are generated.	AMC Plots

Price Discovery Use Cases (For Future Deployment)

The following video analytics use cases are included for price discovery purposes. The bidder must provide technical specifications, deployment methodology, and pricing for these use cases. SCADL reserves the right to issue work orders for deployment of these use cases at any time during the contract period at the discovered prices.

Sr No	Use Case	Description	Potential Locations
1	Red Light Violation Detection (RLVD)	Detection of vehicles crossing the stop line after the traffic signal turns red. Evidence includes multi-frame images with signal status overlay.	Traffic Junctions
2	Detection of Mobile Phone Usage While Driving	Detection of drivers using mobile phones while the vehicle is in motion.	Traffic Junctions, Bridges
3	Not Wearing Seat Belt Detection	Detection of front-seat occupants (driver and co-driver) not wearing seat belts.	Traffic Junctions, Bridges
4	No Helmet Detection	Detection of two-wheeler riders not wearing helmets.	Traffic Junctions, Bridges
5	Detection of Wrong Side Driving	Detection of vehicles driving on the wrong side of the road or against the designated traffic flow direction.	Traffic Junctions
6	Detection of More Than Two Passengers on Two-Wheeler (Triple Riding)	Detection of two-wheelers carrying more than two passengers, which is a traffic violation.	Traffic Junctions, Bridges
7	Blocking Free Left and Stalled Vehicle Detection	Detection of vehicles blocking the free-left turn lane or stalled vehicles causing traffic obstruction.	Traffic Junctions
8	Detection of Water Logging	Detection of water logging on roads due to rainfall or drainage failure, with alert generation for civic authorities.	All locations
9	Facial Recognition System	Identification of persons of interest using facial recognition technology. Requires integration with law enforcement databases.	Strategic locations

Default Capabilities of the cameras

Capability	Description	Applicable To
Camera Tampering Detection	Auto-detection of any attempt to block, defocus, shift, damage or interfere with any camera	All cameras
Video Summarization	Rapid review of recorded footage, extraction of key events, efficient forensic analysis	All cameras

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Detailed Use Cases

1. **Automatic Number Plate Recognition (ANPR) :** The system shall use dedicated ANPR cameras to detect and read vehicle number plates during both day and night. Plates shall be converted into machine-readable text and stored with time, location, number-plate image and context image. ANPR should be used to monitor vehicle entry, exit and movement patterns at City Entry/Exit Corridors, Junctions, Bridges, and at Points of Surveillance where vehicle monitoring is required.
2. **Red-Light Violation / Stop Line Violation Detection (RLVD):** The system shall detect vehicles that cross the stop line or enter the intersection during a red signal phase. **The** system shall be integrated with the traffic signal controller to receive real-time signal phase data. For each violation, the system shall generate a minimum of three evidence frames — before the stop line, at the stop line and beyond the stop line — along with signal status overlay, timestamp, vehicle number plate image and context image. This use case shall apply at Corridors (88) where traffic signals exist and at all 10 Traffic Junctions.
3. **Detection of Mobile Phone Usage While Driving:** The system shall detect drivers using a mobile phone (held to the ear or in hand) while the vehicle is in motion. Front-facing cameras shall capture cabin-level views at sufficient resolution to identify phone-holding posture. Evidence clips with metadata shall be generated for enforcement review. This use case shall apply at City Entry/Exit Corridors (88) and Traffic Junctions (10).
4. **Not Wearing Seat Belt:** The system shall identify drivers and front-seat passengers of four-wheelers who are not wearing seat belts while the vehicle is in motion. Evidence clips and event metadata shall be generated for review. This use case shall apply at City Entry/Exit Corridors, Junctions and at Bridge approaches where enforcement monitoring is required.
5. **No Helmet Detection:** The system shall detect two-wheeler riders and pillion riders who are not wearing helmets. It shall capture clear images suitable for enforcement review and generate the corresponding event records. This use case shall be implemented at City Entry/Exit Corridors, Junctions and Bridges.
6. **Detection of Wrong Side Driving:** The system shall detect vehicles travelling against the designated direction of traffic flow on the carriageway. The system shall monitor vehicle movement direction relative to the lane's permitted flow using front-facing and ANPR cameras; contra-flow movement shall trigger an alert with evidence footage including vehicle image, number plate and timestamp. This use case shall apply at City Entry/Exit Corridors (88), Traffic Junctions (10) and Bridges (17).
7. **Detection of More Than Two Passengers on Two-Wheeler (Triple Riding):** The system shall detect two-wheelers carrying more than two persons. Front-facing cameras shall capture images of two-wheelers and analytics shall count the number of occupants. When the count exceeds two, an evidence clip with metadata shall be generated for enforcement review and e-Challan issuance. This use case shall apply at City Entry/Exit Corridors (88) and Traffic Junctions (10).
8. **Blocking Free Left / Stalled Vehicle Detection:** The system shall detect vehicles obstructing free-left movement or remaining stalled within an approach lane. It shall capture lane-level evidence showing the position of the obstructing vehicle and shall notify operators of sustained blockages. This use case shall function continuously at City Entry/Exit Corridors, Junctions and Bridges to support traffic flow and early intervention.
9. **Uncovered Debris in Trucks & Extended Metallic Elements and Debris / Garbage Dumping:** The system shall identify heavy vehicles transporting construction

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debris or other materials without appropriate covering, as well as trucks carrying extended metallic components that pose safety risks. Additionally, the system shall detect unauthorized dumping of debris, garbage or construction waste at SWM plots and Estate plots. Alerts, evidence images and timestamped event records shall be generated accordingly. This use case shall operate at City Entry/Exit Corridors, Junctions, Bridges, SWM Plots and Estate Plots.

10. **Over-Height Vehicle / Unauthorized Vehicle Entry:** The system shall detect vehicles exceeding permitted height limits or attempting unauthorized entry at controlled premises, such as SWM plots, Estate plots, Corridors, Junctions and Bridges. Evidence and alert records shall be created for review. This use case shall apply at locations where access control or height restrictions are relevant.
11. **Spitting Detection / Littering Detection:** The system shall detect individuals spitting or littering in public spaces. Cameras shall capture the act and analytics shall identify the spitting/littering gesture. Evidence clips with timestamp and location metadata shall be generated for enforcement review. This use case shall apply at Riverfront PoS (200), Bridges (17) and high-footfall PoS locations.
12. **Detection of Cattle on Road:** The system shall detect stray cattle or animals present on carriageways. Cameras and analytics shall identify animal-shaped objects on the road surface and generate alerts with location, timestamp and evidence footage for municipal response. This use case shall apply at City Entry/Exit Corridors (88) and Bridges (17).
13. **People Count / Overcrowd Detection:** The system shall count the number of people within the monitored area and provide density-based insights to support crowd management. This use case shall operate at Riverfront areas, Bridges, Points of Surveillance, and Entry/Exit Corridors where pedestrian activity monitoring is required.
14. **Vandalism / Property Damage:** The system shall detect acts of vandalism, tampering or intentional damage to public property, including railings, street furniture, infrastructure or signage. Alerts and evidence clips shall support timely response. This use case shall apply primarily at Riverfront locations and Estate plots.
15. **Unattended Object Detection / Object Tracking:** The system shall detect objects left unattended for a defined duration and shall track objects or individuals across camera views where required. The system shall generate relevant evidence clips and object-movement trails. This use case shall apply at Riverfront areas, Bridges, and Entry/Exit Corridors where situational awareness is important.
16. **Encroachment Detection through Time-Lapse Comparison:** The system shall detect changes in monitored areas using time-lapse comparison to identify possible encroachments, unauthorized construction or alterations to land parcels. Deviations shall be flagged for review. This use case shall apply at Estate plots and SWM plots.
17. **Detection of Water Logging:** The system shall detect water accumulation on road surfaces and in low-lying areas. Cameras shall monitor road and ground surfaces, and analytics shall identify standing water based on surface reflectivity, color change and texture patterns. Alerts with location and severity indication shall be generated to enable early warning for traffic management and municipal drainage response. This use case shall apply at City Entry/Exit Corridors (88), Bridges (17) and low-lying PoS locations.
18. **Facial Recognition:** Facial recognition shall be used only at locations expressly approved by the Authority. Detected faces shall be compared against an approved database, and alerts shall be generated only when a match is confirmed. All applicable guidelines on privacy,

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permissions and data security shall be followed. This use case shall apply to designated Points of Surveillance and selected high-footfall Riverfront areas as determined by the Authority.

3.6. Infrastructure and Civil Works

The selected bidder will be fully responsible for all infrastructure and installation work at all location types including AMC plots, bridges, city entry and exit points, riverfront locations, and traffic junctions (if required). The scope of infrastructure work includes but is not limited to:

- **Civil and Foundation Work:** Design, excavation, and construction of camera pole foundations as per structural engineering standards.
- **Pole Installation:** Supply, transportation, and erection of galvanized steel camera poles of appropriate height (6m, 8m, or 10m as per site requirements).
- **Cantilever and Gantry Installation:** Supply and installation of cantilever arms and gantry structures for bridges and traffic junctions for mounting cameras above the road.
- **Ducting:** Supply and laying of HDPE ducts for fiber optic and power cable routing.
- **Excavation and Trenching:** All excavation work required for laying underground cables and ducts.
- **Right of Path (ROP):** Obtaining all necessary permissions from concerned authorities for laying cables along public roads and pathways.
- **Road, Footpath, and Ground Reinstatement:** After completion of excavation and cable laying work, the bidder must restore all roads, footpaths, and ground surfaces to their original condition as per the standards of the respective authority.
- **Cabling:** Supply, laying, and termination of all fiber optic cables, power cables, and Ethernet cables.
- **All Other Works:** Any other civil, electrical, or mechanical work required for the complete installation and commissioning of the surveillance system at all locations.

3.7. Power Supply

Since many AMC plots are remotely located and may not have ready access to electrical power, the bidder will have the flexibility to provide electricity through either of the following options:

Option 1 – Grid Power Connection: The bidder may obtain a power connection from utility providers such as UGVCL, Torrent Power, or other authorized utility providers in Ahmedabad. All costs associated with obtaining the power connection, meter installation, and recurring electricity charges will be borne by the bidder.

Option 2 – Solar Power with Batteries: The bidder may install solar panels equipped with batteries at locations where grid power is not feasible or cost-effective. The solar power system must be designed to provide adequate power for all cameras, networking equipment, and other devices at the location with a minimum backup autonomy of three days (to account for cloudy and rainy weather conditions).

In both cases, the bidder must ensure that the performance requirements and SLA defined in this RFP are met at all times, regardless of the power solution chosen. The bidder is required to conduct a site-wise survey of each location to assess the feasibility of power supply options before finalizing the approach.

3.8. Internet Connectivity

Similar to the power supply, the bidder is responsible for providing internet connectivity at all surveillance locations. The bidder may choose either of the following options:

Option 1 – Broadband / Leased Line / MPLS Connectivity: The bidder may provision broadband, leased line, or MPLS connectivity from authorized Internet Service Providers. This is the preferred option for locations where wired connectivity is feasible.

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Option 2 – SIM-based Connectivity (4G/5G): For remote locations where wired connectivity is not feasible, the bidder may use SIM-based cellular connectivity. The SIM-based solution must provide adequate bandwidth to support live video streaming and analytics from all cameras at the location.

All connectivity costs will be borne by the bidder. Regardless of the connectivity solution chosen, the bidder must meet the performance and SLA requirements defined in this RFP.

3.9. Data Centre (On-Premise)

Under this project, a new on-premises data centre will be created at a location provided by SCADL. SCADL will provide a basic government office building at the designated location. However, all other requirements for setting up a fully functional data centre will be under the bidder's scope.

3.10. Network Disaster Recovery (NDR)

The NDR solution for the entire network of SASA 1 and SASA 2 will be part of the scope of the selected agency. The selected agency shall design, supply, install, configure, commission, and maintain a comprehensive Network Detection and Response solution that provides unified cybersecurity monitoring and protection for the entire SASA surveillance network encompassing both SASA 1 and SASA 2 infrastructure. The NDR solution shall be hosted at both the existing data centre and the new data centre to ensure comprehensive coverage, redundancy, and high availability.

The scope of the NDR deployment covers all network segments, devices, and communication paths within the SASA network. The agency shall be responsible for all aspects of the NDR solution including hardware procurement, software licensing, sensor deployment, management console setup, integration with existing security infrastructure, configuration of detection rules and response playbooks, ongoing monitoring, maintenance, and support for the entire contract period of five years and nine months.

3.11. Operations and Maintenance

The selected agency shall provide comprehensive Operations and Maintenance services for the entire SASA 2.0 system for a period of five years commencing from the date of Go-Live. The O&M scope covers all hardware, software, networking, connectivity, power, field infrastructure, data centre, NDR, and manpower deployed under this project. The agency shall ensure that all SLA benchmarks defined in this RFP are met consistently throughout the O&M period.

Key O&M Responsibilities

- **Preventive Maintenance:** Monthly cleaning and inspection of all cameras, poles, junction boxes, and field equipment; quarterly network health audits; half-yearly server and storage maintenance including firmware updates; and annual comprehensive system audit covering all components.
- **Corrective Maintenance:** Prompt repair or replacement of any faulty hardware including cameras, switches, media converters, UPS, batteries, solar panels, cables, and connectors within the SLA-defined resolution timelines. Maintenance of minimum 5% critical spares inventory within Ahmedabad at all times.
- **Software and Analytics Maintenance:** Regular updates, patches, and bug fixes for VMS, video analytics platform, ICCC dashboard, ticketing system, and E-Challan module. Periodic retraining of AI/ML analytics models to maintain accuracy benchmarks. Addition of new analytics features as reasonably requested by SCADL.
- **Connectivity and Power Management:** End-to-end management of all MPLS, broadband, and SIM-based connectivity including liaison with ISPs, SIM recharges, and bandwidth monitoring. Payment of electricity bills for all grid-connected sites. Maintenance of solar power

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systems including panel cleaning, battery replacement, and charge controller servicing. UPS battery replacement as per lifecycle.

- **Data Centre and NDR Operations:** 24x7 monitoring and maintenance of data centre infrastructure including servers, storage, cooling, power, fire suppression, and access control systems. 24x7 SOC operations for NDR including threat monitoring, incident response, forensic investigation, penetration testing, and security reporting as detailed in the NDR scope.
- **NOC and Helpdesk:** 24x7 Network Operations Centre for proactive system monitoring, fault detection, and first-level resolution. 24x7 helpdesk with ticketing system for logging, tracking, and resolving all incidents and service requests through phone, email, and web portal.
- **Field Support and Manpower:** Deployment of dedicated zone-wise field engineers and technicians across the city for on-site issue resolution and preventive maintenance. All manpower costs, tools, vehicles, and consumables required for O&M shall be borne by the agency.
- **Reporting:** Submission of daily camera health reports, weekly analytics performance reports, weekly incident reports, monthly SLA compliance reports, monthly executive summaries, and quarterly comprehensive performance reviews to SCADL as per the defined reporting schedule.

Under this project, the selected vendor may also be given the task of operations and maintenance of SASA 1.0 components. This will be at the price discovered for O&M under this project and on mutually agreed terms between SCADL and the selected vendor. The exact scope of SASA 1.0 O&M will be defined at the time of such assignment.

4. Revised Pre-Qualification (PQ) Evaluation Criteria

The bidder must possess the requisite experience, strength and capabilities in providing services necessary to meet the requirements as described in this document. The bids must be complete in all respect and should cover entire scope of work as stipulated in the bid document. This invitation to bid is open to all bidders who qualify the eligibility Criteria as given below:

Sr No	Description	Minimum Requirement	Documentary Proof
1	Consortium	<p>1.1 Consortium is allowed for participation in this tender. Consortium should be of maximum of two (2) parties.</p> <p>1.2 Collectively they should meet the aggregate requirement for financial, experience and technical capability described in this document for eligibility.</p>	<p>a) Original or Notarized Copy of consortium partnership with clearly defined stake and scope of each partner.</p> <p>b) Undertaking by lead SI of consortium to be sole responsible for execution of work defined in RFP and meeting the performance criterion.</p>
2	Legal Entity	<p>2.1 The bidder (whether sole or all consortium partners) should be an Indian firm.</p> <p>2.2 The bidder should be registered under the Companies Act 1956/2013 in India or a Limited Liability Partnership Firm under Limited Liability Partnership Firm Act 2008 or as a proprietorship firm at the time of the bidding</p> <p>2.3 The bidder should have a registered number of, GST, Income Tax / Pan number</p> <p>2.4 The bidder should be in operation in India for a period of minimum 5 years.</p>	<p>a) Copy of certification of incorporation issued by competent authority/ Registration Certificate/ Shop & Establishment certificate</p> <p>b) Copy of PAN card</p> <p>c) Copy of GST registration</p> <p>d) Copy of purchase orders showing at least 5 years of operations OR Certified true copy of balance sheet and P&L statements for last 5 years</p>
3	Financial Capability	<p>3.1 The bidder (whether sole or both members of a consortium jointly) should have average annual turnover of at least Rs. 250 Cr from IT/ITES/Telecom projects from last three audited financial years ending 31 March 2025, i.e. (FY 2022-23, FY 2023-24 and FY 2024-25).</p> <p>3.2 The bidder must have positive net worth as of the last financial year as on 31 March 2025.</p> <p>3.3 The bidder who wishes to submit the financial capability of on-going FY 2025-26; the last three FY for consideration will FY 2023-24, FY 2024-25 and FY 2025-26.</p> <p>3.4 In case of consortium -:</p> <ul style="list-style-type: none"> - The lead bidder and consortium partner together shall meet the 	<p>a) Copy of audited Balance Sheet, audited Profit & Loss statements for each of the last 3 financial years as on 31st March 2025.</p> <p>b) Certificate from the statutory auditor / Chartered Accountant (CA) clearly specifying the annual turnover for each of the last 3 financial years as on 31st March 2025. Original or Notarized Copy should be submitted for evaluation.</p> <p>c) For on-going financial year, CA certificate is required for FY 2025-26 at the time of</p>

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Sr No	Description	Minimum Requirement	Documentary Proof
		aggregate average annual turnover of Rs. 250 Crores Cr from IT/ITES/Telecom projects in last 3 financial years ending 31 March 2025, i.e. i.e. (FY 2022-23, FY 2023-24 and FY 2024-25).	bid submission. And the final audited balance sheet with audited profit & loss statement shall be submitted when the audit is completed.
4	Bidder's Experience - 1	<p>Similar Work - The bidder (whether sole or both members of a consortium jointly) should have experience in supply/installation/maintenance of surveillance project with camera, required accessories and with video analytics in India in the last seven years for a government entity (Urban Local Bodies or State Government or Central Government or PSUs or Government SPVs).</p> <ol style="list-style-type: none"> One similar project with a project value of Rs. 100 Crores or more; or Two similar projects, each with a value of Rs. 62 Crores or more; or Three similar projects, each with a value of Rs. 50 Crores or more. <p>In case of consortium -:</p> <ul style="list-style-type: none"> The lead bidder and consortium partner must collectively meet the total experience requirement specified above. Only projects that match the definition of "similar work" will be considered eligible. When combining (aggregating) experience, only the project values can be added together. 	<p>In case of Completed project – Copy of work order/LOI/LOA And Copy of Signed Contract and Completion/Go-Live/Experience Certificate from client</p> <p>In case of ongoing projects -</p> <p>Copy of work order/LOI/LOA And Copy of Signed Contract and Performance /Go-Live/Experience Certificate from client And Certificate from the client mentioning the amount of physical and financial progress</p> <p>Bidder to submit the project details as per format given in the RFP</p>
5	Bidder's Experience_2	The Bidder (whether sole or both members of a consortium jointly) should have a minimum aggregate experience of supplying/installing, or maintaining at least 1000 IP-based CCTV outdoor cameras across multiple surveillance projects with remote viewing through MPLS/VPN/WAN/GPON/Leased Line, video analytics in India over the last seven years. These projects must have been for government entities such as Urban Local Bodies, State Government,	

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Sr No	Description	Minimum Requirement	Documentary Proof
		Central Government, PSUs, or Government SPVs.	
6	Bidder's Experience_3	<p>The Bidder (whether sole or both members of a consortium jointly) should have experience in supplying/installing/maintaining video analytics solutions for surveillance projects in India over the last seven years. These projects must be for government entities such as Urban Local Bodies, State Government, Central Government, PSUs, or Government SPVs.</p> <p>To qualify under this criterion, the Bidder (sole or any one consortium partner) must have completed at least one project that includes video analytics use cases for Automatic Number Plate Recognition (ANPR).</p> <p>Additionally, the bidder (whether sole or both members of a consortium jointly) should have experience in at least five (5) of the following use cases from multiple projects:</p> <ol style="list-style-type: none"> Debris / Garbage Dumping Encroachment Detection (Time Lapse Comparison) Automatic Number Plate Recognition (ANPR) Vandalism / Property Damage Uncovered Debris in Trucks & Extended Metallic Elements Over Height Vehicle / Unauthorized Vehicle Entry Spitting Detection / Littering Detection Detection of Cattle on Road Detection of Wrong Side Driving Detection of More Than Two Passengers on Two-Wheeler (Triple Riding) Blocking Free Left / Stalled Vehicle Detection People Count / Overcrowd Detection Unattended Object Detection / Object Tracking Detection of Water Logging Facial Recognition 	

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Sr No	Description	Minimum Requirement	Documentary Proof
		xvi. Red Light Violation / Stop Line Violation Detection (RLVD) xvii. Detection of Mobile Phone Usage While Driving xviii. Not Wearing Seat Belt xix. No Helmet Detection	
7	Certification	The Bidder (whether sole or any member of consortium), should possess the certifications below valid at the time of bidding): i. CMMI Level 3 ii. ISO 27001:2013 for Information Security Management Systems The Bidder (whether sole or all members of consortium including lead bidder), should have valid ISO 9001:2008/ISO 9001:2015 certification	Copies of valid certificates in the name of the bidding entity
8	Manpower	The Bidder (whether sole or lead bidder of consortium), should have at least 50 technical employees on its payroll at the time of bidding, having experience in surveillance project/software design/development testing/maintenance activities.	Certificate from HR head confirming compliance.
9	OEM Partnership	i. The bidder should have own or should have assured access to the required items asked in this RFP document in full working order, and must demonstrate that, based on known commitments, they will be available for use in the proposed contract. ii. OEM Partnership Certificate – SI should submit Authorization letter from OEM (camera, server, storage, networking, required software and other items mentioned in BoQ of this RFP). iii. SI should submit a certificate from OEM ensuring technical support as well as supply of the required product / spares for entire contract duration. iv. SI should submit a certificate from OEM confirming presence in India either directly or through channel partner(s) as on the date of release of tender. v. SI should submit a certificate from OEM confirming compliance with performance criterion described in	Authorization Letter from OEM at company's letter head signed by authorized signatory in format described in RFP along with necessary copy of certificate for Network Service Provider

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Sr No	Description	Minimum Requirement	Documentary Proof
		<p>this tender.</p> <p>vi. SI should submit a certificate from OEM confirming they have not been blacklisted by any State / Central Government Department or Central/State Public Sector.</p> <p>vii. The Network Service Provider should provide MPLS Network connectivity. The operator must have a valid license from Dept. of Telecom (DoT), GoI.</p> <p>viii. The bidder should submit declaration on OEM letterhead with respect to IPR and MAC address.</p> <p>Note: The IPR certificate should be submitted only for the specific make and model of the products quoted in the unpriced Bill of Material.</p> <p>The MAC address certificate should be submitted only for the specific make and model of the products quoted in the unpriced Bill of Material. For example, if the camera listed in the BOM is of make ABC and model: 123, then the MAC certificate must correspond specifically to make ABC and model 123.</p>	
10	Mandatory Undertaking	<p>The Bidder (whether sole or both partner of consortium) and OEMs, should:</p> <p>4.1 Not have been blacklisted by Central Government / Any State Government / PSU in India as on the date of bid submission.</p> <p>4.2 Not be insolvent, in receivership, bankrupt or being wound up, not have its affairs administered by a court or a judicial officer, not have its business activities suspended and must not be the subject of legal proceedings for any of the foregoing reasons.</p> <p>4.3 The SI should have at least one office in Gujarat and preferably support centres/logistics for the entire state. If the SI/SI or consortium member is not having any office in Gujarat, then</p>	Self-declaration duly signed and stamped by the authorized signatory in in format described in RFP.

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Sr No	Description	Minimum Requirement	Documentary Proof
		<p>SI should submit a letter of undertaking to open the office in Gujarat within 45 days from the date of issue of work order if he is awarded the work</p> <p>4.4 Not have their directors and officers convicted of any criminal offence related to their professional conduct or the making of false statements or misrepresentations as to their qualifications to enter into a procurement contract within a period of three years preceding the commencement of the procurement process or not have been otherwise disqualified.</p> <p>4.5 Submit declaration on OEM letterhead with respect to IPR as per format given in RFP</p>	
11	Bidder's office	The Bidder (whether sole or both partner of consortium), should have an office in Gujarat or should set up offices in Gujarat in 45 days from the award of Work Order	Copies of any two of the following: Property Tax/ Electricity/ Telephone Bill/ VAT/ CST Registration / Lease agreement. Or Undertaking to open Office in Gujarat
12	Land Border	The lead bidder, consortium partner and OEMs are required to submit the undertaking as per the Department of Expenditure, Government of India guidelines on procurement dated 23.07.2020 to confirm that, all the quoted product Make under this bid are not from a country which shares a land border with India or, of if from such a country, quoted product/OEM have been registered with competent authority.	The lead bidder & consortium partner is required to submit the undertaking for all quoted products and for OEM on their company letter head

Note:

- The age of the project will be counted from the date of the Go-Live/Completion up to the RFP release date.
- If the project went live more than 7 years ago as on RFP release date and is currently in the Operation & Maintenance phase, it will be considered. However, the relevant documents to be submitted to ascertain the claim.
- Only the relevant project value (i.e., camera, accessories, video analytics, and similar items from the BoQ of this RFP) will be considered during evaluation.

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- iv. Experience with PUC and Government SPVs will be considered only if they are the end clients.
- v. The SI or consortium members may include prior experience of projects where they were part of a consortium or joint venture, provided these projects meet the similar work definition and project value requirements, supported by client documents.
- vi. OEM experience will not be considered for eligibility.
- vii. Any Work Order issued by a successful bidder to a third-party subcontractor will not be considered for qualification under this criterion, even if the end client is a government entity.
- viii. The lead bidder and all consortium partners will be jointly and severally responsible for project execution and must individually demonstrate relevant experience as per the Pre-Qualification criteria.
- ix. For ongoing projects, only those with more than 50% physical or financial progress of the awarded work will be considered.
- x. Completed Project means all deliverables are supplied, installed, tested, commissioned, and accepted by the client with a 100% Go-Live/Completion Certificate.
- xi. The Bidder must attach valid documents in support to their Pre-Qualification as mentioned above. Without proper supporting documents, the bid proposals are liable to be rejected.
- xii. For all cited projects under Bidder's experience criteria; the Bidders shall have to submit work order with complete BoQ, contract agreement, go-live / completion certificate, proof for O&M as documentary evidence against each of the project.
- xiii. SCADL reserves the right to check/validate the authenticity of the information provided in the bidder's proposal.
- xiv. The bidder needs to provide contact detail (email & phone number) of senior official from end client to verify WO / citation details.
- xv. SCADL (or the nominated party) reserves the right to check/validate the authenticity of the information provided in the Pre-qualification and Technical evaluation criteria.
- xvi. For all resource CVs provided under manpower details, profiles will only be considered if they are on company payrolls as of the bid submission date.
- xvii. The Bid Evaluation Committee (BEC) may invite each bidder to make a presentation may require written clarifications from the bidders to clarify ambiguities and uncertainties arising out of the evaluation of the Bid documents.
- xviii. The bidder should submit authorization certificate of Original Equipment Manufacturer (OEM) (or multiple OEMs) specific to the bid. The bidder should have a support agreement/arrangement for services including supply of spare parts etc. which includes the post-sales support activities for the entire project period.
- xix. The bidder cannot be part of multiple bids. Only an OEM / Product Company can be part of multiple consortiums (if the firm is not participating as a Lead Bidder), if bidding ONLY as the Solution provider for the respective Product / Solution.
- xx. In case of any change in eligibility criteria during bidding stage, it is bidder's responsibility (all consortium partners in case of consortium) to bring any change to Purchaser notice if there is a change in the status of the bidder during bidding stage, with reference to any of the above-mentioned criteria for eligibility.
- xxi. If the project is ongoing and has not completed the implementation phase or has not been declared Go-Live, then in that case the mandatory minimum components mentioned in the criteria need to be operational and the bidder has to share the completion certificate of the claimed completed component from the client.
- xxii. If the cited work was executed by a consortium member as part of a consortium, the claimant must provide the work order issued by the lead consortium member. Supporting documents must clearly outline the specific scope of work undertaken by the claimant. Additionally, a Go-live certificate or completion certificate must be submitted to validate project execution.
- xxiii. In case of a consortium, applicant consortia shall have a valid Memorandum of Understanding (MoU) / Consortium Agreement among all the members signed by the CEO / Country Head / Authorized Signatories of the companies dated prior to the submission of the bid. The MoU / Consortium Agreement shall clearly state the composition of the consortium who shall be the Lead bidder, the complete description of the partner and Roles & Responsibilities of the partner.

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The consortium bid submitted without valid MoU / Consortium Agreement shall be treated as non-responsive. The contract shall be signed with the Lead Bidder with mentioning name of the consortium partner, and the Lead Bidder shall be single Point of Contact for this Project. PBG shall be submitted by the Lead Bidder. The payments for the said project shall be released only in the name of Lead Bidder.

- xxiv. The lead Bidder shall be solely responsible for any failure and liable to the authority for the execution of the entire project / SoW in accordance with the terms & conditions of the bid document and a statement of this effect shall be included in the MoU / Consortium Agreement/ Contract.
- xxv. In case at any point of time after issue of WO to successful bidder, the details provided are found to misrepresent any facts or documents or any piece of information provided, then bidder, consortium partner, OEM(s) shall be disqualified and blacklisted. In such situation, the successful bidder will have to provide the new solution of new OEM as per the requirement of the RFP at no extra price within one month subject to levy of a penalty of 5% of the total project cost of respective items of BOQ for concerned OEM.
- xxvi. Bidders are required to submit documentary evidence of their projects, performance, and experience issued by both the contracting client and the end client to enable assessment of the actual performance of the bidder, consortium partners, and OEMs on this project. During evaluation, AMC/SCADL may request additional documents from bidders if such evidence is not included in their proposals, and bidders must submit these within the stipulated timeframe.
- xxvii. During the evaluation of the Bid, SCADL reserves the right to enquire / seek additional documents / justification to further understand the Bidder's submission against various qualification criteria. Such communication shall be at the discretion of SCADL. No claim from any of the Bidder in this regard shall be entertained for any of the reasons(s) pertaining to the bid evaluation.

5. Revised Technical Qualification (TQ) Evaluation Criteria

As part of the bid evaluation process the Bid Evaluation Committee (BEC) appointed by AMC/SCADL shall evaluate the technical capability of bidder and proposed solution. The evaluation categories would be divided into various sub-categories, as broadly mentioned below:

Sr. No.	Evaluation Criteria	Sub-Criteria	Max. Marks	Marking Guidelines
1	Similar Work Experience of Bidder - 1	<p>The bidder (whether sole or both members of a consortium jointly) should have experience in the supply, installation, or maintenance of surveillance projects with a minimum value of Rs. 50 Cr, including cameras, required accessories, and video analytics, in India over the last seven years for a government entity (Urban Local Bodies, State Government, Central Government, PSUs, or Government SPVs).</p> <p>Under this criterion, multiple similar projects will be considered for value aggregation</p> <p><i>(All conditions, including the requirement for supporting documents defined in the PQ table, apply to eligible projects. Bidders must submit a self-declaration of marks obtained under this criterion on their letterhead, along with documentary evidence issued by the contracting client clearly specifying compliance)</i></p>	20	<ul style="list-style-type: none"> Similar projects with cumulative values of more than 100 Cr: 5 Marks Similar projects with cumulative values of: More than 200 Cr: 10 Marks Similar projects with Cumulative values of More than 300 Cr: 15 Marks Similar projects Cumulative values of More than 400 Cr: 20 Marks
2	Similar Work Experience of Bidder - 2	<p>The bidder (whether sole or both members of a consortium jointly) must have experience in successfully completed video analytics solutions for surveillance projects in India within the last seven years, with Go-Live certificates issued by the client. These projects should have been executed for government entities such as Urban Local Bodies, State Government, Central Government, PSUs, or</p>	20	<ul style="list-style-type: none"> 5 Use Cases - 5 Marks 6-10 Use Cases - 10 Marks 11-15 Use Cases - 15 Marks 16-19 Use Cases - 20 Marks

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Sr. No.	Evaluation Criteria	Sub-Criteria	Max. Marks	Marking Guidelines
		<p>Government Special Purpose Vehicles (SPVs).</p> <p>Marks will be allotted based on the bidder's prior experience for the maximum number of use cases from the list below, demonstrated across multiple projects.</p> <ol style="list-style-type: none"> Debris / Garbage Dumping Encroachment Detection (Time Lapse Comparison) Automatic Number Plate Recognition (ANPR) Vandalism / Property Damage Uncovered Debris in Trucks & Extended Metallic Elements Over Height Vehicle / Unauthorized Vehicle Entry Spitting Detection / Littering Detection Detection of Cattle on Road Detection of Wrong Side Driving Detection of More Than Two Passengers on Two-Wheeler (Triple Riding) Blocking Free Left / Stalled Vehicle Detection People Count / Overcrowd Detection Unattended Object Detection / Object Tracking Detection of Water Logging Facial Recognition Red Light Violation / Stop Line Violation Detection (RLVD) 		

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Sr. No.	Evaluation Criteria	Sub-Criteria	Max. Marks	Marking Guidelines
		<p>xvii. Detection of Mobile Phone Usage While Driving</p> <p>xviii. Not Wearing Seat Belt</p> <p>xix. No Helmet Detection</p> <p>All use cases with Video summarization functionality <i>(All conditions, including the requirement for supporting documents defined in the PQ table, apply to eligible projects. Bidders must submit a self-declaration of marks obtained under this criterion on their letterhead, along with documentary evidence issued by the contracting client clearly specifying compliance)</i></p>		
3	OEM Capability - 1	<p><u>OEM for Cameras</u></p> <p>The bidder must submit an OEM partnership certificate in the format specified in the RFP. The proposed OEM should have experience in supplying fixed bullet cameras for surveillance projects in India within the last seven years, with Go-Live certificates issued by the client. These projects should have been executed for government entities such as Urban Local Bodies, State Governments, Central Government, PSUs, or Government Special Purpose Vehicles (SPVs).</p> <p>Marks will be allotted based on the OEM's prior aggregate experience demonstrated across multiple projects.</p> <p><i>(All conditions, including the requirement for supporting documents defined in the PQ table, apply to eligible projects. Bidders must submit a self-declaration of marks obtained under this criterion on their letterhead, along with documentary evidence issued</i></p>	15	<ul style="list-style-type: none"> ▪ 1000-2000 cameras – 5 Marks ▪ 2001-3000 cameras – 10 Marks ▪ 3100 or more cameras– 15 Marks

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Sr. No.	Evaluation Criteria	Sub-Criteria	Max. Marks	Marking Guidelines
		<i>by the contracting client clearly specifying compliance)</i>		
4	OEM Capability - 2	<p><u>OEM – Technical Capability</u> It is mandatory to submit compliance of MAF (Manufacturer Authorization Form) as per RFP format -All type of IP CCTV Camera, Network Video Recorder, Edge Level Industrial Grade Switch, Network Service Provider, Data Center Service Provider, Switches, Routers, Active IT Security Components (Firewall, IPS, Anti DDOS etc.), Servers, Service Load Balancer, Active Storage, UPS, Critical IT Applications (VMS, EMS, All Analytics Applications, Antivirus, Computer aided dispatch).</p> <p>Not Submitting the MAF may lead to zero marks under this criteria.</p> <p>Bidder is expected to propose technical solutions and products which has Maturity and Global standings / Solutions proposed as per relevant reports from Gartner / IDC (Top 5 / Leader quadrant). This capability will be evaluated through the documents submitted by the bidder and presentation made to the bid evaluation committee.</p>	5	<ul style="list-style-type: none"> Submission of MAF from proposed OEMs as per RFP requirement – 5 Marks <p>(Marks will be deducted proportionately for missing MAFs.)</p>
4	On-Field Testing – Proof of Concept	As part of bid evaluation, the PQ qualified bidders need to undertake a demonstration cum seven days and night pilot of Proof of Concept (PoC) & Demonstration of Offered Solution and Products. PoC will be conducted in day and nighttime.	30	<ol style="list-style-type: none"> Automatic Number Plate Recognition (ANPR)-2 Marks Red Light Violation / Stop Line Violation Detection (RLVD)-2 Marks Detection of Mobile Phone Usage While Driving-1 Marks Not Wearing Seat Belt-1 Marks No Helmet Detection-1 Marks Detection of Wrong Side Driving-1 Marks

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Sr. No.	Evaluation Criteria	Sub-Criteria	Max. Marks	Marking Guidelines
				7. Detection of More Than Two Passengers on Two Wheeler (Triple Riding)-1 Marks 8. Blocking Free Left / Stalled Vehicle Detection-1 Marks 9. Uncovered Debris in Trucks & Extended Metallic Elements - 1 Marks 10. Over Height Vehicle / Unauthorized Vehicle Entry-2 Marks 11. Spitting Detection / Littering Detection-1 Marks 12. Detection of Cattle on Road-1 Marks 13. People Count / Overcrowd Detection-2 Marks 14. Vandalism / Property Damage-2 Marks 15. Unattended Object Detection / Object Tracking-2 Marks 16. Encroachment Detection (Time Lapse Comparison)-2 Marks 17. Detection of Water Logging-2 Marks 18. Facial Recognition-4 Marks 19. Debris / Garbage Dumping – 1 Mark All use cases with Video summarization functions.
5	Presentation	The SI shall prepare a presentation on the technical proposal to be submitted for this project. The Bid Evaluation Committee will evaluate the presentation.	10	<ul style="list-style-type: none"> Integration with SASA 1.0 project – 2 Mark Strategy to maintain all the SLAs during Post Implementation Period – 2 marks Project plan with Timelines – 2 Mark Risk Mitigation Plan - 2 mark Quality of Response against queries raised by Bid Evaluation Committee– 2 Mark
Total Marks			100	
Passing Marks			70	

On-Field Testing – Proof of Concept

As part of the bid evaluation process the Bid Evaluation Committee (BEC) appointed by AMC/SCADL

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shall evaluate the proposed solution of SIs as per the Criteria defined in following table. The participating SIs will have to submit testing report subject to the scrutiny by SCADL / AMC officials. The on-site field test shall be carried out for min seven (7) days in the presence of SCADL / AMC officials to validate the submitted test reports. All charges for such on-site testing shall have to be borne by the bidder. All bidders will have to prove that the entire ecosystems of the proposed solution are complying with the mentioned Technical and Functional specifications as mentioned in the RFP.

The bidder is expected to install proposed solutions at minimum two (2) locations suggested by AMC/SCADL and at ICCC in Paldi. The exact locations would be communicated to the bidders during the On-Field testing process. The alert, reports to be generated and should reach ICCC and Mobile App. All the parameters mentioned in the On-Field Test criteria, Technical and Functional specifications are to be attained in totality, and any deviation / non-compliance, in the mentioned specifications will lead to the disqualification of the bidder. Safety & security of products will be sole responsibility of bidder; AMC/SCADL will not be responsible for any damage of product during pilot.

Sr. No.	<i>On-Field Testing – Proof of Concept</i>
1.	All the data processing should happen on Edge processing-based controller (either inbuilt with camera or accessory to camera)
2.	Use Cases -: <ul style="list-style-type: none"> i. Debris / Garbage Dumping ii. Encroachment Detection (Time Lapse Comparison) iii. Automatic Number Plate Recognition (ANPR) iv. Vandalism / Property Damage v. Uncovered Debris in Trucks & Extended Metallic Elements vi. Over Height Vehicle / Unauthorized Vehicle Entry vii. Spitting Detection / Littering Detection viii. Detection of Cattle on Road ix. Detection of Wrong Side Driving x. Detection of More Than Two Passengers on Two Wheeler (Triple Riding) xi. Blocking Free Left / Stalled Vehicle Detection xii. People Count / Overcrowd Detection xiii. Unattended Object Detection / Object Tracking xiv. Detection of Water Logging xv. Facial Recognition xvi. Red Light Violation / Stop Line Violation Detection (RLVD) xvii. Detection of Mobile Phone Usage While Driving xviii. Not Wearing Seat Belt xix. No Helmet Detection
3.	IP based cameras with all required accessories and hardware shall be installed by the bidders to demonstrate the above-mentioned use cases.
4.	Internet, connectivity, electricity will be responsibility of the bidder.
5.	Bidder may decide the solution design including hardware and software components to demonstrate the best capability to the Bid Evaluation Committee.
6.	Bidder shall demonstrate all components mentioned in the scope of work of this RFP as per the expected outcome and result envisaged in the RFP.
7.	Existing traffic junctions/POS, bridges, and city entry and exit points will be provided to all participating bidders for the installation of field devices. The results of the pilot projects will be compared against each other as well as with the outcomes from the current operational surveillance infrastructure installed by SCADL.

6. OEM Selection criteria

OEM Eligibility criteria for various key components are given in the table below. OEM would need to submit the self-certification. If required, the Department may ask for additional supporting documents for compliance to these criteria.

Sr. No.	Component	Criteria for OEM
1	Cameras (ANPR, PTZ, Fixed Bullet Cameras)	<ul style="list-style-type: none"> i. Should have a registered office in India for past more than 3 years as on RFP release date. ii. The MAC address of the IP devices must be registered in the name of OEM. iii. Minimum supply and installation base of 70,000 IP-based cameras in India or globally as on bid submission date. iv. The OEM should have its own RMA setup to fulfil its warranty, service, AMC commitments (or via authorized service partner/distributor) in India as on the bid submission date. v. The OEM should have valid ISO 9001 and ISO 27001 certifications. vi. The OEM should not have been debarred/blacklisted as per the order by Honourable Court of India (High Court/Supreme Court/Govt. of India/Smart City SPV or any other govt. department across India). Also, there must not be any criminal case logged by any Government authority in any court in last 7 years as on the bid submission date. vii. OEM should comply with land border guidelines (Undertaking to be submitted). viii. OEM should have valid STQC certificate for the Cameras to be quoted. If valid STQC certificate for any particular camera is not available at the time of bidding, bidder and OEM can quote that camera with STQC application proof submitted in bid and will have to ensure that valid STQC certificate is obtained before start of supply of camera. ix. OEM must have Return Merchandise Authorization (RMA) setup in India (own/authorized partner/distributor/service Centre) as on date of bid submission (Undertaking required). x. OEM must own IPR or registered design for all offered models (Hardware And Firmware/Software). Must also own source code and be the actual manufacturer, not involved in 3rd-party import/branding, especially from border-sharing countries (Undertaking required). xi. All quoted products must be manufactured in OEM's own/registered unit. ODM, white labelling, or third-party assembly is not allowed. OEM must submit factory details, SMT machine info & license (Undertaking required). xii. ≥ 50,000 cameras supplied as of RFP release date(Undertaking required). xiii. At least one city surveillance project in India (≥ 5,00 cameras) in the last 7 years (citation & undertaking required) as on date of bid submission.
2	Industrial Grade Switch	<ul style="list-style-type: none"> i. ≥ 5,000 industrial grade switches supplied as of RFP release date (Undertaking required).

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Sr. No.	Component	Criteria for OEM
		ii. OEM must have Return Merchandise Authorization (RMA) setup in India (own/authorized partner/distributor/service Centre) as on date of bid submission (Undertaking required). iii. OEM must offer a Product (Along with Model No) which has a valid Mandatory Testing & Certification Of Telecommunication Equipment (MTCTE) issued by the Department of Telecommunications (DOT) under TEC (Telecommunication Engineering Centre). The certification shall be valid as on the date of tender publication (Undertaking required along with valid certification).
3	Servers, Storage, Security Appliances, Network Components (excluding field outdoor switches)	Proposed OEM should feature in Leader's quadrant/challenger's quadrant in either of following: <ul style="list-style-type: none"> - Latest published Gartner Magic Quadrant report for DC and networking components: - Wired LAN Access Infrastructure - DC Networking for Core Switches - Primary Storage - Network Firewalls/UTM/NIPS OR IDC Worldwide Top 5 companies as per revenue market share. Note: For server OEMs being qualified in this PQ either through Gartner or IDC criteria as above, it is mandatory to comply with 40% domestic value requirement as per MeitY policy (F.No.33(1)/2017-IPHW dated 14th September 2017 and amendments).
4	Enterprise Management System	i. Proposed EMS/NMS/Health Monitoring/Helpdesk must align with ITIL framework and be ITIL4 certified for Monitoring & Event Management (Undertaking required). ii. OEM must have Return Merchandise Authorization (RMA) setup in India (own/authorized partner/distributor/service Centre) as on date of bid submission (Undertaking required).
5	Video Management Software	i. $\geq 10,000$ camera licenses supplied as on bid submission date. ii. Should be certified to comply with cybersecurity / VAPT / IT Security etc. under the category of IT or ICT Products / Software Solutions from STQC / UL / TTA / NIST/ AICPA / ETSI / CERT-IN or equivalent auditing body in India / Globally (Undertaking required along with valid certification). iii. OEM must have an RMA setup in India (own or authorized partner/distributor/service Centre) as of RFP release date (Undertaking required). iv. OEM must have a registered office in India (Undertaking required). v. Should be able to integrate
6	UPS	i. Minimum installation base of 10KVA capacity or higher capacity of 100 Online UPS as on bid publication date. ii. OEM should have its own RMA setup (or via authorized service partner/distributor) in India as on bid submission date. iii. OEM should have valid ISO 9001 certification.
7	Video Analytics Solution	i. Successful deployment of Video Analytics solution for minimum 3 projects in last 7 years including for any Indian Government client (Urban Local Body, State Government, Central Government, or PSU). Out of 3, at least 1 project

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Sr. No.	Component	Criteria for OEM
		should have integrated >1000 cameras for traffic/civic use cases/Surveillance. ii. OEM should have valid ISO 9001 / ISO 27001 / CMMI Level 3 or higher certifications.
8	Video Summarization	i. Minimum aggregate installation base of 100 cameras for video summarization licenses in last 7 years from RFP release date.

7. Evaluation Process

1. Stage 1: Pre-Qualification Evaluation

- i. AMC/SCADL shall validate the - “RFP Document fee & Bid Security/Earnest Money Deposit (EMD)”.
- ii. AMC/SCADL shall open the bid and check the SI’s eligibility as per the “Pre-Qualification Criteria”. Each of the Pre-Qualification condition mentioned in above Section is MANDATORY. In case, the SI does not meet any one of the conditions, the SI shall be disqualified.
- iii. Technical and Financial bids for those SIs who don’t pre-qualify will not be opened.

2. Stage 2: Technical Evaluation

- “Technical bid” will be evaluated only for the SIs who succeed in Stage 1.
- AMC/SCADL will review the technical bids of the short-listed SIs to determine whether the technical bids are substantially responsive. Bids that are not substantially responsive are liable to be disqualified at Authority’s discretion.
- SIs will be asked to give demonstration/Pilot (as per section 2.2 of RFP) of the proposed product & solution to AMC/SCADL as per the use cases that shall be shared with the SIs who qualify the Pre-Qualification Stage.
- It is mandatory to participate in pilot & demonstration during bid evaluation, non-compliance may lead to rejection of bid.
- The SIs' technical solutions proposed in the bid document shall be evaluated as per the requirements specified in the RFP and technical evaluation framework as mentioned in above Section.
- Each Technical Bid will be assigned a technical score out of a maximum of 100 marks. Only the SIs who get an Overall Technical score of 70% or more in the Technical Evaluation Framework as given in above Section will qualify for financial evaluation stage. Failing to secure minimum marks shall lead to technical rejection of the Bid.
- Technical bids of the SIs qualifying in the Pre- Qualification Criteria will be opened and will also be invited for doing the technical presentation.

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3. Stage 3: Final Evaluation

- i. Evaluation criteria proposed to be adopted will be Quality cum Cost Based System (QCBS) where Technical Bid Score will get a weightage of 70% and Commercial Bid Score a weightage of 30%.

The bidder would be technically evaluated out of 100 marks. All the bidders who secure overall minimum of 70% (70 Marks out of 100 across all the components together) will be considered as technically qualified. Technical score of all bidders will be calculated on the basis of the following formula:

“Technical Score of bidder (TS) = Technical Marks received by the bidder x 70%”

The Bid having the Lowest Commercial Quote shall be termed as the Lowest Evaluated Bid and will be awarded 100 marks. Commercial score of all the other bidders will be calculated on the basis of the following formula:

“Commercial score of bidder (CS) = Commercial Quote of the lowest bidder x 100 x 30%

Commercial Quote of the bidder”

Final Score of the bidder (FS): Final Score of each bidding party will be computed by adding the technical score and Commercial Score on the basis of the following formula:

“Total Score (ST) = TS + CS”

The bidder whose bid has secured the “Highest Total Score (ST)” out of 100 as per above evaluation will be considered as best evaluated Bid.

In case of a tie where two or more bidders achieve the same highest overall score, the bidder with the higher technical score will be invited first for negotiations by the AMC.

AMC is not bound to accept the best-evaluated bid or any bid and reserves the right to accept any bid, wholly or in part.

Example demonstrating the calculation of Technical Score and Commercial Scores is provided below:

Bidder	Marks Received by bidder	Calculations	Technical Score of bidder (TS)
Bidder 1	88	88*70%	61.6
Bidder 2	90	90*70%	63
Bidder 3	80	80*70%	56
Bidder 4	95	95*70%	66.5

Bidder	Commercial Quote Provided by Bidder after calculating Capex and Opex (As Above)	Calculation of commercial score	Commercial Score of Bidder (CS)
Bidder 1	110	(110/110)*100*30%	30
Bidder 2	140	(110/140)*100*30%	23.57

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Bidder	Commercial Quote Provided by Bidder after calculating Capex and Opex (As Above)	Calculation of commercial score	Commercial Score of Bidder (CS)
Bidder 3	160	$(110/160)*100*30\%$	20.63
Bidder 4	130	$(110/130)*100*30\%$	25.38

Total Score for each bidder

Bidder	Technical Score (TS)	Commercial Score (CS)	Total Score
Bidder 1	61.6	30.0	91.6
Bidder 2	63.0	23.57	86.57
Bidder 3	56.0	20.63	76.63
Bidder 4	66.5	25.38	91.88

The bidder with the highest final score shall be treated as the best evaluated Bid. In the above example, Bidder 4 will be treated as best evaluated Bid.

- i. AMC is not bound to accept the best-evaluated bid or any bid and reserves the right to accept
- ii. any bid, wholly or in part.
- iii. The bidder must be careful while filling the price bid at nProcure the quoted CAPEX cost shall not be more than 60% of total project cost. Non-compliance to this clause may lead to disqualification.
- iv. The commercial evaluation will be done exclusively of taxes. However, the bidder is expected to provide the tax components in commercials. The payment of taxes to the selected bidder will be done on actual/prevaling rates. The commercial bid evaluation will be done exclusively of taxes only. If any duties are applicable to the product the same will be considered for commercial evaluation
- v. All the technically qualified SIs will be notified to participate in Financial Bid opening process.
- vi. The Financial bids for the technically qualified SIs shall be opened on the notified date and time. They will be reviewed to determine whether the financial bids are substantially responsive or not. Bids that are not substantially responsive are liable to be disqualified at Authority's discretion.
- vii. Financial Bids that are not as per the format provided in the RFP shall be liable for rejection.
- viii. If successful bidder refuses to sign the agreement, undertake the work and fails to submit the Performance Bank Guarantee (PBG) and align the agreement as per the timelines and requirement defined in this RFP, AMC/SCADL may consider to invite second highest score obtained bidder for negotiations. In this case, L2 SI will be asked to match the prices of L1 SI.
- ix. Further, AMC shall be entitled to deduct tax at source, or any other taxes/ cess as may be applicable.
- x. The Commercial Bids of only the technically qualified bidders will be opened for evaluation.
- xi. The bidder achieving the highest score (ST) will be invited for negotiations to award the contract.
- xii. Arithmetical errors: If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If the Bidder does not accept the correction of the errors, its bid will be rejected. If there is a discrepancy between words and figures, the amount in words will prevail

8. Commercial Bid Format

The Bidder shall include, within the Technical Bid, a dedicated section listing any additional items, sub-components or accessories that are required to deliver the complete solution as defined in the RFP and as revised through this Corrigendum. Such additional items shall be included only for the purpose of disclosure and technical completeness. The Bidder shall ensure that the financial cost of all such items is fully incorporated in the Financial Bid. No additional payment shall be made by SCADL for any item, component or service that is required for successful completion of the solution but not explicitly priced by the Bidder in the Financial Bid.

The Bidder shall propose an appropriate and complete solution that meets the functional outcomes and performance requirements envisaged in the RFP. If any component, integration, accessory, licence, hardware or software item is inadvertently omitted by the Bidder in the Technical Bid but is required for the Bidder's proposed solution to function correctly during the entire project duration, then the Bidder shall be responsible for providing such item without any extra cost to SCADL. Under no circumstances shall SCADL be liable to make payments beyond the cost quoted in the Financial Bid.

The Bill of Quantities has been updated to match the revised scope in Corrigendum-1. The BOQ also reflects the updated analytics, integration needs and edge-based design approach defined in the corrigendum. This revised BOQ replaces the earlier version and should be treated as design-based, with final allocation to be confirmed after joint site surveys.

Quantities shown in the tender are approximate and no claim shall be entertained for quantities of work executed being either more or less than those entered in the tender of estimate.

It is **mandatory** that the bidder maintains a **minimum price ratio of 60:40 between CAPEX and OPEX**, respectively, throughout the quoted project cost. Specifically:

- The total **CAPEX cost shall not exceed 60%** of the total project cost quoted by the bidder.
- Failure to maintain this CAPEX:OPEX ratio will be considered a material deviation and **may lead to rejection of the entire proposal**.
- The bidder must clearly specify the CAPEX and OPEX components separately in the financial bid, demonstrating compliance with this ratio.
- Any variations or modifications after bid submission affecting this ratio must be approved by AMC in writing.

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8.1.Capital Expenditure (CAPEX)

Project Name: Selection of Implementation Agency for SITC, Operation, and Maintenance of Surveillance System in Ahmedabad City Safe and Secure Ahmedabad (SASA II) (RFP No: SCADL_RFP_25-26_04)							
CAPEX - Components (One Time Cost)							
Sr. No.	Item Name	Description	Qty	Unit	Unit Rate (in Rs. without GST)	Total Amount (in Rs. without GST)	Total Amount (in Rs. with GST)
CAPEX SCHEDULE A: EDGE DEVICES							
A1 – CAMERAS							
1	Fixed Bullet IP Camera	4MP H.265 Varifocal 2.8-12mm WDR 120dB IR 50m IP65 IK10 256GB SD PoE ONVIF S/G/T/M	1,750	Nos			
2	ANPR Camera	4MP H.265 5-50mm P-Iris WDR 120dB 50/60fps IP65 IK10 256GB SD PoE Dual-Purpose	2,028	Nos			
3	PTZ Camera 4MP	4MP H.265 25x Zoom IR 200m 360 Pan IP65 IK10 256GB SD PoE++ Auto-Tracking	1,500	Nos			
	Sub-Total A1						
A2 – POLES & GANTRIES							
4	Camera Pole 6m GI	Hot-Dip GI MS 1.5-2.5m Cantilever IS:2629/IS:2713	1,500	Nos			
5	Camera Pole 8m GI	Hot-Dip GI MS 2.5-3.5m Cantilever	250	Nos			
6	Camera Pole 10m GI	Hot-Dip GI MS 3.5m+ Cantilever Heavy-Duty Multi-Arm	17	Nos			
7	Gantry Structure Multi-Lane	Hot-Dip GI 3-6m Span Multi-Camera Mount	88	Nos			
8	Additional Cantilever Arms	1.5-3.5m Hot-Dip GI	200	Nos			
9	RCC Foundation	Excavation RCC Concreting Anchor Bolts	1,855	Nos			
	Sub-Total A2						
A3 – JUNCTION BOXES							

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Sr. No.	Item Name	Description	Qty	Unit	Unit Rate (in Rs. without GST)	Total Amount (in Rs. without GST)	Total Amount (in Rs. with GST)
10	Outdoor Junction Box	CRCA 1.2mm IP55 Rain Canopy Tamper Sensor	1,855	Nos			
11	JB Internal Components Kit	DIN Rail PDU SPD Cable Glands Bus Bar	1,855	Nos			
	Sub-Total A3						
A4 – EDGE NETWORK EQUIPMENT							
12	Industrial L2 Switch 8P PoE	8xGE PoE + 2 SFP Managed IP40 DIN Rail SNMP v3	355	Nos			
13	Media Converter GE to SM Fiber	10/100/1000 SC/LC 20km Industrial	355	Nos			
14	LIU Line Interface Unit	6/12 Port Splice Tray	355	Nos			
15	SFP Module 1G SM 20km	1000Base-LX LC	710	Nos			
16	Patch Cords Cat6A	Shielded Assorted	2,500	Nos			
17	Patch Cords Fiber SM	SC/LC SM 3m	710	Nos			
	Sub-Total A4						
A5 – FIELD UPS & POWER							
18	Field UPS 1 KVA 4-hr	Online Pure Sine Wave SNMP VRLA	250	Nos			
19	Field UPS 2 KVA 4-hr	Online Pure Sine Wave SNMP VRLA	105	Nos			
20	SPD Type 2	Surge Protection per location	355	Nos			
	Sub-Total A5						
A6 – CCTV SIGNAGE							
21	Signage Type A/B 8in/12in	Aluminium Retro-Reflective Bilingual En+Guj	1,500	Nos			
22	Signage Type C/D 12in-24in	Larger Prominent Locations	355	Nos			
	Sub-Total A6						
A7 – INSTALLATION, TESTING & COMMISSIONING							
23	Installation Testing and Commissioning including civil work, reinstatement, Labour, Trenching	All edge components per location	1,855	Nos			

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Sr. No.	Item Name	Description	Qty	Unit	Unit Rate (in Rs. without GST)	Total Amount (in Rs. without GST)	Total Amount (in Rs. with GST)
	Ducting Fiber, Power Cable						
	Sub-Total A7						
	TOTAL SCHEDULE A (CAPEX)						
SCHEDULE B: PRIMARY DATA CENTRE (CAPEX)							
B1 – SERVERS							
24	Application Server	2xXeon 16C 128GB 2x480GB SSD Dual PSU 2U	2	Nos			
25	Database Server	2xXeon 16C 256GB 2x480GB SSD FC HBA Dual PSU	3	Nos			
26	Recording/VMS Server	2xXeon 16C 128GB 2x480GB SSD FC HBA Dual PSU	8	Nos			
27	Analytics/GPU Server	2xXeon 24C 256GB 4xNVIDIA A30 2x480GB SSD Dual PSU 4U	11	Nos			
28	Management/AD Server	2xXeon 16C 128GB 2x480GB SSD Dual PSU	2	Nos			
29	EMS/NMS Server	2xXeon 16C 128GB 2x480GB SSD Dual PSU	2	Nos			
30	Backup Server	2xXeon 16C 128GB 2x480GB SSD + 4x4TB HDD	2	Nos			
31	Antivirus Server	2xXeon 16C 64GB 2x480GB SSD 1U	1	Nos			
	Sub-Total B1						
B2 – STORAGE							
32	Primary Storage SAN/NAS	Enterprise Dual Controller NL-SAS RAID6	7	PB usable			
33	SSD Tier Hot Data	NVMe/SSD High IOPS	60	TB			
	Sub-Total B2						
B3 – DC NETWORK							
34	Core Router HA	Enterprise 10G BGP/OSPF VPN	1	Lot			
35	Core Switch L3 HA	48xGE + 10G 2Tbps+ switching	1	Lot			

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Sr. No.	Item Name	Description	Qty	Unit	Unit Rate (in Rs. without GST)	Total Amount (in Rs. without GST)	Total Amount (in Rs. with GST)
36	Aggregation Switch L3	48xGE + 10G	4	Nos			
37	ToR/Access Switch L2	24/48xGE + 10G	8	Nos			
38	Server Load Balancer HA	ADC L4-L7	1	Lot			
	Sub-Total B3						
B4 – CYBERSECURITY (DC)							
39	NGFW HA	10Gbps+ IPS App Control HA	1	Lot			
40	SIEM 5-yr	Log Correlation MITRE ATT&CK	1	Lot			
41	Anti-DDoS HA	Inline 4x10G	1	Lot			
42	WAF HA	OWASP Top 10 SSL Card	1	Lot			
43	Other Cybersecurity	SSL VPN NAC PKI	1	Lot			
	Sub-Total B4						
B5 – DC INFRASTRUCTURE							
44	42U Server Racks + PDU	Cable Mgmt. Blanking Panels	15	Nos			
45	Online UPS 100 KVA N+1	Double Conversion 4-hr Battery	1	Lot			
46	DG Set 125 KVA	ATS CPCB-II compliant	1	Nos			
47	Precision AC N+1	Downflow 20-25C	1	Lot			
48	Fire Suppression	Novec 1230 VESDA	1	Lot			
49	Access Control + EMS + Cabling + Raised Floor + Civil	All remaining DC infra	1	Lot			
	Sub-Total B5						
	TOTAL SCHEDULE B (CAPEX)						
SCHEDULE C: SOFTWARE LICENSES							
50	VMS License Perpetual	Enterprise per camera SCADL ownership	5,278	Nos			
51	EMS Suite NMS with Helpdesk and SLA monitoring	ITIL4 certified	1	Lot			

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Sr. No.	Item Name	Description	Qty	Unit	Unit Rate (in Rs. without GST)	Total Amount (in Rs. without GST)	Total Amount (in Rs. with GST)
	TOTAL SCHEDULE C (CAPEX)						
SCHEDULE D: NDR & CYBERSECURITY (CAPEX)							
52	NDR Complete Solution	DC Console + 3 Sensors + 6 TAPs + 5-yr Software	1	Lot			
	TOTAL SCHEDULE D (CAPEX)						
SCHEDULE E: SOLAR POWER SYSTEM (CAPEX)							
53	Solar Power System Complete	Mono Panels 600W-1KW + Li-Ion 72-hr + MPPT + Inverter + Anti-Theft Cage + IoT Monitoring	500	Nos			
	TOTAL SCHEDULE E (CAPEX)						
CAPEX SUMMARY		Total (In Rs. Without GST)	Total (In Rs. With GST)				
54	Edge Devices (5278 Cameras Poles JB Switches UPS Installation)						
55	Primary Data Centre						
56	Software Licenses VMS + EMS + Supporting						
57	NDR and Cybersecurity						
58	Solar Power 500 locations						
	TOTAL CAPEX						

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8.2. Operational Expenditure

OPEX SCHEDULES (5 YEARS)						
Sr. No.	Item Name	Description	Qty	Unit rate pm	Per year	Total for 5 Years (in Rs. without GST)
SCHEDULE G: CONNECTIVITY (OPEX)						
1	Connectivity: P2MP/MPLS 20 Mbps	MPLS Connectivity (Lease line connectivity - tentative locations Bridges (17*3)+Entry/Exit 88+Riverfront 250+750 AMC Plots and payment will be done based on actual consumption and location requirement)	100			
2	Connectivity: P2MP/MPLS 50 Mbps	MPLS Connectivity	1			
3	Connectivity: P2MP/MPLS 80 Mbps	MPLS Connectivity	1			
4	Connectivity: P2MP/MPLS 100 Mbps	MPLS Connectivity	1			
5	M2M SIM Data Plan	1 SIM per camera per month (i.e. 3 SIM per location for connectivity of 1 PTZ and 2 Bullet IP camera) requirements in 50% of the AMC plot i.e. 750 no. of locations and payment will be done based on actual consumption and location requirement)	100			
TOTAL SCHEDULE G						
SCHEDULE H: ELECTRICITY (OPEX)						
6	Edge Electricity	Per location per month	1,855			
TOTAL SCHEDULE H						
SCHEDULE I: VIDEO ANALYTICS – ANNUAL FLAT RATE PER USE CASE (OPEX)						
<p>The Bidder is required to quote an annual license fee for each use case on a lump sum basis, taking into consideration the total project scope of 5,278 cameras along with a 30% additional provision in scope.</p> <p>The use case rates shall be quoted on an annual flat fee basis and not on a per-camera quantity basis. Accordingly, the quoted rate will be payable to the Bidder irrespective of the actual number of cameras deployed or operational under the project.</p>						

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OPEX SCHEDULES (5 YEARS)						
Sr. No.	Item Name	Description	Qty	Unit rate pm	Per year	Total for 5 Years (in Rs. without GST)
7	ANPR Number Plate Recognition	Vehicle plate capture read match database lookup	lump sum			
8	Encroachment Detection	Time-lapse unauthorized construction modification on AMC plots	lump sum			
9	Debris/Garbage Dumping	Unauthorized dumping detection on plots	lump sum			
10	Cattle Detection on Road	Stray cattle detection on road-facing ANPR cameras	lump sum			
11	Vandalism/Property Damage	Fence cutting wall damage property destruction	lump sum			
12	Over-Height/Unauthorized Vehicle	Over-height vehicle detection at bridges	lump sum			
13	Wrong-Side Driving	Vehicles against traffic flow at Entry/Exit and Bridges	lump sum			
14	People Count / Overcrowding	Crowd density monitoring at Riverfront	lump sum			
15	Unattended Object	Suspicious object detection at Riverfront	lump sum			
16	Spitting/Littering	Littering and spitting detection at public areas	lump sum			
	TOTAL SCHEDULE I					
SCHEDULE J: O&M of Edge Devices from CAPEX Schedule: A						
17	O&M of Edge Devices from CAPEX Schedule: A	Preventive, corrective maintenance and upkeep of edge devices	1			
	TOTAL SCHEDULE J					
SCHEDULE K: DC O&M						
18	DC IT Servers+ Storage+ Network +Security+ Infra	Preventive, corrective maintenance and upkeep of DC	1			
	TOTAL SCHEDULE K					
SCHEDULE L: NDR O&M						
19	NDR Solution AMC	Preventive, corrective maintenance and upkeep of NDR	1			

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OPEX SCHEDULES (5 YEARS)						
Sr. No.	Item Name	Description	Qty	Unit rate pm	Per year	Total for 5 Years (in Rs. without GST)
TOTAL SCHEDULE L						
SCHEDULE M: MANPOWER (OPEX)						
20	Network Admin CCNP 8+ Yr	Remuneration of the professional resource	1			
21	System Admin MCSE 8+ Yr	Remuneration of the professional resource	1			
22	NOC Operator + Helpdesk Merged	Remuneration of the professional resource	1			
23	SOC Analyst L1	Remuneration of the professional resource	1			
24	Field Supervisor	Remuneration of the professional resource	1			
25	Field Technician ITI 2+ Yr	Remuneration of the professional resource	1			
TOTAL SCHEDULE M						
OPEX SUMMARY (5 YEARS)						
Sr. No.	Description	Total 5 Years (In Rs. Without GST)	Total (In Rs. With GST)			
26	Connectivity					
27	Electricity					
28	Video Analytics – Annual Flat Rate/Use Case					
29	Edge O&M					
30	DC O&M					
31	NDR O&M					
32	Manpower					
Total OPEX (5 Years)						

8.3. Grand Total

GRAND TOTAL – PROJECT SUMMARY			
CAPEX			
Schedule	Description	Total (In Rs. Without GST)	Total (In Rs. With GST)
A	Edge Devices (5278 Cameras Poles JB Switches UPS Installation)		
B	Primary Data Centre		
C	Software Licenses VMS + EMS + Supporting		

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GRAND TOTAL – PROJECT SUMMARY			
CAPEX			
Schedule	Description	Total (In Rs. Without GST)	Total (In Rs. With GST)
D	NDR and Cybersecurity		
E	Solar Power 500 locations		
	TOTAL CAPEX		
OPEX 5 Years			
Schedule	Description	Total 5 Years (In Rs. Without GST)	Total (In Rs. With GST)
G	Connectivity		
H	Electricity		
I	Video Analytics – Annual Flat Rate/Use Case		
J	Edge O&M		
K	DC O&M		
L	NDR O&M		
M	Manpower		
	Total OPEX (5 Years)		
GRAND TOTAL		Total 5 Years (In Rs. Without GST)	Total (In Rs. With GST)
1	CAPEX		
2	OPEX 5 Years		
	GRAND TOTAL		

8.4. Price Discovery Items

PRICE DISCOVERY ITEMS (NOT in L1 Evaluation)							
Indicative quantities for unit rate discovery only. NOT included in L1 evaluation.							
Junction Components							
Sr. No.	Item	Description	Qty.	Unit	Unit Rate (in Rs. without GST)	Total Amount (in Rs. without GST)	Total Amount (in Rs. with GST)
1	RLVD Lane Camera	4MP 50/60fps ANPR+ Signal Sync IP65	12	Nos			
2	RLVD Evidence Camera	4MP Wide-Angle IP65	4	Nos			
3	FR Camera	4MP/5MP FR-optimized IP65	10	Nos			
4	RLVD Analytics License per yr	Per camera signal enforcement	16	Nos/yr			
5	Speed Detection License per yr	Per camera	4	Nos/yr			
6	FR License per yr	Per camera NIST FRVT compliant	10	Nos/yr			
7	No Helmet Detection per yr	Per camera	10	Nos/yr			

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8	No Seat Belt Detection per yr	Per camera	10	Nos/yr			
9	Triple Riding Detection per yr	Per camera	10	Nos/yr			
10	Mobile Phone Usage per yr	Per camera	10	Nos/yr			
11	Water Logging Detection per yr	Per camera	10	Nos/yr			
12	Speed Detection Camera	4MP 50/60fps IP65	4	Nos			
13	RLVD Gantry Complete	Gantry + Foundation + JB +Power	1	Nos			
14	RLVD Edge Equipment Kit	Switch+ UPS +MC + LIU per junction	1	Nos			
15	External IR Illuminator	100m IP65	16	Nos			
	Total Junction Component			NOT included in L1			

TABLE P2: CLOUD-BASED DISASTER RECOVERY (DR)

Cloud DR Architecture							
Sr. No.	Item	Description	Qty.	Unit	Rate/ Mont h (₹)	Annual (₹)	5-Yr Total (₹)
16	Platform	NIC Cloud / NICSI Empaneled / GSDC / AWS GovCloud India / Azure Govt India		Lot			
17	Mode	Active-Passive Non-Core and Active-Active VMS EMS		Lot			
18	RPO	15 min or less Core / 1 hr. or less non-core		Lot			
19	RTO	30 min or less Core / 4 hrs. or less non-core		Lot			
20	Data Sovereignty	All data within India		Lot			
21	Compliance	MeitY Cloud Guidelines ISO 27001/27017/27018 SOC 2 Type II		Lot			
Total Cloud DR Architecture							

Cloud DR BoQ (5 Years)							
Sr. No.	Item	Description	Qty.	Unit	Rate/ Mont h (₹)	Annual (₹)	5-Yr Total (₹)
COMPUTE							
22	Application VMs	16 vCPU 64GB 200GB SSD	2	VM/Mo			
23	Database VMs	16 vCPU 128GB 500GB SSD	2	VM/Mo			

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Sr. No.	Item	Description	Qty.	Unit	Rate/Month (₹)	Annual (₹)	5-Yr Total (₹)
24	Recording VMs	16 vCPU 64GB 200GB SSD	4	VM/Mo			
25	GPU Analytics VMs	16 vCPU 128GB 2xNVIDIA T4	5	VM/Mo			
26	Utility VMs	8 vCPU 32GB 200GB SSD	2	VM/Mo			
Sub-Total Compute		15 VMs					
STORAGE							
27	Object Storage DR Video	S3-compatible	2,200	TB/Mo			
28	Block Storage SSD	NVMe IOPS-optimized	35	TB/Mo			
Sub-Total Storage		2.2 PB					
NETWORK							
29	VPN Gateway S2S	Encrypted Redundant	2	Nos/Mo			
30	Data Transfer Egress	Outbound peak	50	TB/Mo			
31	VPC/Internal Networking	VPC subnets NACLs	1	Lot/Mo			
Sub-Total Network							
SECURITY							
32	Cloud Security Stack	NGFW+WAF+DDoS+SIEM DR	1	Lot/Mo			
Sub-Total Security							
MANAGEMENT							
33	Cloud Monitoring and Orchestration	Alerts automated failover	1	Lot/Mo			
34	DR Drill and Testing	Bi-annual failover drill	2 per yr	Nos/Yr			
35	Cloud DR Setup One-Time	Architecture deployment integration	1	Lot			
36	Data Replication License 5-yr	Continuous DC-to-Cloud replication	1	Lot/Yr			
SCHEDULE F: VIDEO WALL (CAPEX)							
37	Video Wall Solution-in 9 X 3 arrangement (with video Controller)	9x3 arrangement, 5000 nits' brightness, 5000:1 or better contrast ration, 100000+ hours life, bezel less, LED Type	1	Nos			
Sub-Total Management							
TOTAL CLOUD DR 5 YEARS							

Sr. No.	Use Case	Functional Description
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1	Red Light Violation Detection (RLVD)	Multi-frame evidence (before, during, after violation). Synchronized with signal controller. ANPR for vehicle identification. Auto E-Challan generation with complete evidence package
2	Mobile Phone Usage While Driving	Detection of drivers using mobile phone while vehicle in motion. Evidence image capture showing phone in hand
3	No Helmet Detection	Detection of two-wheeler riders without helmets. Rider and pillion identification. Evidence capture
4	No Seat Belt Detection	Detection of front-seat occupants not wearing seat belts. Driver and co-driver identification
5	Wrong Side Driving	Detection of vehicles driving against designated traffic flow. Direction analysis against road configuration
6	Triple Riding (>2 on Two-Wheeler)	Detection of two-wheelers carrying more than 2 passengers. Evidence image with passenger count
7	Blocking Free Left / Stalled Vehicle	Detection of vehicles blocking free-left lane. Stalled vehicle detection causing traffic obstruction
8	Water Logging Detection	Detection of water accumulation on roads. Depth estimation through reference markers. Alert to civic authorities
9	Facial Recognition System	Identification of persons of interest against watch-list databases. Real-time face detection and matching. Minimum face size 100×100 pixels. Integration with law enforcement databases

Note:

- NIPS will serve as the threat-prevention appliance in place of UTM as referred in the RFP.
- Ensures 99.5% system uptime through continuous monitoring and preventive maintenance.
- Reduces unexpected failures of outdoor devices operating in heat, dust, rain, and high-humidity environments.
- Provides fixed annual budgeting and eliminates unpredictable emergency repair costs.
- Prevents downtime penalties and avoids delays due to emergency procurement cycles.
- Delivers mandatory CERT-IN patching, quarterly updates, and annual VAPT.
- Keeps all firmware and OS versions aligned with OEM security advisories.
- Maintains OEM warranty validity by performing required servicing and firmware updates.
- Prevents warranty voidance due to missing logs, skipped maintenance, or outdated firmware.
- Maintains analytics accuracy by countering AI model drift caused by lighting, seasonal changes, construction, and traffic pattern evolution.
- Keeps ANPR, RLVD, helmet detection, mobile-use detection, FRS, and other models tuned with periodic recalibration.
- Continuously monitors MPLS links for packet loss, jitter, and latency to sustain video and analytics workloads.
- Ensures DR and auto-failover readiness through scheduled failover drills.
- Maintains interoperability across multi-vendor components—cameras, PoE switches, edge devices, VMS, analytics, and DC hardware.
- Prevents system instability caused by uncoordinated firmware updates across vendors.
- Offers fixed SLA commitments with rapid response times (2–4 hours for critical

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issues).

- Provides a single accountable ownership layer, avoiding blame-shifting among vendors.
- Ensures smooth functioning of mission-critical enforcement systems during festivals, emergencies, VIP movement, and city events.
- Keeps enforcement datasets, logs, and evidence streams consistent and audit-ready for legal use.
- Supports long-term service continuity with documented maintenance history and performance reports.

The quantities and line items indicated in this Bill of Quantities (BOQ) are based on preliminary assessments and may be modified after the detailed feasibility study and ground survey. Post-survey, the Successful SI/ Bidder shall issue the updated BOQ and shall be required to comply with and execute the works as per the revised BOQ without deviation. Any additional items, modifications, or future requirements arising from the ground survey or during / after the implementation period shall be supplied, installed, tested, and commissioned by the System Integrator (SI) at the same unit rates quoted in this BOQ, without any escalation.

The bandwidth capacities specified in Table B2 are indicative and based on preliminary network design assumptions. During the detailed ground survey and feasibility assessment, the actual bandwidth requirements per site may be optimized, consolidated, or redistributed by the SCADL to ensure efficient utilization of network resources.

The System Integrator (SI) shall be required to provision, operate, and maintain the optimized bandwidth capacities as finalized post-survey, without deviation. Any upgraded, additional, or alternate bandwidth requirements arising from network optimization, traffic load analysis, redundancy planning, or SLA commitments shall be provisioned by the SI at the same unit rates quoted in this BOQ, with no escalation permitted.

The quoted rate for all OPEX line items for one year shall remain applicable for all years during the entire contract period. If both parties agree to extend the contract, the same rate will apply for the 6th and 7th years in the O&M phase.

Note for Financial Bid:

1. All line items must comply with technical specifications and Scope of Work, including all applicable licenses, active/passive cabling, accessories, installation, commissioning, configuration, AMC, warranty, and back-to-back OEM support for the entire contract duration.
2. Quantities in the tables are indicative and used for commercial evaluation. SCADL will issue orders based on actual requirements at the time of placing the order.
3. Actual bandwidth quantities may vary based on field survey. SCADL will issue a work order to the TSP after the bidder completes the survey and confirms bandwidth requirements.
4. Quantities mentioned are based on current assessment. At implementation, actual quantities will be considered. Payment will be made based on executed quantities at quoted rates.
5. SCADL reserve the right to delete any product/equipment before final implementation and remove any BOQ line item.
6. Bandwidth rates shall be reduced proportionately if TRAI revises prevailing rates during the contract period.
7. Bidder must upload a detailed priced BOQ online. No field should be left blank.
8. All out-of-pocket expenses (boarding, lodging, travel, etc.) must be included in the quoted price. No separate payment will be made.
9. Refer to the quantity variation clause in Section 13.25.
10. Rates for dismantling and reinstallation shall remain valid for the entire contract duration. Quantities are indicative; bidder must perform additional

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dismantling/reinstallation at the same quoted rate. Cost must include all allied activities; no extra payment will be made.

11. Provide breakup of all taxes, duties, and levies wherever required.
12. SCADL reserves the right to request proof of payment for any taxes, duties, or levies indicated.
13. If GST rates change during the project, adjustments will apply as per government norms with supporting documents.
14. Quoted rates may be considered for additional procurement/payment in future.
15. Lump Sum items shall have quantity as one (1) in the BOQ; bidder must quote as a complete package/solution.
16. No additional cost beyond quoted BOQ rates will be paid. Bidder must include all associated costs in their commercial bid. No claims for extra cost will be entertained.

8.5. Total Cost

Line items	Amount (₹, Excl. Tax)
Total CAPEX (A + B + C)	
Total OPEX – 1 Year (D + E + F + G + H)	
Total OPEX – 5 Years	
Grand Total (CAPEX + 5 Years OPEX)	

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9. Revised Project Timelines and Payment Terms

All references to timelines, milestones, payments and penalties in this section shall be read in conjunction with the revised Scope of Work, Commercial Bid Format and SLA framework defined in this Corrigendum. In the event of any conflict between the original RFP and this Corrigendum, the provisions of this Corrigendum shall prevail.

To shall mean the date of issuance of Letter of Intent (LOI) / Letter of Award (LOA) / Selection Letter by SCADL/AMC.

T1 shall mean the date of Final Go-Live certification issued by SCADL upon successful completion of UAT across all locations and systems.

Sr No	Deliverables	Timeline	Payment	Penalty
1	Contract Signing & Submission of PBG To – Date of Issuance of LOI/LOA/Letter of Selection	T-o + 15 Days	No Payment	INR 1,000 for every day of delay
2	Site Survey, Project Inception, As-Is and Design Phase Conduct site surveys to assess the installation locations and confirm the installation, power, network connectivity options. Prepare the installation sites, including securing necessary permits and permissions. Project Inception Phase: <ul style="list-style-type: none"> - Project Kick-Off and Team Mobilization - Detailed Project Plan - Technical Architecture Inception Report - Project Plan - Technical Architecture Document AS-IS / Requirement Documentation Phase: <ul style="list-style-type: none"> - Detailed Site Survey Report with Coverage Study - Detailed Design of Poles with Cantilever/Gantry (including civil works) - Identification of Video Analytics per Camera - System Requirements Document - Functional Requirements Document Design Phase: <ul style="list-style-type: none"> - Detailed Network Feasibility Report with Coverage Study - Detailed Trenching Plan for Network & Electricity - Proposed Network Architecture Integrating Existing and New Systems - Detailed Data Centre Layout 	T-o + 45 Days	10% of CAPEX	INR 5,000 for every day of delay

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Sr No	Deliverables	Timeline	Payment	Penalty
	<ul style="list-style-type: none"> - Data Centre Architecture (including reusability) - Data Centre Scalability Plan - Technical Design Documents 			
3	<p>Successful Supply & Installation of field level devices as per RFP BoQ/WO with required hardware at project site, testing and software integration</p> <ul style="list-style-type: none"> • Detailed application integration architecture • Detailed list of customizations required • System design document • Test cases document for UAT • Installation of complete Application Portfolio • Delivery Challan • Installation reports • System design document • Test cases for UAT • Warranty & AMC documents for active IT components & applications • Integration and commissioning of the components mentioned above with the Surveillance CCC • Operationalization of the entire system with use cases <p><i>Pro-rata and part payments will be allowed for individual locations or in lots, since the locations are spread across AMC plots, riverfront, bridges, and city entry and exit points.</i></p> <p>The payment for use cases will be released only after Go-Live of Hardware Components. And the payment will be released on quarterly basis as per the cost submitted by bidder (per use case/year)</p>	T-o + 180 Days	40% of CAPEX	INR 20,000 for every day of delay
4	<p>Supply & Installation of IT & Non-IT Infrastructure at the Primary Data Centre, including applications:</p> <ul style="list-style-type: none"> • Detailed application integration architecture • Detailed list of customizations required • System design document • Test cases document for UAT • Installation of complete Application Portfolio • Delivery Challan 	T-o + 180 Days	15% of CAPEX	INR 20,000 for every day of delay

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Sr No	Deliverables	Timeline	Payment	Penalty
	<ul style="list-style-type: none"> Installation reports System design document Test cases for UAT Warranty & AMC documents for active IT components & applications Integration and commissioning of the components mentioned above with the Surveillance CCC Operationalization of the entire application portfolio 			
5	<p>Project UAT and Go-Live (T1):</p> <ul style="list-style-type: none"> Completion of training, handover of all documentation, and formal Go-Live of the project Training completion report Go-Live report User manuals Detailed plan for monitoring SLAs and overall system performance Training Plan: Preparation of user manuals, training curriculum, and training materials Training and Final Commissioning: Delivery of training sessions as per the training plan Final commissioning of the system <p><i>Pro-rata and part payments will be allowed for individual locations or in lots, since the locations are spread across traffic junctions, bridges, and city entry and exit points.</i></p> <p>The payment for use cases will be released only after Go-Live of Hardware Components. And the payment will be released on quarterly basis as per the cost submitted by bidder (per use case/year)</p>	T-0 + 270 Days	35% of CAPEX	INR 20,000 for every day of delay
6	<p>Operation and Maintenance of IT and Non-IT Components:</p> <p>Start of O&M Phase (Post Go-Live – T1) for five (5) years – 20 Quarters</p> <ul style="list-style-type: none"> SLA and performance monitoring Logging, tracking, and resolution of issues Application enhancements Patch updates Helpdesk services Preventive field maintenance Monthly SLA monitoring report 	T-1 + 3 Months	25% of Annual OPEX per quarter of 20 Quarters	As per the O&M SLA table for performance & Penalty

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Sr No	Deliverables	Timeline	Payment	Penalty
	<p><i>Pro-rata and part payments will be allowed for individual locations or in lots, since the locations are spread across traffic junctions, bridges, and city entry and exit points.</i></p> <p>The payment for use cases will be released only after Go-Live of Hardware Components. And the payment will be released on quarterly basis as per the cost submitted by bidder (per use case/year)</p>			

Note -:

- The data for the new initiative is tentative. Any increase or decrease in the quantity requirements will be adjusted during the site survey by the MSI.
- The Project Contingency Cost is considered to be 2%. This covers unforeseen costs or situations not included in the initial project cost estimate, such as project management service costs, logistics costs, unpredictable risk exposures, etc.
- The locations listed under Collaborative Monitoring are tentative. The MSI will visit and finalize these locations. If site access permissions are required during the survey/analysis stage, the MSI must coordinate with the SCADL.
- For Network and Data Centre considerations, the existing TSP network and current data centre location have been used. If the new MSI wishes to switch to a new data centre, the bidder must account for a Tier III data centre and associated costs accordingly.
- Payments will be released after certification of the respective payment milestone by SCADL.
- All payments shall be made in Indian Rupees only and are subject to the relevant provisions of the contract. Payments are subject to deductions for any amounts the SI is liable for under the RFP conditions. Additionally, payments will be subject to Tax Deduction at Source (TDS) as per the current Income-Tax Act. For all cameras in Track I, SLAs will be monitored from Day 1 of the project, and the bidder will be responsible for maintaining the SLAs as per the SLA table mentioned in this RFP.
- Currently, Metro lines and stations within AMC's jurisdiction are under construction. Their completion timeline depends on external factors. Installation and commissioning of facial recognition cameras will depend on the completion of these Metro lines and stations. Payments will be made based on actual supply, installation, testing, and commissioning. The successful bidder must provide software/automated tools to monitor all specified SLAs.
- The purchaser reserves the right to conduct audits or reviews of the SLA parameters, either personally or through an appointed agency. The SLAs will be reviewed annually after consultation with the SI, Project Management Consultants, and other experts. Any changes made by the purchaser after consultation may include corrections to avoid undue relaxation in service levels or unrealistic penalties noticed post project go-live.
- If delays in implementation or performance are due to reasons not attributable to the SI, the SI should submit clear proof to the purchaser identifying the cause and responsible agency.
- The payment will be done as per the quantities defined in the financial bid of this RFP.
- AMC/SCADL at its discretion may or may not give work order for any or all items quoted by the selected IA. The contract value, PBG, Scope of Work and other associated terms will be revised accordingly.
- AMC/SCADL may issue commissioning and Go-Live approval in parts for allotted work.
- Penalties shall be levied only for the reasons attributable to the implementing Bidder. Any risks/ issues foreseen by the implementing Bidder shall be brought to the notice of

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the SCADL immediately. If no such issues/risks are highlighted by the implementing IA, then it is expected that no delays will be there in the implementation schedule

- n. Part commissioning and Go-Live will be based on recommendations of AMC/SCADL for purpose of better use of deployed software and hardware solutions. In such cases the bidder will have to initiate the services for O&M phase and may raise the request of payment on quarterly basis.
- o. In case of delay in project implementation phase, AMC/SCADL at its discretion may or may not increase the total duration of the project.
- p. Payment for additional items limited to 30 % of total project cost - Based on the final project plan or during the project duration if there is need for additional items and there is variation in the quantities (limited to thirty percent of quantity discovered in financial bid) as defined in the financial bid, implementation BIDDER will be required to arrange additional items.
- q. Payment for such additional items will be done separately by SCADL.
- r. In such case of any additional requirement, payment will be done based on the rate provided in the financial bid of the Implementation IA.
- s. If the proofs are accepted, penalties will not apply.
- t. Notes for E-Challan Use Cases
 - i. SCADL will verify detection accuracy manually before milestone approval.
 - ii. Accuracy = (True Positive Events ÷ Total Events manually verified).
 - iii. No milestone approval until required accuracy % is achieved.
 - iv. No penalty for false positives during implementation phase.
 - v. Payment based on implemented license quantity (with evidence like server snapshot/system report).
 - vi. In O&M phase, if a location is dismantled, payment for those licenses will be paused until re-implementation.
- u. Termination Clause - If the total OPEX penalty exceeds 15% of the quarterly invoice amount in any two consecutive quarters, the SCADL reserves the right to terminate the contract in any of the following cases:
- v. Penalties shall not be levied on the successful bidder in the following cases:
 - i. A force majeure event affects the SLA, which is beyond the control of the bidder.
 - ii. Non-compliance with the SLA arises from reasons beyond the bidder's control.
 - iii. Theft cases are generally not considered beyond the bidder's control. However, in certain cases and locations, police may agree to qualify theft as beyond the bidder's control.
 - iv. Damages due to road accidents or mishaps shall be considered beyond the bidder's control.
 - v. Power shutdowns or deliberate damage to the camera/pole will not be considered beyond the bidder's control.

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Timelines & Payment Terms for Operation and Maintenance (O&M) Phase

The purpose of this Service Level Agreement (hereinafter called SLA) is to clearly define the levels of service which shall be provided by the successful Bidder to End Customer and SCADL for the duration of the contract. The SLA is intended to establish a clear set of measurable parameters against which the performance of the Implementation Bidder can be measured.

- The bidder needs to maintain a reliable database to monitor the project progress and their performance against the SLAs.
- Bidders need to report the compliance/non-compliance to SLAs on weekly and monthly basis.
- Bidder needs to deploy a system (web based or portal or mobile app or project management software) for monitoring the SLA (CAPEX and OPEX phase), real time project progress monitoring and should share access with designated officials from AMC/SCADL.
- Maximum penalty is restricted to 10% of the project cost. Non-compliance to SLA beyond the penalty limit may lead to termination of contract on discretion of AMC/SCADL.
- Penalties shall be levied only for the reasons attributable to the implementing Bidder. Any risks/ issues foreseen by the implementing Bidder shall be brought to the notice of the SCADL immediately. If no such issues/risks are highlighted by the implementing IA, then it is expected that no delays will be there in the implementation schedule

During the Operation & Management period the implementing IA is expected to keep the Technology and Performance levels above the specified level. It will be the responsibility of the implementing IA to design and code the software to ensure application is measurable in terms of uptime and performance

Sr No	Service level parameter	Baseline Metric	Penalty	Basis for measurement
1	Availability of Cameras	>90% per quarter	No penalty	Ticket Based Incident Management System by bidder. The measurement of the service availability will be based on the reports generated through Management software & inspection by SCADL/AMC team and open source monitoring tools or by tools deployed by IA/client during the project.
		85-90% per quarter	5 % of quarterly payment of associated work	
		80 – 85%	10 % of quarterly payment of associated work	
		< 80%	May lead to contract termination	

SLA for Operation, Maintenance & Support

The application and hardware infrastructure is expected to be in running condition on all days (24*7). If there is a system or software breakdown, all breakdown calls are to be resolved within specified time from the time of complaint made to IA O&M team. The resolution time is defined based on the criticality of the issue. It would be the responsibility of the successful IA to log issues / breakdowns related to all application, IT equipment supplied & network connections as part of this project under the scope of work with the respective OEMs.

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Sr No	Service parameter level	Resolution Time (per device)	Penalty	Basis for measurement
1	Hardware breakdown	within 24 hrs. from the time of complaint	No penalty	Ticket Based Incident Management System by bidder. The measurement of the service availability will be based on the reports generated through monitoring tool deployed by bidder, complaint registered by users and discovered during inspection.
		Not resolved within 24-48 hours or standby not provided.	0.1 % of quarterly payment per instance	
		Not resolved / standby not provided. (after the first 48 hours)	0.2 % of quarterly payment per instance	
2	Software Breakdown - Resolution of Bugs/ Issues related to the Dashboard and Application Software	<= 4 Hrs.	No penalty	Ticket Based Incident Management System by bidder. The critical issues/bugs will be logged and tracked through monitoring tool deployed by bidder.
		> 4 Hrs.	0.025% of the quarterly payment deducted on a pro-rata basis for every hour of delay beyond the baseline metric.	

SLA for O&M Manpower

Functional Support				
Sr. No	Parameter	Metric	Penalty	Basis for measurement
1.	Attendance of Manpower as per AMC/SCADL office timing and leave rules	100% availability	No penalty	Bio-metric Attendance system deployed by bidder
		90%-99% availability	Rs. 1000 for every day of absence	
		<90% availability or standby not provided.	Rs. 2000 for every day of absence	
2.	Performance Rating	>= 4 (on a scale of performance rating from 1 to 5)	No penalty	Performance feedback rating system deployed by bidder. Bidder will have to deploy ticket management system and shall take performance feedback on each service. Overall avg. score will be counted for penalty deduction. In absence of rating from users, bidder shall take performance certificate from AMC/SCADL mentioning the rating
		>=Rating 3 to < 4 (overall avg. score for a quarter)	5 % of quarterly payment	
		< Rating 3 (overall avg. score for a quarter)	10% of quarterly payment	

Note:

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- Penalties shall be levied only for the reasons attributable to the implementing IA. Any risks/ issues foreseen by the implementing BIDDER shall be brought to the notice of the SCADL immediately. If no such issues/risks are highlighted by the implementing IA, then it is expected that no delays will be there in the implementation schedule
- All works under or in course of execution or executed in pursuance of the contract shall at all times, be open to the inspection and supervision of AMC/SCADL or appointed representatives.
- If the BIDDER or his workmen, or servants shall break, deface injure or destroy any part of the building or work in question or work in question in/on which they may be working or any building, road, fence, enclosure or grass-land or cultivated ground contiguous to the premises on which the work or any part-thereof is being executed or if any damage shall be done to the work from any cause whatever before completion of the work. The BIDDER shall make good the same at own expenses or in default, the AMC/SCADL may cause the same to be made good by other BIDDER and deduct the expenses (of which the certificate of the Engineer-in-charge shall be final) from any sums that may thereafter become due to the BIDDER or from his security deposit or the proceeds of sale thereof or a sufficient portion thereof.
- If any hardware has hardware failure on four or more occasions in a quarter, it shall be replaced by equivalent new equipment by the vendor at no cost to SCADL within 10 days from the date of last failure. Till the replacement is provided, the original equipment has to be kept in running condition or else a standby provided and all services restored. However, penalties for breakdown as per SLAs defined in the tender will be applicable.
- The penalties as above will be recovered from any payment due to the Successful IA.

Partial/Full damage to hardware

- a. Hardware installed through this Project would become an important public asset. During the contract period of the Project the BIDDER shall be required to repair / replace any equipment if stolen / damaged/faulty. Appropriate insurance cover must be provided to all the equipment supplied under this project
- b. In case of Partial/ Full damage or loss of the equipment due to reasons beyond the control like Theft, intentional damage by mishandling, Fire etc., the BIDDER should be in a position to supply working standby equipment with same configuration or higher with all services restored, as if it is a normal breakdown.
- c. In such a case the BIDDER will have to make provision for the supply of the new hardware against the lost/ damaged equipment/ component. Monthly rental of 5% of basic Hardware cost may be payable to the BIDDER for the equipment supplied as standby or SCADL may choose to procure new equipment at the same rates as is mentioned in the price bid. If the BIDDER does not provide standby equipment, the penalties for breakdown as per SLAs will be imposed.
- d. Service Engineers/ Representatives of BIDDER shall invariably carry their identity cards with them, without which they will not be allowed to access department Systems. Service Engineers of the BIDDER shall have access to the Computer Systems/ Backup Solution only after obtaining clearance from department authorized officials. No component of the System/ data/ log information will be taken out of department premises without clearance from authorized Officials of the department.

Review of SLA Parameters

The SLA design is based on the scope of services and operational aspects of Implementation IA. Due to evolving nature of the proposed project, a review of SLAs will be conducted at the end of three months from the date of go-live of the Implementation IA. The purpose of this review is to reassess the SLAs based on the first three months' call volumes. SCADL, after thorough analysis of the monthly statistics monitored as per the above mentioned SLA parameters, may consider revision of the SLA parameters and update this agreement. And if the revision occurs, then the revised SLAs would be final and binding for the rest of the term of the contract.

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General Notes on Timelines and Payment Terms

I. Scope & Quantities

- **A. Tentative Quantities:** The quantities indicated under the revised scope are based on preliminary assessments and are tentative. Any increase or decrease identified during the detailed site survey conducted under Milestone 2 shall be adjusted accordingly by the Selected Bidder, subject to formal approval by SCADL. Such adjustments shall not alter the unit rates quoted in the financial bid.
- **B. Project Contingency:** A Project Contingency Cost of **2% of the total project cost** has been considered to cover unforeseen requirements that may arise during implementation, including but not limited to project management services, logistics, regulatory compliance costs, additional civil works, and other unpredictable factors. Utilizations of the contingency shall require prior written approval from SCADL.
- **C. Location Verification:** All locations identified under the revised scope across Corridors, Junctions, Bridges, Estate/SWM PoS and Riverfront PoS are tentative. The Selected Bidder shall verify and finalize these locations during the survey and analysis stage under Milestone 2 and shall coordinate with SCADL for all necessary site access permissions, right-of-way clearances and statutory approvals. Any location found infeasible during the survey shall be replaced by an alternate location of equivalent category as directed by SCADL.
- **D. Data Centre:** For Network and Data Centre-related planning, the existing TSP network and the current Data Centre facility have been considered as the baseline. If the Selected Bidder proposes to utilize an alternate Data Centre, such facility must conform to **Tier III standards** (or equivalent certification), and the Selected Bidder shall include all associated costs within its financial bid.

II. Payment Conditions

- **E. Milestone Certification:** Payments shall be released only after formal certification of the respective milestone by SCADL or its authorized representative. Certification shall be based on physical verification of installed and commissioned infrastructure, functional testing, submission of milestone-specific documentation, and confirmation that integration with ICCV, VMS, Video Analytics and e-Challan (where applicable) is operational.
- **F. Currency, Taxation & SLA Commencement:** All payments shall be made in **Indian Rupees (INR)** and shall be subject to applicable contractual provisions, including deductions for any amounts payable by the Selected Bidder under this RFP and Corrigendum. Payments shall also be subject to TDS as per the prevailing Income Tax Act and any other applicable taxes/levies. For all commissioned field devices across Corridors, Junctions, Bridges and PoS, **SLA monitoring shall commence from the date of commissioning certification** of the respective location/category, and the Selected Bidder shall be responsible for ensuring compliance as per the SLA tables defined in this Corrigendum.
- **G. Dependency on External Infrastructure:** Metro lines and stations within AMC's jurisdiction are currently under construction. Installation and commissioning of Facial Recognition Cameras at these locations is dependent on the completion of these infrastructures by the respective external agencies. Payments shall be released only for **actual supply, installation, testing and commissioning** completed by the Selected Bidder. No payment shall be made for equipment procured but not installed, or installed but not commissioned. The Selected Bidder must provide automated tools for monitoring all specified SLAs.
- **H. SLA Audit Rights:** The Purchaser (AMC/SCADL) reserves the right to conduct audits or reviews of SLA parameters at any time during the contract period, either directly or through an appointed independent agency. SLAs will be reviewed **annually** (and additionally at the end of three months from T1) after consultation with the Selected Bidder, Project Management Consultants, and relevant domain experts. Any required

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revisions may be incorporated to rectify unrealistic penalties or undue relaxations identified post Go-Live. Such revisions, once notified, shall be final and binding for the remainder of the contract.

- **J. Payment Basis:** All payments shall be made as per the quantities finalized in the financial bid submitted under this RFP and Corrigendum, read together with the post-survey adjusted BOQ approved by SCADL. No payment shall be made for items not commissioned, not discovered in the NMS, or not forming part of the approved scope.
- **K. Partial Work Orders:** AMC/SCADL reserves the right to issue the Work Order for selected items or selected location categories only. In such cases, the Contract Value, Performance Bank Guarantee (PBG), Scope of Work, milestone payments, and associated contractual terms shall be revised proportionately.

III. Phased Commissioning & Go-Live

- **L. Phase-wise Go-Live:** AMC/SCADL may approve commissioning and Go-Live in phases, based on readiness at respective sites. Phase-wise Go-Live shall cover Corridors, Junctions, Bridges and PoS independently or in combination as determined by SCADL. Within each category, further sub-phasing by geographic cluster or readiness batch may be permitted at SCADL's discretion.
- **N. Partial Commissioning & O&M Commencement:** Partial commissioning and Go-Live may be recommended by AMC/SCADL to enable optimal utilization of deployed hardware and software. In such cases:
 - The Selected Bidder shall commence O&M services for all commissioned locations from the date of partial Go-Live.
 - SLA obligations shall apply from the date of partial Go-Live for commissioned locations.
 - The Selected Bidder shall raise quarterly O&M invoices for commissioned locations only, calculated on the basis of active assets discovered in the NMS.
 - O&M invoices for partially commissioned categories shall be computed pro-rata based on the number of active sites relative to the total sites in that category.

IV. Delays, Extensions & Penalties

- **I. Delays Not Attributable to the Selected Bidder:** In the event that delays in implementation or performance occur due to reasons not attributable to the Selected Bidder, the Selected Bidder shall submit appropriate documentary evidence to SCADL **within 7 working days** of the occurrence, identifying the cause, the responsible party, the affected milestones, and the estimated impact on timelines. Failure to provide timely notification within the stipulated period shall create a presumption that no external factors were involved.
- **M. Penalty Attribution:** Penalties shall be levied only for delays attributable to the Selected Bidder. The Selected Bidder must immediately bring to SCADL's notice any risks or issues that may affect timelines. Failure to provide timely notification shall imply that no external factors were involved and penalties shall be levied accordingly. The Selected Bidder shall maintain a **risk register** updated weekly and shared with SCADL, documenting all identified risks, their potential impact and proposed mitigation measures.
- **O. Extension of Project Duration:** In case of delays during the implementation phase, AMC/SCADL may, at its sole discretion, decide whether or not to extend the overall project duration. Any extension granted shall not relieve the Selected Bidder of its penalty obligations for the original milestone deadlines, unless SCADL explicitly waives such penalties in writing. Extension of the implementation phase shall not result in reduction of the O&M period.
- **R. Proof of External Delays:** Penalties shall not apply where the Selected Bidder submits acceptable proof, within the timelines specified in Note I above, demonstrating

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that delays were caused by reasons genuinely beyond the Selected Bidder's control. SCADL shall be the sole arbiter of whether the submitted proof is acceptable.

V. Additional Items & Variations

- **P. Variation Limit & Pricing:** Payment for additional items shall be made based on the updated project plan or requirements arising during the project, subject to the following conditions:
 - The total value of additional items shall not exceed **30% of the total project cost**.
 - Variations shall fall within thirty percent (30%) of the discovered quantities in the financial bid for the respective line item.
 - The Selected Bidder shall supply, install, test and commission such additional items at the **same unit rates** quoted in the financial bid, without any escalation.
 - All additional items must be formally approved by SCADL in writing before procurement/execution.
 - Additional items pertaining to the **65 removed junctions** shall be executed at the rates discovered under the Rate Discovery section of the Commercial Bid.
- **Q. Payment for Additional Items:** Payments for additional items approved under Note P above shall be made separately by SCADL as per the rates provided in the Selected Bidder's financial bid. Such payments shall follow the same certification and verification process applicable to regular milestone payments.

VI. e-Challan Specific Provisions

- **S. Notes for e-Challan Use Cases (Applicable to Corridors and Junctions):**
 - SCADL shall manually verify detection accuracy before approval of the Go-Live milestone (Milestone 3A for Corridors, Milestone 3B for Junctions) and the UAT milestone (Milestone 5).
 - Accuracy shall be calculated as: $(\text{True Positive Events} \div \text{Total Events Manually Verified}) \times 100$. The minimum acceptable accuracy threshold shall be as specified in the technical specifications of this Corrigendum.
 - Milestone approvals shall be withheld until the required accuracy percentage is achieved. The Selected Bidder shall be given a reasonable remediation window (not exceeding 15 days) to tune the system before re-testing.
 - No penalties shall be levied for false positives during the implementation phase (up to T1). However, the Selected Bidder shall demonstrate continuous reduction in false positive rates.
 - Payments shall be based on the actual number of e-Challan licenses implemented and operational, supported by system-generated evidence including server snapshots, detection reports, enforcement logs and audit trails.
 - During the O&M phase, if any location is dismantled due to external developments (road widening, infrastructure projects, authority directives, etc.), payments for those e-Challan licenses shall be paused from the date of dismantling until reinstatement.
 - For the 10 Traffic Junctions, e-Challan accuracy verification shall cover the full violation suite including ANPR, RLVD, helmet, seatbelt, mobile-usage, triple-riding, wrong-side movement, free-left blockage and stopped-vehicle detection. Each violation type shall be individually tested.

VII. Termination

- **T. Termination Clause:** If total OPEX penalties exceed 15% of the quarterly invoice amount in any two consecutive quarters, SCADL reserves the right to terminate the contract in accordance with the terms of this RFP and Corrigendum. Before initiating termination, SCADL shall issue a cure notice to the Selected Bidder, providing a period

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of 30 days to demonstrate corrective action and a credible improvement plan. If the Selected Bidder fails to demonstrate satisfactory improvement within the cure period, SCADL may proceed with termination. Upon termination:

- All installed assets procured under CAPEX shall vest with AMC/SCADL.
- The PBG shall be encashed in full.
- The Selected Bidder shall facilitate an orderly transition to a successor agency within 90 days.
- All source code, configurations, documentation, credentials and data shall be handed over to SCADL.

VIII. Penalty Exemptions

- **U. Exemption from Penalties:** Penalties shall not be levied on the Selected Bidder in the following cases, provided that the Selected Bidder notifies SCADL in writing within **7 working days** of the event and submits supporting documentary evidence:
 - **Force Majeure** – A force majeure event affecting SLA compliance, as defined in the contract terms. The Selected Bidder must invoke the force majeure clause formally and demonstrate a direct causal link between the event and the non-compliance.
 - **Reasons Beyond SI's Control** – Non-compliance arising from reasons genuinely beyond the Selected Bidder's control, excluding acts or omissions of the Selected Bidder's sub-contractors, consortium partners or supply chain.
 - **Theft** – Theft incidents that law enforcement authorities categorize as beyond the Selected Bidder's control, supported by a copy of the First Information Report (FIR) and a police investigation report. The Selected Bidder must demonstrate that adequate physical security and tamper-detection measures were in place.
 - **Road Accidents / Field Incidents** – Damages arising from road accidents or other unforeseen field incidents, supported by a police report, photographic evidence and insurance claim documentation.
 - **External Power / Damage** – Power shutdowns by the electricity utility (not caused by non-payment by the Selected Bidder) or deliberate damage to cameras/poles caused by external parties, supported by utility records, FIR or photographic evidence.
 - **Authority-directed Shutdown** – Temporary shutdown or relocation of equipment directed by SCADL/AMC or any government authority for public works, events, or security reasons.

In all cases under Note U, the burden of proof lies with the Selected Bidder. SCADL shall be the sole arbiter of the sufficiency of evidence. Exemption from penalties does not relieve the Selected Bidder of the obligation to restore services to full functionality within the prescribed resolution times.

Hardware Replacement Policy

Sr No	Provision	Detail
1	Trigger	Any hardware experiencing four or more breakdowns in a quarter
2	Replacement Timeline	Within 10 days from the date of the last failure
3	Cost	At no additional cost to SCADL
4	Interim Obligation	Original equipment must be kept in working condition OR standby of equivalent/higher configuration must be deployed
5	Penalty Continuity	Applicable breakdown penalties as per SLAs shall continue to apply during the replacement period
6	Replacement Quality	Must be new, OEM supported and non-refurbished; must carry warranty/support for the remaining contract duration

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Sr No	Provision	Detail
7	Spare Inventory – General	The Selected Bidder shall maintain a minimum field spare inventory of critical components (cameras, ANPR units, RLVD units, switches, LPUs, illuminators, power units, solar panels/batteries) sufficient to meet resolution SLAs. Spare plan to be submitted during Milestone 2 and auditable at any time.
8	Spare Inventory – Enforcement	For Corridors (88) and Junctions (10), dedicated prepositioned spares shall be maintained within city limits to achieve the 12-hour resolution target.

Partial/Full Damage to Hardware

Sr No	Provision	Detail
a	Asset Classification	Hardware installed through this project shall be treated as a critical public asset. During the contract period, the Selected Bidder shall be responsible for repair/replacement of any equipment that has become stolen, damaged or faulty across all 915 field locations and the Data Centre. Adequate insurance cover shall be maintained for all supplied equipment.
b	Standby Obligation	In case of partial/full damage or loss due to theft, intentional mishandling, fire, or similar events, the Selected Bidder shall provide working standby equipment of equivalent or higher configuration and fully restore all services, treating it like a normal breakdown from an SLA standpoint. Standby deployment timelines: 12 hours for enforcement locations (Corridors & Junctions); 24 hours for all other locations.
c	New Hardware Arrangement	The Selected Bidder shall arrange supply of new hardware against lost/damaged components. Monthly rental of 5% of the basic hardware cost may be payable to the Selected Bidder for standby equipment, OR SCADL may choose to procure new equipment at the same rate as quoted in the price bid. If standby not provided, breakdown penalties as per SLA shall apply.
d	Access & Security	Service engineers/representatives shall carry valid identity cards. Access to systems, logs and backups only after clearance from authorized AMC/SCADL officials. No component, data or logs shall be taken out of department premises without written approval.
e	Damage Register	The Selected Bidder shall maintain a register of all damaged/stolen/replaced hardware, updated in real-time and accessible to SCADL via the monitoring portal.

Damage Register – Mandatory Fields

Sr No	Field	Description
1	Date & Time of Incident	Exact timestamp of when the incident was detected or reported
2	Location Details	Category (Corridor/Junction/Bridge/PoS), Site ID, Address
3	Nature & Extent of Damage	Partial/Full; description of affected components
4	FIR Reference	First Information Report number (if applicable – theft/vandalism)
5	Standby Deployment Date & Time	Timestamp of when standby equipment was deployed
6	Permanent Replacement Date & Time	Timestamp of when permanent new hardware was installed
7	Insurance Claim Status	Filed / In Progress / Settled / Not Applicable

10. Functional & Technical Specifications

10.1 Fixed Bullet Camera

Sr. No.	Item	Minimum Specification
1	Video Compression	H.265 / H.264 / MJPEG or better
2	Resolution	4 MP or better
3	Frame Rate	≥25 fps at full resolution or better
4	Image Sensor	1/2.8" CMOS or better
5	Lens	Motorized varifocal 2.8–12 mm or better
6	WDR	≥120 dB True WDR or better
7	Ext. IR Range	≥50 m IR
8	Edge Storage	≥256 GB SD or more
9	Cyber Security	NDAA,UL,STQC,CERT-IN compliant
10	Ingress / Impact	IP66 / IK10 or better
11	Operating Temperature	–20°C to +80°C
12	Power	PoE (802.3af/at)
13	Standards	ONVIF Profiles S/G/T/M

10.2 PTZ Camera

Sr. No.	Item	Minimum Specification
1	Resolution	2 MP or better
2	Zoom	30× optical or better
3	Ext. IR Range	200 m IR
4	Frame Rate	≥20 fps or better
5	Patrol/Tours	Supported
6	Auto tracking	Supported
7	Storage	≥256 GB SD or more
8	WDR	≥120 dB
9	Ingress / Impact	IP66 / IK10 or better
10	Temperature	–20°C to +80°C
11	Power	PoE++ / Hi-PoE
12	Protocols	ONVIF S/T/M

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10.3 ANPR Camera

Sr. No.	Item	Minimum Specification
1	Resolution	4 MP or better
2	Frame Rate	50/60 fps or better
3	Vehicle Speed Support	Up to 200 km/h
4	Accuracy	≥95% standard plates, ≥85% non-standard or better
5	Lanes/Cam	≥2 lanes or better
6	Lens	5–50 mm, P-Iris or better
7	Ext. IR Range	External IR ≥100 m
8	WDR	≥120 dB or better
9	Storage	≥256 GB SD or more
10	Ingress / Impact	IP66 / IK10 or better
11	Cyber	NDAA,UL,STQC,CERT-IN compliant
12	Protocols	ONVIF S/G/T/M

10.4 RLVD Camera

Sr. No.	Item	Minimum Specification
1	Resolution	4 MP or better
2	Frame Rate	50/60 fps or better
3	Signal Integration	Real-time signal overlay
4	Accuracy	≥95% or more
5	Ext IR (Lane)	External IR ≥100 m
6	Ext IR (Evidence Cam)	≥50 m
7	Ingress / Impact	IP66 / IK10 or better
8	Protocols	ONVIF S/G/T/M

10.5 Field Infrastructure

Sr. No.	Item	Minimum Specification
Industrial PoE Switch		
1	Type	Managed L2 Industrial PoE switch
2	Ports	8/16 × 1G PoE + 2 × 1G SFP uplinks
3	PoE Budget	≥240 W (for 16/24-port)
4	Protocols	802.1Q VLAN, IGMP v1/v2, SNMP, DHCP
5	Security	HTTPS/SSL, SSH, RADIUS/TACACS+, Port Security
6	Power	Dual DC inputs
7	Ingress	IP40

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Sr. No.	Item	Minimum Specification
8	Temp	(-)20°C to 80°C
9	Compliance	BIS/UL/EN/IEC
10	Warranty	5 years
Outdoor Junction Box		
Sr. No.	Item	Minimum Specification
1	Protection	IP65 or better
2	Security	Tamper-proof lock + intrusion sensor
3	Ventilation	Fan/passive, suitable for 48°C ambient
4	Grounding	As per IS standards
5	Warranty	5 years
Poles		
Sr. No.	Item	Minimum Specification
1	Wind Load	≥150 km/h
2	Base	Base plate + RCC foundation
3	Mounting	Brackets for cameras/JB/IR/solar
4	Cable Routing	Internal concealed conduit or better
5	Warranty	5 years
Cantilever / Gantry		
Sr. No.	Item	Minimum Specification
1	Load Capacity	≥100 kg
2	Standards	IRC + IS 800 or better
3	Wind Load	≥150 km/h
4	Vibration	Anti-vibration camera mounts
5	Cable Routing	Internal conduit
6	Warranty	5 years
Field UPS		
Sr. No.	Item	Minimum Specification
1	Capacity	≥1/2 kVA
2	Output	Pure sine wave
3	Backup	≥4 hours
4	Protection	Surge/overload/short-circuit/lightning
5	Enclosure	Outdoor-suitable tamper-proof
6	Temp	0–80°C or better
7	Compliance	BIS/UL/EN/IEC
8	Warranty	5 years

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10.6 Network & Data Centre

Sr. No.	Item	Minimum Specification
Network Backhaul		
1	Primary Connectivity	MPLS/SIM Card
2	Secondary	4G/5G SIM for fallback/remote sites
3	Encryption	IPSec/TLS end-to-end
4	Monitoring	Central NMS + uptime/latency/packet loss tracking
Core Router		
Sr. No.	Item	Minimum Specification
1	Architecture	Multi-service chassis
2	Interfaces	1G/10G modules
3	Protocols	RIP/OSPF/BGP/IGMP, IPv4/6, VPN/IPSec, QoS
4	Redundancy	N+N PSU + hot-swap modules
5	Compliance	CE/FCC/UL/BIS
6	Warranty	5 years or more
Core/Aggregation Switches		
Sr. No.	Item	Minimum Specification
1	Ports	$\geq 48 \times 1G + \geq 4 \times 10G$
3	Features	VLAN (≥ 1024), QoS, LACP, IGMP Snooping/Query, 802.1x, SDN support
4	Mgmt.	SNMPv1/v2/v3, RMON, SSH, CLI/GUI
5	Compliance	CE/FCC/UL/BIS or better
Servers (App/DB/Analytics/Recording)		
Sr. No.	Item	Minimum Specification
1	Remote Mgmt.	iLO/iDRAC/IPMI
2	Warranty	5 years or better
Central Storage		
Sr. No.	Item	Minimum Specification
1	Type	Enterprise SAN/NAS/Scale-out or better
2	Capacity	Sized for 30-day video
3	Disks	$\geq 10/16$ TB NL-SAS/SATA dual-ported
4	SSD Tier	≥ 50 TB

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Sr. No.	Item	Minimum Specification
5	Controllers	Active-Active, non-disruptive upgrades
6	RAID	RAID-5/6 equivalent multi-disk/node tolerance
7	Cache	≥24 GB DRAM + SSD cache
8	Warranty	5 years or more
Security Stack		
Sr. No.	Item	Minimum Specification
1	Perimeter Security	Next-Gen Firewall + IPS/IDS + Anti-DDoS + WAF
2	Endpoint Security	AV/EDR or better
3	SOC/NDR	24×7 SOC + NDR

10.7 Primary Video Analytics Use Cases

Sr. No.	Use Case	Functional Description	Applicable Locations
1	Automatic Number Plate Recognition (ANPR)	Automatic detection and recognition of vehicle registration numbers from captured images. Logging of vehicle details with timestamp, lane, direction, and vehicle classification. Support for Indian standard and non-standard plates	All locations
2	Encroachment Detection (Time-Lapse Comparison)	Periodic capture of plot images via PTZ patrol. Comparison of images over configurable time periods (daily, weekly, monthly). AI-based detection of unauthorized construction, material accumulation, boundary changes. Automated ticket generation with before/after evidence images	AMC Plots
3	Debris and Garbage Dumping Detection	Detection of vehicles or persons dumping garbage, C&D waste, or other materials at AMC plots. Vehicle identification via ANPR. Time-stamped evidence capture. Automated alert to zone officer	AMC Plots
4	Cattle Detection on Road	Detection of stray cattle or animals on roads posing traffic hazard. Species classification (cow, buffalo, dog, etc.). Alert generation with location and timestamp	AMC Plots, Entry/Exit Points
5	People Count and Overcrowd Detection	Counting persons in defined zones. Configurable thresholds for crowd density alerts. Heat map generation for crowd distribution. Historical trend analysis	Riverfront, Bridges
6	Vandalism and Property Damage	Detection of acts of vandalism, intentional damage to public property, infrastructure, or surveillance equipment. Motion pattern analysis for aggressive behaviour. Automated alert with video evidence	All locations

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Sr. No.	Use Case	Functional Description	Applicable Locations
7	Unattended Object Detection and Tracking	Detection of objects left unattended beyond configurable time threshold. Backtracking to identify person who left the object. Object tracking across multiple cameras. Automated alert escalation	Riverfront, Bridges
8	Uncovered Debris in Trucks and Extended Metallic Elements	Detection of trucks carrying uncovered debris, sand, or construction material. Detection of extended metallic elements protruding from vehicles. Vehicle identification and evidence capture	Entry/Exit Points, Bridges, Riverfront
9	Over-Height Vehicle and Unauthorized Vehicle Entry	Detection of vehicles exceeding permissible height limits. Detection of unauthorized/blacklisted vehicles. Alert with vehicle details and ANPR data	Entry/Exit Points, Bridges
10	Spitting and Littering Detection	Detection of persons spitting in public spaces. Detection of littering (throwing garbage, wrappers). Evidence capture with person attributes	Riverfront, Bridges

10.8 Video wall

Sr. No.	Item	Minimum Specification
1	Display technology	LED
2	Pixel pitch	≤ 2.5 mm
3	Bezel	0 mm (seamless)
4	Brightness	≥ 800 nits (suitable for ICCC indoor environment, higher brightness acceptable)
5	Contrast ratio	≥ 5000:1
6	Viewing angle	≥ 140° (H/V), or better
7	Service/maintenance access	Front serviceable modules/cabinets (for ease of maintenance at site)
8	Life	≥ 100,000 hours
9	Operating environment	Indoor command & control room application (continuous operation)
10	Controller/processor	Compatible with existing ICCC video processing and signal distribution

Note: A list of existing Integrated Command and Control Centre (ICCC) components is available, and the proposed video wall shall be fully compatible with the existing ICCC infrastructure, including (but not limited to) signal distribution, controllers/processors, mounting/structural constraints, power availability, and room ergonomics. Vendors must explicitly confirm end-to-end interoperability with the deployed stack during bid submission and on site during commissioning.

10.9 Price Discovery Video Analytics Use Cases

Sr. No.	Use Case	Functional Description
1	Red Light Violation Detection (RLVD)	Multi-frame evidence (before, during, after violation). Synchronized with signal controller. ANPR for vehicle identification. Auto E-Challan generation with complete evidence package
2	Mobile Phone Usage While Driving	Detection of drivers using mobile phone while vehicle in motion. Evidence image capture showing phone in hand
3	No Helmet Detection	Detection of two-wheeler riders without helmets. Rider and pillion identification. Evidence capture
4	No Seat Belt Detection	Detection of front-seat occupants not wearing seat belts. Driver and co-driver identification
5	Wrong Side Driving	Detection of vehicles driving against designated traffic flow. Direction analysis against road configuration
6	Triple Riding (>2 on Two-Wheeler)	Detection of two-wheelers carrying more than 2 passengers. Evidence image with passenger count
7	Blocking Free Left / Stalled Vehicle	Detection of vehicles blocking free-left lane. Stalled vehicle detection causing traffic obstruction
8	Water Logging Detection	Detection of water accumulation on roads. Depth estimation through reference markers. Alert to civic authorities
9	Facial Recognition System	Identification of persons of interest against watch-list databases. Real-time face detection and matching. Minimum face size 100×100 pixels. Integration with law enforcement databases

11. Existing Integrated Command and Control Centre (ICCC) Component List

Integrated Command and Control Centre (ICCC) – Existing Component List					
SI No.	Item Name	UOM	Make	Model	Quantity
1	Operator Console & Ergonomic Chair	Nos.	Design Code	Operator Console (3monitors) H x W x D = 750mm X 1800mm X 900mm	25
2	Office Cubical & Chairs for office staff	Nos.	Design Code	OFFICE CUBICAL DESK H x W x D = 750mm X 3600mm X 1500mm	30
3	Online UPS for CCC & DC	Nos.	APTL	Arrow 150 KVA Online UPS	1
4	Building Management System	Nos.	Bajaj	Delta control	1
5	Fire Alarm system (for CCC & DC)	Nos.	Bajaj	SCP 3020	1
6	Access Control System (Biometric/RFID/Proximity based)	Nos	Bajaj	HID	1
7	Desktop PC's	Nos.	ACER	Verizon M200 Corei5	50
8	Video Wall Solution- in 9 X 3 arrangement (with video Controller) at Paldi	Nos.	Delta	LW-5580 TR IC- & Icon Pro Nos.	1
9	Video Wall Solution- in a 2 X 2 arrangement (with video Controller) at AMC HQ, Danapith	Nos.	Delta	LW-5580 TR IC- & Icon Pronaos.	1
10	Workstations (3monitors, CPU, Keyboard, mouse, etc.)	Nos.	ACER	Veriton M200 Corei7	25
11	Touch Monitor	Nos.	LG	84" Touch Screen - 84TR3B	4
12	Indoor Fixed Dome Cameras (25 for CCC & 1 for DC)	Nos	Lookman	Secura: SIP-20EH437W-D4	26
13	CCC Software (including implementation)	Nos.	Qognify	Situator Enterprise Server	1
14	Conference Table & chairs (for 8 personnel)	Nos.	Design Code	CONFERENCE TABLE FOR	1

Corrigendum 1 for the RFP for Selection of Implementation Agency for SITC, Operation, and Maintenance of Surveillance System in Ahmedabad City SASA II

Integrated Command and Control Centre (ICCC) – Existing Component List					
SI No.	Item Name	UOM	Make	Model	Quantity
				8 PERSON H x W x D = 750mm X 2400mm X 900mm	
15	Additional LED Displays	Nos.	LG	LED-55K160GAU, 2 x HDMI, 1 x USB	4
16	Phones/Communication system (IP Phones)	Nos.	Panasonic	KX – HDV 130	50
18	Conference table for 20 personnel with table top touch screens/capacitive, 84"	Nos.	Design Code	CONFERENCE TABLE FOR 20 PERSON H x W x D = 750mm X 9300mm X 4300mm & 84" Touch Screen - 84TR3B	1
19	DC Core Router	Nos.	Cisco	ASR1013	2
20	Internet Routers	Nos.	Cisco	ASR 903	2
21	DC Switch (L3 Switch)	Nos.	Cisco	Catalyst 3850	2
22	48 port L2 switch	Nos.	Cisco	Catalyst 3850	5
23	UTM	Nos.	Fortinet	FG-3000D, FWB-2000E, FML-200E	2
23	Blade Server with chassis	Nos.	Dell & Symantec	PowerEdge(TM) & Data Centre Security Server Advanced	119 blades
24	Server Load Balancer	Nos.	Array	AVX 7600	2
25	24U Network Rack	Nos.	Netrack	24U Rack Frame	7
26	42U Server Rack	Nos.	Netrack	42U Rack	12
27	42U Network Rack	Nos.	Netrack	42U Rack	2
28	Enterprise Management System (incl. Licenses, Hardware, Software, Installation)	Nos.	Mota data	MD-ET-IIP-10000 MD-ET-AM-10000 MD-ET-SD-Base	1
29	Storage (Applications; Capacity 10 TB)	Nos.	Dell	R730	1
30	Storage (Video feeds; Capacity 5.5 PB)	Nos.	Dell	ISILON NL 410	1

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Integrated Command and Control Centre (ICCC) – Existing Component List					
SI No.	Item Name	UOM	Make	Model	Quantity
31	Antivirus Software License	Nos.	Symantec	Endpoint Protection	10
32	VMS Software & Video Analytics (8 Channel)	Nos.	Qognify	Nice Vision Enterprise Software & Single Video Analytics	1
33	VMS: Licenses for Camera	Nos.	Qognify	License for Nice Vision Enterprise	7000
34	VMS Workstation Licenses	Nos.	Qognify	VMS Client	100
35	RDBMS Licenses	Nos.	WinSvrDC Coreand	RDBMS	1
36	Junction Box (adjustable trays)	Nos.	Rohan	Customized	85
37	Junction Box (pole mounted)	Nos.	Customized	Customized	290
38	Managed Outdoor L2 Switch PoE (8-port)	Nos.	D-Link	DGS-F1210-10MP	695
39	Managed Outdoor L2 Switch PoE (Fiber Port)	Nos.	D-Link	DIS-F200-10PS	800
40	6U Rack	Nos.	Netrack	6U/500	1064
41	UPS for AMC Locations	Nos.	ARROW	600VA LI	100
42	Poles incl. mounting	Nos.	Valmont	Customized	522
43	IP Camera Type B: Surveillance	Nos.	Lookman	Secura: SIP-20EH4W-BO2	2840
44	IP Camera Type B (Motorized Zoom)	Nos.	Lookman	Secura: SIP-20EH4W-BO2	210
45	IP Camera Type C: PTZ	Nos.	Lookman	Secura: SIP-20SH5336W-P5S & Illuminator - SIR-o86oPI®	224
46	LED Display Boards (7.2m x 2.7m) Type-1 (P10)	Sq. Mtr.	Delta	Outdoor LED Display system SE-10	720
47	Monopole for LED Display board	Nos.	Delta	Standard	126
48	LED Display Boards (7.2m x 2.7m) Type-2 (P8)	Sq. Mtr.	Delta	Outdoor LED Display system SE-8	2304
49	Gantry for LED Display board	Nos.	Delta	Standard	4
50	Outdoor Wi-Fi Access Points (incl. Cloud Controller Licenses)	Nos.	Cisco	AP1562 with Virtual Controller	300

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Integrated Command and Control Centre (ICCC) – Existing Component List					
SI No.	Item Name	UOM	Make	Model	Quantity
51	Indoor Wi-Fi Access Points (incl. Cloud Controller Licenses)	Nos.	Cisco	AP1815I with Virtual Controller	300
52	Environmental Sensors	Nos.	PAQS	PAQ ES, RWS001, WSD001	50
53	Managed 24-Port Switch for Zonal Offices	Nos.	Cisco	2960-X	6
54	Aggregation Router for Zonal Offices	Nos.	Cisco	ASR1006	6
55	Edge Router (Wi-Fi Hotspot)	Nos.	Cisco	ISR4331	45
56	CCTV Sign Board	Nos.	Standard	Standard	1137
57	Adaptive Traffic Control Systems	Nos.	DIMTS	CDAC-based ATCS (Junctions)	10
58	Video Wall Solution (10x6 arrangement)	Nos.	Delta	LW-5580 TR IC & Icon Pro	1
59	Additional LED Displays for News	Nos.	LG	LED-55K160GAU	4
60	Touch Monitors for CCC	Nos.	LG	84" Touch Screen - 84TR3B	4
61	Monitoring Workstations (3 monitors)	Nos.	ACER	Veriton M200 Core i7	50
62	Indoor Fixed Dome Cameras	Nos.	Lookman	Secura: SIP-20EH437W-D4	10
63	Online UPS for TCC & DC	Nos.	APTL	Arrow 150 KVA Online UPS	1
64	Server Load Balancer	Nos.	Array	AVX 7600	2
65	Core Router	Nos.	Cisco	ASR1006	2
66	L3 Core Switch	Nos.	Cisco	Catalyst 3850	2
67	48-port L2 Switch	Nos.	Cisco	Catalyst 3850	2
68	24-port Switch	Nos.	Cisco	2960-X	2
69	Storage (Applications; 10TB)	Nos.	Dell	R730	1
70	Storage (Video feeds; 5.5PB)	Nos.	Dell	ISILON NL 410	1
71	Antivirus Software License	Nos.	Symantic	Endpoint Protection	10
72	RDBMS License	Nos.	WinSvrDCCoreand RDBMS	NA	1

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Integrated Command and Control Centre (ICCC) – Existing Component List					
SI No.	Item Name	UOM	Make	Model	Quantity
73	24U Network Rack	Nos.	Netrack	24U Rack Frame	1
74	42U Network Rack	Nos.	Netrack	42U Rack	2
75	42U Server Rack	Nos.	Netrack	42U Rack	12
76	Fire Safety System with alarms	Nos.	Bajaj	SCP 3020	1
77	Monitoring Workstations (3 monitors)	Nos.	ACER	Veriton M200 Corei7	10
78	Indoor Fixed Dome Cameras	Nos.	Lookman	Secura: SIP-20EH437W-D4	1
79	Additional LED Displays	Nos.	LG	LED-55K160GAU	4
80	Touch Monitors	Nos.	LG	84" Touch Screen - 84TR3B	1
81	Monitoring Workstations (3 monitors)	Nos.	ACER	Veriton M200 Corei7	1
82	Indoor Fixed Dome Cameras	Nos.	Lookman	Secura: SIP-20EH437W-D4	1
83	Desktop PCs	Nos.	ACER	Veriton M200 Corei5	15
84	Indoor Fixed Dome Cameras	Nos.	Lookman	Secura: SIP-20EH437W-D4	1
85	LED TVs	Nos.	LG	LED-55K160GAU	1
86	Desktop PCs	Nos.	ACER	Veriton M200 Corei5	1
87	Indoor Fixed Dome Cameras	Nos.	Lookman	Secura: SIP-20EH437W-D4	1
88	Additional LED Displays	Nos.	LG	LED-55K160GAU	2
89	Monitoring Workstations (3 monitors)	Nos.	ACER	Veriton M200 Corei7	1
90	Indoor Fixed Dome Cameras	Nos.	Lookman	Secura: SIP-20EH437W-D4	1
91	Poles including mounting	Nos.	Valmont	Customized	690
92	Gantry including mounting	Nos.	Valmont	Customized	520
93	Junction Box	Nos.	Oorja/Rohan	Customized	215

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Integrated Command and Control Centre (ICCC) – Existing Component List					
SI No.	Item Name	UOM	Make	Model	Quantity
94	IP Camera (Type A): ANPR	Nos.	Lookman	SIP-20EH5W-BO4 & Illuminator	2142
95	IP Camera (Type A): RLVD	Nos.	Lookman	SIP-120EH5W-BO5S & Illuminator	520
96	IP Camera Type C: PTZ	Nos.	Lookman	SIP-20SH5336W-P5S	304
97	Public Address System	Nos.	Commend	PA System C-AF250I	95
98	Managed Outdoor L2 Switch PoE	Nos.	D-Link	DIS-F200-10PS	250
99	Managed Outdoor L2 Switch PoE (Fiber)	Nos.	D-Link	DIS-F200-10PS	130
100	CCTV Sign Board	Nos.	Vishvam	Approx	563
101	PA System Software & Licenses	Nos.	Commend	PA System Nos.	1
102	Automatic Voltage Stabilizer	Nos.	APTL	ARROW 3KVA AVR	356
103	Surge Protection Power Strip	Nos.	APTL	ARROW SPD 500 J	356
104	400W Sodium Vapor Lamp --LED	Nos.	Suveg	ACON Smart LED Street Lights - Type 3	4000
105	250W Sodium Vapor Lamp --LED	Nos.	Suveg	ACON Smart LED Street Lights - Type 2	1000
106	150W Sodium Vapor Lamp --LED	Nos.	Suveg	ACON Smart LED Street Lights - Type 1	1000

Corrigendum 1 for the RFP for Selection of Implementation Agency for SITC, Operation, and Maintenance of Surveillance System in Ahmedabad City SASA II

12. List of locations

Indicative list of Entry and Exit Roads of Ahmedabad city for SITC of Cameras:

Sr. No	Police Station Name	Strategic Point for CCTV Installation	Latitude	Longitude
1	Sola High Court	Bhadaj Circle	23.084226	72.493041
2	Sola High Court	Ognaj Circle	23.120838	72.508215
3	Sola High Court	Babylon Club Cut	23.090986	72.495540
4	Sola High Court	New Science City Road	23.107418	72.501570
5	Adalaj	Apollo Bhat Circle, Indira Bridge Airport Main Road	23.116850	72.631299
6	Chandkheda	Cut from SP Ring Road towards Sadi Mata Temple, Motera	23.117900	72.617140
7	Chandkheda	Tapovan Circle	23.118734	72.614124
8	Chandkheda	Cut from SP Ring Road towards TP 44 NY Cinema, Motera	23.120996	72.609695
9	Chandkheda	TP 44 Cut towards Balaji Bungalows	23.123252	72.604351
10	Chandkheda	Cut from SP Ring Road towards TP 44 HB Kapadia School	23.125849	72.698253
11	Chandkheda	Zundal Circle, Main Road Gandhinagar to Chandkheda Bus Stand	23.130457	72.584970
12	Chandkheda	Road from SP Ring Road near Sarvottam Hotel towards Zundal Mukti Dham	23.130697	72.583048
13	Chandkheda	Cut from SP Ring Road towards New Chandkheda near Canal	23.131739	72.575078
14	Chandkheda	Road from SP Ring Road towards Maple Parmeshwar Scheme, Sneh Plaza	23.132313	72.571273
15	Chandkheda	Road from SP Ring Road towards The Hillock Hotel to Tragad	23.132765	72.567393
16	Sabarmati	Road from SP Ring Road near McDonald's Hotel to Tragad	23.133479	72.563025
17	Sabarmati	Main Road from SP Ring Road to Tragad Village, Rainbow Restaurant Cut	23.135109	72.550351
18	Sabarmati	Cut from SP Ring Road towards Gala Havens Scheme, behind Nirma University	23.135573	72.546792
19	Sabarmati	Cut near Zydus Corporate Office towards Tragad Village	23.132817	72.541921
20	Sabarmati	Cut from SG Highway towards Jagatpur Village	23.115018	72.536954
21	Sabarmati	Cut from SG Highway near Sleep Business Building towards Malabar County Scheme	23.126259	72.540026
22	Sabarmati	Cut from SG Highway towards Charodi Village	23.124286	72.549488
23	Sardarnagar	Indira Circle Exit Cameras	23.085800	72.629673
24	Sardarnagar	Airport Road towards Chiloda	23.090292	72.651838

Corrigendum 1 for the RFP for Selection of Implementation Agency for SITC, Operation, and Maintenance of Surveillance System in Ahmedabad City SASA II

Sr. No	Police Station Name	Strategic Point for CCTV Installation	Latitude	Longitude
25	Naroda	Toyota Showroom Nana Chiloda	23.098939	72.666962
26	Naroda	Bridge Entry from Himmatnagar to Ahmedabad	23.105989	72.670582
27	Naroda	Chiloda Circle Ring Road under Bridge	23.111294	72.672988
28	Naroda	Naroda Dahegam Road under Bridge	23.089132	72.687046
29	Naroda	Dastan Circle	23.066339	72.688977
30	Naroda	Swarnil Heights Vasant Vihar-2 New Naroda	23.070238	72.687772
31	Naroda	Hanspura Village Road Vasant Vihar-2 New Naroda	23.076787	72.687741
32	Naroda	Gandhinagar Bhat Circle Entry Bridge	23.245277	72.685474
33	Naroda	Exit towards Ahmedabad Karai	23.115638	72.658442
34	Ramol	Adani Circle	22.977730	72.662030
35	Ramol	Vastral Ring Road Crossroads	22.997480	72.662030
36	Ramol	Panjarapole Crossroads	23.008680	72.665030
37	Ramol	Odhav Ring Road Circle	23.025230	72.672980
38	Odhav	On Odhav Bridge	23.025230	72.672980
39	Odhav	On Odhav Bridge	23.031020	72.674330
40	Odhav	Kathwada Crossroads	23.038460	72.677260
41	Nikol	Road towards Gangotri Circle	23.038460	72.677260
42	Nikol	Galaxy Intercity Crossroads	23.052030	72.685010
43	Narol	Vatva Canal opposite Nayara Petrol Pump	22.931475	72.608967
44	Narol	Lambha Cut opposite Omkar Furniture	22.926127	72.574092
45	Vatva	Under Ropda Bridge	22.938546	72.635552
46	Vatva	Gamdi Canal	22.934328	72.621341
47	Vatva	T-Cut towards Bachubhai's Well	22.935926	72.625299
48	Vatva	Parth Indian Petrol Pump	22.935589	72.624171
49	Vatva	T-Cut near Dev Washing towards Vatva Village	22.933108	72.618582
50	Vatva	In front of Parijat Business Center	22.934231	72.618582
51	GIDC Vatva	Hathijan Circle	22.957627	72.656518
52	GIDC Vatva	Saraswati School Crossroads near Vizal Village	22.944254	72.645418
53	GIDC Vatva	Ropda Bridge near Paradise Park SP Ring Road	22.943168	72.643867
54	Bodakdev	Science City Crossroads	23.084261	72.492729
55	Bodakdev	Hebatpur Village Cut	23.0074158	72.489178
56	Bodakdev	Bhadaj Village Cut TP Road	23.0801062	72.490684
57	Bodakdev	Nandoli Shela Cut TP Road	23.0745650	72.488438
58	Bodakdev	Hari Om Paratha Cut after Shela Crossroads	23.0653635	72.485165
59	Sarkhej	Sumukhvila Road	23.039915	72.479884
60	Sarkhej	Rajpath Club Cut	23.036183	72.478976
61	Sarkhej	Ambli Arum Heights	23.032379	72.478723
62	Sarkhej	Ambli Cut	23.028659	72.477189
63	Sarkhej	Ambli Road	23.025674	72.476783
64	Sarkhej	Mumtampura Road	23.018759	72.480136
65	Sarkhej	Karnavati Club Road	23.009622	72.477595
66	Sarkhej	Bakarol Circle	22.937089	72.497819

Corrigendum 1 for the RFP for Selection of Implementation Agency for SITC, Operation, and Maintenance of Surveillance System in Ahmedabad City SASA II

Sr. No	Police Station Name	Strategic Point for CCTV Installation	Latitude	Longitude
67	Sarkhej	Bakarol Canal Road	22.938994	72.493331
68	Sarkhej	Bakarol Circle near Kiran Motors	22.953620	72.480843
69	Sarkhej	Sanathal Circle	22.961999	72.475730
70	Sarkhej	Near Mohannagar Sanathal	22.970447	72.474890
71	Sarkhej	Mohannagar Sanathal	22.973942	72.473451
72	Sarkhej	Gir Gaushala Road Sanathal	22.981410	72.471266
73	Sarkhej	Setelsky Road Shantipura	22.983463	72.471396
74	Sarkhej	Shantipura Circle opposite Service Road	22.987571	72.471575
75	Sarkhej	LJ College Road Shantipura	22.991958	72.472328
76	Sarkhej	Applewood Shela Road Pancha Talav Village Shantipura	22.994880	72.472769
77	Sarkhej	Near Surya Project Applewood	22.999384	72.474070
78	Sarkhej	Column 07 Road Shela Cut	23.003329	72.475527
79	Sarkhej	Sobo Center Road Bopal	23.013920	72.479470
80	Sarkhej	Bridge from Sanathal to Shantipura	22.983258	72.471054
81	Sarkhej	Shantipura Circle	22.987532	72.471568
82	Sarkhej	Shantipura Bridge descending towards Bopal	22.995786	72.472533
83	Sarkhej	Shela Village Bopal Cut Bridge	22.995788	72.472496
84	Sarkhej	Kakana Dhaba Crossroads	23.009621	72.477493
85	Sarkhej	Bopal Sun City Cut near Vakil Saheb Overbridge	23.019674	72.479446
86	Sarkhej	Under Satyamev Elite Bridge	23.025674	72.476374
87	Sarkhej	Under Vakil Saheb Bridge	23.028683	72.476847
88	Sarkhej	Opposite Skylight Building	23.033348	72.478117

Corrigendum 1 for the RFP for Selection of Implementation Agency for SITC, Operation, and Maintenance of Surveillance System in Ahmedabad City SASA II

Indicative list of Bridge Location Cameras:

Sr. No.	Bridge Name
1	Vinzol Vatva Minor Bridge (Yashod - Ring Road - N. Kharikat Canal)
2	Isanpur Gebanshah Dargah (N. Kharikat Canal)
3	Odhav Fire Station - Near Canal Box Culvert
4	Hatkeshwar Cross Road Flyover Bridge (Four Lane - Chhatrapati Shivaji Maharaj)
5	Garib Awas Indrapuri Ward (Culvert)
6	Jashoda - Ahmedabad Road - Near Nirmani
7	Vatva Lambha Sadani Left Kharikat Canal (Culvert)
8	Level Crossing - 1 IOC Crossing Railway Underbridge (RVNL)
9	Khokhra Railway Overbridge (Near Anupam)
10	Vinoba Bhave Nagar to Vivekanand Nagar
11	Level Crossing - 26 Makraba Crossing
12	Level Crossing - 241 Umabhavani Chanakheda Railway Under bridge
13	Level Crossing - 17 Paldi Jamalpur Railway Underpass
14	Ghodasar Flyover Bridge
15	Level Crossing - 242 IOC Chandkheda Railway Under bridge
16	Level Crossing - 243 D Cabin Sabarmati Railway Under bridge
17	Level Crossing - 2 Chenpur Railway Underbridge