

## **Request for Proposal**

For

“Selection of System Integrator (SI) for implementation of e-Challan system with advanced analytics for Ahmedabad City”

RFP Notification No: SCADL\_RFP\_23-24\_01

Issued By:

Smart City Ahmedabad Development Limited

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## 2. Disclaimer

The information contained in this Request For Proposal (“RFP”) whether subsequently provided to the service providers, (“service provider/System Integrators”) verbally or in documentary form by Smart City Ahmedabad Development Limited (henceforth referred to as “SCADL” in this document) or any of its employees or advisors, is provided to service provider on the terms and conditions set out in this RFP document and any other terms and conditions subject to which such information is provided. This RFP document is not an agreement and is not an offer or invitation to any party. The purpose of this RFP is to provide the service providers or any other person with information to assist the formulation of their operational plan. This RFP includes statements, which reflect various assumptions and assessments arrived at by SCADL in relation to this scope. This RFP document does not purport to contain all the information each service provider may require. This RFP document may not be appropriate for all persons, and it is not possible for the Chief Executive Officer, SCADL and their employees or advisors to consider the objectives, technical expertise and particular needs of each service provider. The assumptions, assessments, statements and information contained in the RFP documents, may not be complete, accurate, adequate or correct. Each service provider must therefore conduct its own analysis of the information contained in this RFP and to seek its own professional advice from appropriate sources. Information provided in this RFP document to the service provider is on a wide range of matters, some of which may depend upon interpretation of law. The information given is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. SCADL accepts no responsibility for the accuracy or otherwise for any interpretation of opinion on law expressed herein. SCADL and their employees and advisors make no representation or warranty and shall incur no liability to any person, including the service provider under law, statute, rules or regulations or tort, the principles of restitution or unjust enrichment or otherwise for any loss, cost, expense or damage which may arise from or be incurred or suffered on account of anything contained in this RFP or otherwise, including the accuracy, reliability or completeness of the RFP, and any assessment, assumption, statement or information contained therein or deemed to form part of this RFP or arising in any way in this Selection Process. SCADL also accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any Bidder upon the statements contained in this RFP. SCADL may in its absolute discretion, but without being under any obligation to do so, can amend or supplement the information in this RFP. The issue of this RFP document does not imply that SCADL is bound to select a service provider or to appoint the Selected operator (as defined hereinafter), for implementation and SCADL reserves the right to reject all or any of the service provider or proposals without assigning any reason whatsoever. The service provider shall bear all its costs associated with or relating to the preparation and submission of its RFP proposal including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by SCADL or any other costs incurred in connection with or relating to its Bid. All such costs and expenses will remain with the service provider and SCADL shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by a service provider in preparation for submission of the RFP proposal, regardless of the conduct or outcome of the selection process.

### 3. Notice Inviting Proposal and Necessary Instruction

Proposals in prescribed proforma are invited by SCADL from eligible parties for this RFP.

1.	Scope of Work	Implementation of e-Challan system with advanced analytics for Ahmedabad City
2.	Tender submission Cost	Rs. 18,000 /- (Rs. Eighteen Thousand Only) In the form of Demand Draft / Banker's Cheque in favor of "Smart City Ahmedabad Development Limited" drawn on any scheduled / nationalized bank and payable at Ahmedabad.
3.	EMD (bid Security / Security deposit)	Rs. 50,00,000/- (Rs. Fifty Lacs Only) Demand Draft in favor of "Smart City Ahmedabad Development Limited" drawn on any scheduled bank and payable at Ahmedabad OR EMD in the form of bank guarantee with validity of 180 days from the last date of bid submission in favor of "Smart City Ahmedabad Development Limited" from <ul style="list-style-type: none"> <li>All Nationalized banks including the Public sector banks - IDBI Ltd.</li> <li>Private sector banks - AXIS Bank, ICICI Bank and HDFC Bank</li> </ul>
4.	Office issuing RFP	Chief Finance Officer (CFO), Smart City Ahmedabad Development Limited, Command and Control Centre, Opp. Divan Ballubhai School, Nr. Sanskar kendra, Paldi, Ahmedabad-380007
5.	Contract Period	1 year implementation phase from the date of issue of WO & 5 years of O&M which can be extended further for next 2 years on mutual agreement.
6.	Bid validity days	180 days from the last date of submission of bids
7.	Issue of Tender	The tender can be downloaded from below websites. <a href="https://ahmedabadcity.gov.in">https://ahmedabadcity.gov.in</a> <a href="https://www.nprocure.com/">https://www.nprocure.com/</a>
8.	Queries by email	Bidders shall have to post queries by email to smartcity@ahmedabadcity.gov.in, scadl.amc@gmail.com on or before 30/01/2024 up to time 03:00 pm
9.	Pre-Bid	Pre-bid will be held on 30/01/2024 at 03:00 pm at Smart City Ahmedabad Development Limited, Command and Control Centre, Opp. Divan Ballubhai School, Nr. Sanskar kendra, Paldi, Ahmedabad-380007

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10.	Proposal due date (last date & time of Tender submission)	Tender should be submitted before 14/02/2024 at 05:00 pm. Bidder shall upload their bids on <a href="https://www.nprocure.com/">https://www.nprocure.com/</a>
11.	Submission (in Hard Copy)	Complete duly signed RFP & proposal in sealed envelope with relevant details may be submitted to reach at following address before 14/02/2024 at 05:30 pm.  Smart City Ahmedabad Development Limited, Command and Control Centre, Opp. Divan Ballubhai School, Nr. Sanskar kendra, Paldi, Ahmedabad-380007
12.	Date & Time of opening of Tender	Technical Qualification documents will be opened on 14.02.2024 at 05:30 pm in the presence of bidders' representative. Qualified bidders would be subsequently informed later about the date, time and venue for price bid opening.
13.	Contact persons (For Clarifications) any	Chief Finance Officer (CFO), Smart City Ahmedabad Development Limited, Command and Control Centre, Opp. Divan Ballubhai School, Nr. Sanskar kendra, Paldi, Ahmedabad-380007

**Relaxation to Micro, Small & Medium Enterprises :**

1. The firms registered under MSME are exempted from submitting the Earnest Money Deposit (EMD).
2. If a bidder falls under MSME, then a copy of the registration certificate must be provided to SCADL along with the proposal. Further, the bidder must keep SCADL informed of any change in the status of MSME. MSME certificate must clearly mention the products / services asked in this tender, then only MSME exemption shall be accepted. SCADL will have final rights to accept or reject the registration certificate based on mentioned products / services.



## **4. Introduction and background**

Ahmedabad is one among forefront in implementation of smart initiatives for urban development projects. Under Smart City Mission Ahmedabad has implemented several new projects namely, Integrated Transport Management System (ITMS), City Surveillance project, e-Challan, Smart Anganwadi, Smart Public Toilet, Digital Payment and establishment of Integrated City Command and Control Centre with several e-Governance projects.

As per the GoI guidelines, Ahmedabad Municipal Corporation (AMC) has formed a Special Purpose Vehicle (SPV) as Smart City Ahmedabad Development Limited (SCADL) for the implementation of projects under the smart city mission. SCADL executes the task of project design, tender preparation, bid process management, selection and on-boarding of implementation agency. SCADL work closely with user departments from AMC and other government departments in implementation and operationalization of various smart city projects.

Ahmedabad was selected among the first 20 Smart Cities in India under the Smart Cities Mission of the Ministry of Housing and Urban Affairs considering the proposals submitted by the Ahmedabad Municipal corporation. A Special Purpose Vehicle (SPV) was formed in 2016 under the mission guidelines and was named as Smart City Ahmedabad Development Limited (SCADL). It carries the end-to-end responsibility for vendor selection, implementation, and operationalization of various Smart City Projects.

The objective was to promote sustainable and inclusive cities that provide core infrastructure and give a decent quality of life to its citizens, a clean and sustainable environment and application of Solutions. Most of the ICT initiatives proposed and being implemented by Ahmedabad city have been identified with a predominant objective to improve public safety and surveillance, traffic management, public services quality, emergency response and real time tracking of municipal services.

### **4.1 About SASA-ICCC project**

SASA-ICCC project has various smart solutions like Integrated Command and Control Center, Smart surveillance system, Smart traffic management system, Public Wi-Fi hotspots, LED/Digital Display panel/boards, and various type of sensors, smart lighting etc. riding on the Pan city ICT infrastructure and city wide point to point connectivity network.

SCADL, AMC and Ahmedabad Police Department, Ahmedabad are the major stakeholders of the entire project. Wherein Police department are utilizing video feeds for city surveillance and intelligent traffic management of the entire city and SCADL is utilizing video feeds and other sensor deployed under the project for efficient and effective management of the municipal services and city operations.

## **4.2 Objective of RFP**

Smart City Ahmedabad Development limited (SCADL) seeks proposal from the interested bidders for implementation of e-Challan system with advanced analytics for Ahmedabad city. SCADL is looking for agency to supply, install and test & configure the COTS e-Challan software / application with advanced analytics along with its related database(s) as mentioned in Scope of Work of this RFP, integrate it with other applications and operate & maintain entire system for entire contract duration.

## 5. Scope of Work

SITC and O&M of COTS e-Challan software / application with advanced analytics along with its related database(s)

- SASA is a pan city ICT infrastructure project.
- Previous Tender Doc reference (Original tender published in 2017 for SITC and O&M of SASA network) : <https://smartnet.niua.org/content/22e31f66-34a5-4564-946f-bea9fcfd6db0>
- All the bidders may refer previous tender document (as mentioned in above point) to get the complete clarity on various hardware & software components procured under this project earlier.
- **SCADL has already published separate RFP for “selection of System Integrator (SI) for O&M of Safe & Secure Ahmedabad (SASA) project infrastructure with Integrated Command Control Centre, Edge Devices and allied software”. Selected bidder of this RFP will have to support, coordinate & synchronize all required efforts with selected bidder of O&M RFP (and may be existing SI of SCADL) to ensure overall successful implementation & running of SASA project infrastructure along with e-Challan software / application.**
- O&M Tender Doc reference:  
[https://drive.google.com/drive/folders/1idBYfnwWoK2OWbe1QZXvUSuBpjzH1Ptm?usp=s\\_haring](https://drive.google.com/drive/folders/1idBYfnwWoK2OWbe1QZXvUSuBpjzH1Ptm?usp=s_haring)

The scope of work under this RFP covers below mentioned **20 Use cases, additional features & Mobile application** along with functional requirements to be implemented in e-Challan application / solution.

### 5.1 Use cases

The use cases mentioned below are to be run at cameras positioned at 130 junctions. Please find below bifurcation, quantity and type of cameras at junctions along with camera count for PTZ and BRTS Stations:

Sr. No.	Type of Cameras	Count
1	ANPR cameras at junctions	1542
2	RLVD cameras at junctions	457
3	ANPR Cameras at BRTS	249
4	PTZ	304

This section deals with 20 Use cases along with their bucket wise bifurcation of the Use cases and detailed functional requirements.

Sr. No	Function	Use Case	Use case to be applied at / Data Source	Stakeholders	Correlation between RLVD & ANPR required
1	Traffic	Red Light Violation Detection / Stop Line Violation Detection	RLVD cameras installed at junctions.	Police	Yes
2	Traffic	Wrong Side Driving detection	RLVD cameras installed at junctions.	Police	Yes
3	Traffic	Not wearing seat belt detection	RLVD cameras installed at junctions.	Police	Yes
4	Traffic	Not wearing helmet detection	RLVD cameras installed at junctions.	Police	Yes
5	Traffic	Use of Mobile Phone while driving	RLVD cameras installed at junctions.	Police	Yes
6	Traffic	View ambient volume count of all types of vehicles with bifurcation of types of vehicle in at least defined categories of 2W, 3W, car, Bus, LCV, HCV, MPV, HGV, HPV, LGV and LMV across all junctions in the city with a facility to drill down volume count on each arm.	RLVD cameras installed at junctions.	Police / AMC / SCADL	No
7	Traffic	Detection of more than two passenger on two-wheeler.	RLVD cameras installed at junctions.	Police	Yes
8	Traffic	Detection of violation of entry prohibitory notification by heavy goods / passenger vehicles	RLVD cameras installed at junctions.	Police	Yes
9	Traffic	Detection of lane violation blocking free left traffic by entering wrong lane	RLVD cameras installed at junctions.	Police	Yes

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Sr. No	Function	Use Case	Use case to be applied at / Data Source	Stakeholders	Correlation between RLVD & ANPR required
10	Safety	Detection of faded stop lines & zebra crossings	RLVD cameras installed at junctions.	Police / AMC	No
11	Safety	Identify unattended objects, baggage, vehicle in a given camera feed with help of analytics.	PTZ Cameras in the city	Police / AMC	No
12	Civic Administration	Spitting Detection	RLVD cameras installed at junctions.	SCADL / AMC	Yes
13	Civic Administration	Detection of cattle on road.	PTZ Cameras in the city	SCADL / AMC	No
14	Civic Administration	Detection of uncovered debris in truck & extended metallic elements outside of heavy vehicles.	RLVD cameras installed at junctions.	Police / SCADL / AMC	Yes
15	Civic Administration	Detection of garbage on road.	Video Feed obtained from Crowdsourcing	SCADL / AMC	No
16	Civic Administration	Detection of damaged infrastructure.	Video Feed obtained from Crowdsourcing	SCADL / AMC	No
17	Traffic	Parking rule violation detection.	Video Feed obtained from Crowdsourcing	Police	No
18	Civic Administration	Detection of potholes on the road.	Video Feed obtained from Crowdsourcing	SCADL / AMC	No
19	Civic Administration	Detection of Water Logging areas	Video Feed obtained from Crowdsourcing	SCADL / AMC	No
20	Traffic	Unauthorized vehicle in BRTS lane.	249 ANPR cameras positioned at BRTS Stations	Police	No

Note : Data source mentioned as RLVD & correlation requirement details mentioned in above table is indicative. Successful bidder will be responsible to successfully implement use cases / functionalities through entire e-Challan application suit to achieve desired outcome.

**Use case 1: 5.1.1 Area Traffic Control System:**

- Area traffic Control System (ATCS) uses a centralized algorithm based logic to regulate the traffic and identify the traffic volume based on video analytic technique to monitor the traffic behavior on various corridors of the city, based on the real-time data collected by the systems. The key objectives of the ATC system are as follows:
  - Enhancing the traffic management capabilities of the city

- ii. Efficiently detect red light violation, over speeding & other use cases as defined in this RFP and identify vehicle registration number
- iii. Reduce violation trends

### **Red Light Violation Detection / Stop Line Violation Detection System**

1. The RLVD system should use the Video/Image processing techniques to identify the red-light violations.
2. The RLVD system Including ANPR capabilities should be integrated with the various application and Databases like e-GujCop, RTO Database (Vahan, Sarathi), one nation one challan application and e-Challan application (to be developed under this project) etc. such that e-Challans can be generated by the system through an automated process.
3. The RLVD system and related videos as well as the surveillance video feed should go to the CCC, wherein the Red-Light violation and its Number plate detection shall take place in real time.
4. The system should be capable of identifying & capturing of vehicles traveling through a signalized intersection during the 'red' signal phase during 24x7 (both day and Night) and recording a series of violation images that track the whole violation event.
5. The system should be able to capture the image of the violating Vehicle along with the active Red Light (in red colour), as a proof of the violation.
6. The system should be able to perform OCR (optical character recognition) of number plates (Read and Detect) written in English, hindi, gujarati with character in standard or non-standard fonts, unusual characteristics like Different size characters, font, colors, special characters etc.
7. The system should be able to do simultaneous monitoring of multiple lanes and should be able to identify multiple Red Light Violations simultaneously within the same lane/ Road.
8. The RLVD system should have both the options, one for integration with the Red Light Signaling System controller and second it should be able to sense the Red-light signal using pixel based change detection and identify violators based on it.
9. 'Scene' images will be captured showing the red signal in the direction of vehicle's travel.
10. The System should be able to read and identify the Registration plate of the vehicle violating the Red Light through the ANPR system.
11. The system should be able to capture and provide Video Feed from the RLVD application (Server side) for a duration for which the RED Signal is active for that section of the Road.
12. The system should also be able to detect Stop Line Violation Detection (SLVD) in case the vehicle had not travelled through a signalized intersection, but had just crossed the stop line & stopped there during the 'red' signal phase.
13. The System should be able to identify and log Red Light Violations / Stop Line Violation with minimum accuracy of 90%.
14. The system should be able to generate various MIS reports like vehicle(s) violating rules, Vehicle details, violation type along with date and time stamp and week / Month / Year wise reports.

### **Use case 2: 5.1.2: Wrong side driving detection**

1. The system should be capable enough to detect from the raw video feed if the vehicle driver in all types of 2 wheeler, 3 wheeler, 4 wheeler & larger vehicles is driving the vehicle on wrong side of the road.
2. The purpose of this use case is to identify violators if they are driving on the wrong side of the road. This use case is to be run on feed received from RLVD Cameras placed at 130 junctions in the city.
3. Every violation should automatically create a challan, a report including vehicle number plate of the violators, date& time, location in a format to be provided and created image / video snippets of duration to be specified and such report should be stored automatically with due indexing.
4. The system should detect this violation during 24x7 (both day and Night) with minimum 70% accuracy for implementation milestone approval & till end of 1<sup>st</sup> year of O&M. Accuracy is to be increased by 10% every year after 1<sup>st</sup> year of O&M. Maximum accuracy of 90% is to be achieved (above 90% accuracy is desirable but will not be liable for penalty if not achieved.)

### **Use case 3: 5.1.3: No seat belts / safety belts detection system**

1. The system should be capable enough to detect from the raw video feed if the vehicle driver & co-passenger in front seat in all types of 4 wheeler or larger vehicles haven't wore seat belt / safety belt.
2. This use case is to be run on feed received from RLVD Cameras placed at 130 junctions in the city.
3. Every violation should automatically create a challan, a report including vehicle number plate of the violators, date& time, location in a format to be provided and created image / video snippets of duration to be specified and such report should be stored automatically with due indexing.
4. The system should detect this violation during 24x7 (both day and Night) with minimum 70% accuracy for implementation milestone approval & till end of 1<sup>st</sup> year of O&M. Accuracy is to be increased by 10% every year after 1<sup>st</sup> year of O&M. Maximum accuracy of 90% is to be achieved (above 90% accuracy is desirable but will not be liable for penalty if not achieved.).

### **Use case 4: 5.1.4: Not wearing helmet detection**

1. The system should be capable enough to detect from the raw video feed if the vehicle driver & co-passenger in back seat in all types of 2 wheeler vehicles haven't wore helmet.
2. Every violation should automatically create a challan, a report in the format to be provided and created image / video snippets of duration to be specified and such report should be stored automatically with due indexing.

3. The system should detect this violation during 24x7 (both day and Night) with minimum 70% accuracy for implementation milestone approval & till end of 1<sup>st</sup> year of O&M. Accuracy is to be increased by 10% every year after 1<sup>st</sup> year of O&M. Maximum accuracy of 90% is to be achieved (above 90% accuracy is desirable but will not be liable for penalty if not achieved.)

#### **Use case 5: 5.1.5: Detection of use of mobile phone while driving**

1. The system should be capable enough to detect from the raw video feed if the vehicle driver in all types of 2-wheeler, 3 wheeler, 4 wheeler & larger vehicles is using the mobile phone (for viewing the mobile screen as well as talking by holding mobile phone in hand) while driving.
2. Every violation should automatically create a challan, a report in the format to be provided and created image / video snippets of duration to be specified and such report should be stored automatically with due indexing.
3. The system should detect this violation during 24x7 (both day and Night) with minimum 70% accuracy for implementation milestone approval & till end of 1<sup>st</sup> year of O&M. Accuracy is to be increased by 10% every year after 1<sup>st</sup> year of O&M. Maximum accuracy of 90% is to be achieved (above 90% accuracy is desirable but will not be liable for penalty if not achieved.).

#### **Use case 6: 5.1.6: View count of vehicles bifurcation**

1. The system should be capable enough to View ambient volume count of all types of vehicles with bifurcation of types of vehicle in at least defined categories of 2W, 3W, car, Bus, LCV, HCV, MPV, HGV, HPV, LGV and LMV across all junctions in the city with a facility to drill down volume count on each arm.
2. The system should be able to record the bifurcations from feed received from RLVD Cameras placed at 130 junctions in the city.
3. The system should be able to bifurcate the vehicles during 24x7 (both day and Night) with minimum 70% accuracy for implementation milestone approval & till end of 1<sup>st</sup> year of O&M. Accuracy is to be increased by 10% every year after 1<sup>st</sup> year of O&M. Maximum accuracy of 90% is to be achieved (above 90% accuracy is desirable but will not be liable for penalty if not achieved.).
4. If any vehicle is falling in 2 categories, then it should be tagged in database with both the categories, so that data of any type can be fetched as per stakeholder's requirement.
5. The vehicle volume count should be super imposed on the map.
6. The view should allow the facility to change the time scale from 1 hr. to 1 year, with daily, weekly, monthly, quarterly and yearly views available.



**Use case 7 : 5.1.7 : Detection of more than two passengers on two-wheeler**

1. The system should be capable enough to detect from the raw video feed if more than 2 passengers are travelling on all types of 2-wheeler.
2. The system should be able to differentiate between adult passenger and a child / infant sitting on a lap of a person sitting on a back seat. A child / infant sitting on a lap of a person sitting on a back seat will not be considered as a violation.
3. Every violation should automatically create a challan, a report in the format to be provided and created image / video snippets of duration to be specified and such report should be stored automatically with due indexing. The system should detect this violation during 24x7 (both day and Night) with minimum 90% accuracy.

**Use case 8 : 5.1.8 : Detection of violation of entry prohibition notification by heavy goods / passenger vehicles.**

1. The system should be capable enough to detect from the raw video feed if any heavy goods / passenger vehicle has violated entry prohibitory notification/sign.
2. The system should also have a facility to define time period during that this type of heavy vehicle movement will not be considered as a violation.
3. Every violation should automatically create a challan, a report in the format to be provided and created image / video snippets of duration to be specified and such report should be stored automatically with due indexing.
4. The system should detect this violation during 24x7 (both day and Night) with minimum 70% accuracy for implementation milestone approval & till end of 1<sup>st</sup> year of O&M. Accuracy is to be increased by 10% every year after 1<sup>st</sup> year of O&M. Maximum accuracy of 90% is to be achieved (above 90% accuracy is desirable but will not be liable for penalty if not achieved.).

**Use case 9: 5.1.9: Detection of lane violation blocking free left traffic by entering wrong lane**

1. The system should be capable enough to detect from the raw video feed if any vehicle has entered into / stopped in a wrong lane prohibiting free left turn for other vehicles. The system should detect such violations for all types of 2 wheeler, 3 wheeler, 4 wheeler & larger vehicles.
2. Every violation should automatically create a challan, a report in the format to be provided and created image / video snippets of duration to be specified and such report should be stored automatically with due indexing.
3. The system should detect this violation during 24x7 (both day and Night) with minimum 60% accuracy for implementation milestone approval & till end of 1<sup>st</sup> year of O&M. Accuracy is to be increased by 10% every year after 1<sup>st</sup> year of O&M. Maximum accuracy of 90% is to be achieved (above 90% accuracy is desirable but will not be liable for penalty if not achieved.).

#### **Use case 10: 5.1.10: Detection of faded stop lines & zebra crossings**

1. The system should be capable enough to detect from the raw video feed the locations where white color of stop lines & zebra crossings have faded & it is not clearly visible.
2. For already faded stop lines & zebra crossings, the new paint work will be first carried out by authority first & then selected bidder's scope of detection will start.
3. This use case is to be carried out from the feed received from RLVD cameras placed at 130 junctions.
4. Every detection should automatically create an event, a report in the format to be provided with actual image of the crossroad, camera name / ID through which the event is detected, timestamp of detection etc. and such report should be stored automatically with due indexing.
5. The system should detect this violation with minimum 80% accuracy for implementation milestone approval & till end of 1<sup>st</sup> year of O&M. Accuracy is to be increased by 10% every year after 1<sup>st</sup> year of O&M. Maximum accuracy of 90% is to be achieved (above 90% accuracy is desirable but will not be liable for penalty if not achieved.)

#### **Use case 11: 5.1.11: Detection of unattended objects, baggage, vehicle in camera feed with the help of analytics.**

1. The system should be capable enough to identify any unattended object, baggage or vehicle positioned in the city.
2. This use case can be carried out by utilizing the feed received from PTZ Cameras placed in the city.
3. Once the object is identified, the picture/video snippet of the object along with location/junction name to be sent to authorities via email and an alert to be generated on application.
4. The system should detect this violation during 24x7 (both day and Night) with minimum 60% accuracy for implementation milestone approval & till end of 1st year of O&M. Accuracy is to be increased by 10% every year after 1st year of O&M. Maximum accuracy of 90% is to be achieved (above 90% accuracy is desirable but will not be liable for penalty if not achieved.)

#### **Use case 12: 5.1.12 : Spitting detection**

1. The system should be capable enough to detect from the raw video feed if the vehicle driver / co-passenger in all types of 2 wheeler, 3 wheeler, 4 wheeler & larger vehicles is spitting on the road.
2. Every violation should automatically create a challan, a report in the format to be provided and created image / video snippets of duration to be specified and such report should be stored automatically with due indexing.

3. The system should detect this violation during day with minimum 60% accuracy for implementation milestone approval & till end of 1<sup>st</sup> year of O&M. From the 2<sup>nd</sup> year onwards, the system should detect this violation during 24x7 (both day & night) and accuracy is to be increased by 10% every year after 1<sup>st</sup> year of O&M. Maximum accuracy of 90% is to be achieved (above 90% accuracy is desirable but will not be liable for penalty if not achieved.).

#### **Use case 13: 5.1.13 : Detection of cattle on road**

1. The system should be capable enough to detect from the raw video feed if any cattle are roaming on the road.
2. This use case to be carried out by utilizing the feed from PTZ cameras placed in the city
3. Every detection should automatically create an event, a report in the format to be provided with actual image of the cattle, camera name / ID through which the cattle is detected, timestamp of detection etc. and such report should be stored automatically with due indexing.
4. The system should detect this violation during 24x7 (both day and Night) with minimum 70% accuracy for implementation milestone approval & till end of 1<sup>st</sup> year of O&M. Accuracy is to be increased by 10% every year after 1<sup>st</sup> year of O&M. Maximum accuracy of 90% is to be achieved (above 90% accuracy is desirable but will not be liable for penalty if not achieved.).

#### **Use case 14 : 5.1.14 : Detection of uncovered debris in truck & extended metallic elements outside of heavy vehicles**

1. The system should be capable enough to detect from the raw video feed the heavy vehicles like trucks / trailers carrying debris without covering it with cloth / any suitable material. The system should also detect the heavy vehicles like trucks / trailers carrying metallic elements that are extended outside the vehicle body at back side.
2. Every detection should automatically create an event, a report in the format to be provided with actual image of the damaged infrastructure, camera name / ID through which the damaged infrastructure is detected, timestamp of detection etc. and such report should be stored automatically with due indexing.
3. The system should detect this violation during 24x7 (both day and Night) with minimum 60% accuracy for implementation milestone approval & till end of 1<sup>st</sup> year of O&M. Accuracy is to be increased by 10% every year after 1<sup>st</sup> year of O&M. Maximum accuracy of 90% is to be achieved (above 90% accuracy is desirable but will not be liable for penalty if not achieved.).

#### **Use case 15 : 5.1.15 : Detection of garbage on road**

1. The system should be capable enough to detect from the raw video feed the locations where garbage is dropped on the road / footpath / in grounds where littering is not allowed. The

system should detect all the littered areas and should have capability to filter out littered area with size of >1 mtr (any dimension like length / width / diagonal distance between edges of littered area can be considered for sizing).

2. The system should have the capability to identify garbage thrown on road by utilizing any video feed procured through crowd/authority sourcing. These videos might be in the format of camera feed or phone recordings shared via email.
3. Every detection should automatically create an event, a report in the format to be provided with actual image of the littered area, camera name / ID through which the littered area / garbage is detected, timestamp of detection etc. and such report should be stored automatically with due indexing.
4. The system should detect this violation during 24x7 (both day and Night) with minimum 70% accuracy for implementation milestone approval & till end of 1<sup>st</sup> year of O&M. Accuracy is to be increased by 10% every year after 1<sup>st</sup> year of O&M. Maximum accuracy of 90% is to be achieved (above 90% accuracy is desirable but will not be liable for penalty if not achieved.).

#### **Use case 16 : 5.1.16 : Detection of damaged infrastructure**

1. The system should be capable enough to detect from the raw video feed the locations where civil / other infrastructure is damaged. For ex.: broken speed breaker, damaged traffic lights / poles, broken road edges, broken dividers and broken footpath.
2. It will be the responsibility of the bidder to collect relevant datasets and train the analytics model.
3. The system should have the capability to identify damaged infrastructure by utilizing any video feed procured through crowd/authority sourcing. These videos might be in the format of camera feed or phone recordings shared via email.
4. Every detection should automatically create an event, a report in the format to be provided with actual image of the damaged infrastructure, camera name / ID through which the damaged infrastructure is detected, timestamp of detection etc. and such report should be stored automatically with due indexing.
5. The system should detect this violation with minimum 60% accuracy for implementation milestone approval & till end of 1<sup>st</sup> year of O&M. Accuracy is to be increased by 10% every year after 1<sup>st</sup> year of O&M. Maximum accuracy of 90% is to be achieved (above 90% accuracy is desirable but will not be liable for penalty if not achieved.)

#### **Use case 17: 5.1.17 : Parking rule violation detection**

1. The system should be capable enough to detect from the raw video feed / photo if the vehicle is parked in a “no parking” zone or parked in obstructive manner for all types of 2 wheeler, 3 wheeler, 4 wheeler & larger vehicles.
2. The system should have the capability to identify the vehicle parked in No parking zone, by utilizing any photo/video feed procured through crowd/authority sourcing. These photos/video might be in the format of camera feed or phone recordings shared via email.

3. The system should be capable of detecting violator's vehicle number utilizing OCR functionality.
4. Every detected violation should automatically create a challan, a report in the format to be provided with created image / video snippets of duration to be specified and such report should be stored automatically with due indexing.
5. The system should detect this violation during 24x7 (both day and Night) with minimum 70% accuracy for implementation milestone approval & till end of 1<sup>st</sup> year of O&M. Accuracy is to be increased by 10% every year after 1<sup>st</sup> year of O&M. Maximum accuracy of 90% is to be achieved (above 90% accuracy is desirable but will not be liable for penalty if not achieved.).

#### **Use case 18 : 5.1.18: Detection of potholes on the road**

1. The system should be capable enough to detect from the raw video feed if any potholes are there on the road. The system should detect all the potholes including situated close to each other and should have capability to filter out potholes with size of >10 inch (any dimension like length / width / diagonal distance between potholes edges can be considered for sizing).
2. The system should have the capability to identify potholes on the road by utilizing any video feed procured through crowd/authority sourcing. These videos might be in the format of camera feed or phone recordings shared via email.
3. Every detection should automatically create an event, a report in the format to be provided with actual image of the road / pothole, camera name / ID through which the pothole is detected, timestamp of detection etc. and such report should be stored automatically with due indexing.
4. The system should detect this violation during 24x7 (both day and Night) with minimum 70% accuracy for implementation milestone approval & till end of 1<sup>st</sup> year of O&M. Accuracy is to be increased by 10% every year after 1<sup>st</sup> year of O&M. Maximum accuracy of 90% is to be achieved (above 90% accuracy is desirable but will not be liable for penalty if not achieved.).

#### **Use case 19 : 5.1.19 : Detection of water logging**

1. The system should be capable enough to detect from the raw video feed the locations where water logging has happened. The system should detect all the water logging areas and should have capability to filter out water logging area with size of >3 mtr (any dimension like length / width / diagonal distance between edges of water accumulation can be considered for sizing).
2. The system should have the capability to identify water logged areas by utilizing any video feed procured through crowd/authority sourcing. These videos might be in the format of camera feed or phone recordings shared via email.
3. Every detection should automatically create an event, a report in the format to be provided with actual image of the water logging, camera name / ID through which the water logging

is detected, timestamp of detection etc. and such report should be stored automatically with due indexing.

4. The system should detect this violation during 24x7 (both day and Night) with minimum 70% accuracy for implementation milestone approval & till end of 1<sup>st</sup> year of O&M. Accuracy is to be increased by 10% every year after 1<sup>st</sup> year of O&M. Maximum accuracy of 90% is to be achieved (above 90% accuracy is desirable but will not be liable for penalty if not achieved.).

#### **Use case 20: 5.1.20: Detection of unauthorized vehicle in BRTS lane**

1. The system should be capable enough to detect from the raw video feed if any unauthorized vehicle is being driven in BRTS lane along with bifurcation of vehicles in at least defined categories of 2W, 3W, car, Bus, LCV, HCV, MPV, HGV, HPV, LGV and LMV.
2. This use case to be run on the feed received from ANPR cameras positioned at BRTS Stations only.
3. Every violation should automatically create a challan, a report in the format to be provided and created image / video snippets of duration to be specified and such report should be stored automatically with due indexing.
4. The system should detect this violation during 24x7 (both day and Night) with minimum 90% accuracy.

**Please find below the tentative list of 130 junctions where ANPR and RLVD cameras are positioned:**

<b>Sr No</b>	<b>Name</b>
1	AEC
2	Akhbarnagar
3	Andhjanmamdal
4	Asharm Road Bata
5	Astodia Darwaja
6	Bapunagar cross road Junction
7	Bhuyang Dev Char Rasta
8	Chakli Circle Law Garden
9	Chandkheda
10	Dada Saheb na Pagla
11	Dadhichi Bridge U-Turn
12	Danilimda
13	Delight cross road Junction
14	Dharnidhar
15	Diamond Circle
16	Ellisbridge River Front T
17	Ellisbridge U-Turn

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Sr No	Name
18	Express Highway Junction
19	Garibanagar Junction
20	Geeta mandir ST Stand
21	Indira Bridge Circle
22	Isanpur
23	Jamalpur circle
24	Jashodanagar
25	Jawahar Chowk
26	Judges Bunglow cross road Junction
27	Kalgi Char Rasta
28	Kalupur Railway Station Entry-Exit Gate
29	Keshavbaug
30	Khamasa Circle
31	Krishna nagar
32	Mahalakshmi Cross Road Junction
33	Manekbag Hall
34	Mansi Cross Road Junction
35	Mithakali Six roads
36	Nagar well hanuman Junction
37	Ajit Mill
38	Delhi Darwaja
39	Nehru Circle
40	NFD Cross Road Junction
41	Paldi Junction
42	Ghodasar
43	Panjra pol Cross Road, Ramol
44	Pragati Nagar
45	NID Junction
46	Raipur Cross Road
47	Relief Cinema Junction
48	Sardar Patel statue Junction
49	Shah Alam
50	Shahibaug Dafnala Cross Road
51	Sharstri nagar
52	Girish Colddrinks Junction
53	Shyamal Cross road Junction
54	Gol Limda (AMC Office)
55	Juna Vadaj Circle
56	Kagdapith Police Station T
57	Satadhar Cross Road
58	Vallabh Sadan



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Sr No	Name
59	Vasna Junction
60	Vastrapur Talav
61	Naroda Paitya
62	Nehru Bridge Junction
63	Vishala Junction
64	Vyas Vadi
65	Ambawadi Junction
66	Bapunagar approach
67	C N Vidyalaya
68	Jodhpur cross road
69	Panchwati Junction
70	Navrangpura cross road
71	New CG road
72	Shivranjini
73	Stadium Junction
74	Star bazar
75	Gymkhana cross road
76	Rahul tower
77	Vijay cross road
78	Krishnabaug
79	Mani nagar cross road
80	Pushpkunj T junction
81	Rabari colony
82	Vallabh wadi
83	Vitthal nagar
84	Jay hind Cross Road
85	Swastik Cross Road Junction
86	Vijali ghar Cross Raod
87	C.A.circle
88	T.B. Nagar Circle
89	Subhas Chowk
90	Surdhara circle
91	Umiya Hall
92	Visat T junction
93	Rupali Theater cross road
94	Usmanpura Junction
95	L.D.Engineering (Xt. Xaviers T Point)
96	Rakhiyal Char Rasta
97	Prabhat Chowk
98	Victoria Garden
99	IOC



Sr No	Name
100	Bhulabhai Park Cross Road
101	Suvidhapark Cross Road
102	Chandranagar Cross Road
103	Rambaug
104	FSL
105	Virat Nagar
106	ONGC
107	Bhmjipura Cross Road
108	Gulbai Tekra
109	Memco
110	Prahlad nagar Garden
111	Hiran Circle 100 Ft Road
112	Ramdev nagar cross road
113	Naranpura
114	Hirabhai Tower
115	Income Tax char rasta
116	Himalaya Mall
117	Avkar hall
118	Iskcon
119	Ganesh Housing/ corporation
120	CIMS hospital
121	Kotarpur
122	Kamod Circle
123	Parimal cross road
124	Football Ground
125	Patel Dairy
126	Ambali gam
127	Ankur cross road
128	Silver Star Mall
129	Jivraj Park
130	Helmet circle

## 5.2 Features / Functionalities

The application should be able to view all the violations/detections (mentioned in the above use case list) on the map, the view should allow the facility to change the time scale from 1 hr. to 1 year, with daily, weekly, monthly, quarterly, and yearly views available.

The system should also be able to view the e-Challans generated per traffic signal with a facility to drill down. The view should allow the facility to change the time scale from 1 hr. to 1 year, with daily, weekly, monthly, quarterly, and yearly views available.

Apart from above mentioned features, find below 3 functionalities that the system should be capable of executing along with detailed list of features and requirements.

### **5.2.1 Track Movement of Flagged Vehicles**

- Track movement of a flagged vehicle (with number tagged as “Wanted”, “Suspicious”, “Stolen”) across the city on map with relevant video feeds.
- The system should be able to generate an alarms / alerts based on the vehicle status and category.
- Functionality to tag any vehicle in any of the (“Wanted”, “Suspicious”, “Stolen”) categories and send an alert to concerned department when the vehicle passes through any of the 130 junctions.

### **5.2.2 Perform people search based on description.**

- Perform people search based on description - application should provide options to input details like man, woman, boy, girl, child, old age people, age, height, body width etc.
- The system should be able to search people based on images or sketches.
- The data source for this use case can be the feed received from either camera placed at junctions or PTZ Cameras.

### **5.2.3 Retrieve data points from camera feed**

- Auto identify a specific camera and show the feed based on data / threshold from traffic/ display/ sensor subsystems.
- The system should have a functionality to fetch requested data from particular camera feed ( For example : Give the count of vehicles passed through particular junction on a particular day).
- The system should also be able to view the list of repeat violators at a particular junction. The view should allow the facility to change the time scale from 1 hr. to 1 year, with daily, weekly, monthly, quarterly and yearly views available.
- The data source for this use case can be the feed received from either camera placed at junctions or PTZ Cameras.

### **5.2.4 Detection of wrong number on vehicle number plate**

- The system should be capable enough to detect from the raw video feed if any vehicle is intentionally having wrong number on the number plate. It will give an early alert to Police team. For ex.: if a thief has stolen a vehicle & changed the original number plate with dummy number plate with wrong number (that has never been issued). The system should fetch the number from all the vehicles’ number plate and execute the API with Vahan database to get the details of whether the number is correct & vehicle’s registered make & model. In this case, the API will return the false value i.e. the number on the vehicle number plate is wrong. That will give an early alert to police team that activity with some mala fide intention is going on.

- As a second possibility, if thief has changed the original number plate with dummy number plate with correct number of another vehicle. In this case, API from Vahan database will return true value i.e. the number on the vehicle number plate is correct and simultaneously it will also provide make & model of the vehicle. Now, the proposed e-Challan application should detect the make / model of the subject vehicle and compare with the value received from Vahan database. If it doesn't match, it will raise an alert for police team.
- Even if it matches coincidentally, then the proposed e-Challan application should find out if same number is detected in some other area during same time period. System should trace both the vehicles and create a report of movement of the vehicles with relevant video feed and generate an alert.
- Proposed e-Challan application may run APIs with Vahan database initially in multiple batches as per the capacity of both the systems for the purpose of getting details related to whether the number is correct & vehicle's registered make & model. This will eventually create a local database (of limited information only) with e-Challan application that will facilitate comparison & checking of vehicle numbers locally in most of the cases.
- Every detection should automatically create an event, a report in the format to be provided and created image / video snippets of duration to be specified and such report should be stored automatically with due indexing.
- The system should detect this violation during 24x7 (both day and Night) with minimum 70% accuracy for implementation milestone approval & till end of 1<sup>st</sup> year of O&M. Accuracy is to be increased by 10% every year after 1<sup>st</sup> year of O&M. Maximum accuracy of 90% is to be achieved (above 90% accuracy is desirable but will not be liable for penalty if not achieved.)

### **5.3 Mobile Application**

- Bidder should develop mobile application for generating e-challans. The mobile application should be made available to the field traffic officials so that whenever they find any person driving vehicle in a drunk condition, then they will open the app on their mobile phone and take the video / photo of the vehicle number plate. The mobile app will also provide a drop-down menu / facility to mention that the incidence / detection is of drunk driving. The mobile app will automatically send the video / photo to backend application at ICCV through internet connectivity available on officer's mobile phone & generate e-Challan for such vehicles. As an alternative option, the mobile app should also have an option to manually generate e-Challan for such vehicles.
- The mobile application will be utilized by the traffic police to record any parking violations. Concerned field traffic officials will upload the picture/video of vehicle with vehicle number and "No Parking" board clearly visible. Once it is identified that it is parking

violation based on the image uploaded, a challan to be generated. The mobile app will also provide a drop-down menu / facility to mention that the incidence /Parking violation. The mobile app will automatically send the video / photo to backend application at ICCC through internet connectivity available on officer's mobile phone & generate e-Challan for such vehicles.

- Every violation should automatically create a challan, a report in the format to be provided and created image / video snippets of duration to be specified and such report should be stored automatically with due indexing.
- The system should generate e-Challan with 100% accuracy.

#### **5. 4. e-Challan System**

1. The successful bidder is required to develop a “e- Challan system/solution” based on the laws/rules of Motor Vehicle Act of central/state government.
2. Successful bidder is responsible for end-to-end designing, planning, supply, implementation, testing, commissioning and maintenance of entire e-Challan system.
3. It is envisaged that successful bidder will have to submit a detailed Functional Requirement document and software requirement specification covering each and every aspect of the system required to successfully run the system.
4. e-Challan system should be able to automatically generate e-challan's based on the laws/rules of Motor Vehicle Act of central/state government for the violations detected by the surveillance system. It should also have a provision/interface for manual e- challan generation for violations captured through video feeds and field level. Should the government make changes in laws pertaining to traffic management during the O&M period of the contract, the bidder will have to carry out such changes without any additional cost.
5. It should be integrated with the all the required databases/systems for auto generation of e- Challan like RTO system, VMS system and other required resources.
6. e-Challan system should have a provision to whitelist vehicle numbers of emergency vehicles (for ex. ambulance) so that RLVD challans for such vehicles will not be generated even upon violation.
7. The successful bidder is required to submit the SoPs, documents, FAQ along with all the patches and upgrades of the system.
8. Application development must be documented in detail and the code/script should be properly annotated with comments etc.
9. The “web based e-Challan” payment module has to be developed by the successful bidder and integrate with a Payment Gateway (to be provided by SCADL) for the online payment of the challans by the citizens through multiple mode i.e. Debit / Credit Card / Internet Banking / wallet / Janmitra card (under the Common Card payment system program of SCADL) etc.

10. The system should also have the provision for integration of the e-challan system with an SMS gateway for intimating the offenders/violators at the various steps such as at the time of generation of challan, Payment due, payment made etc.
11. The system should have a GUI interface & dashboard wherein all the generated challans will be visible and will also have an option of manually approving / rejecting the challans. The system should be able to generate MIS reports based on the type/ Date /time/Location of offences for multiple time duration like daily, weekly, monthly, quarterly etc., as may be required for the day to day activity.
12. The Successful bidder will also have to publish the API's for the integration of Violation information with RTO Database (Vahan, Sarathi) / e- Gujcop application / one nation one challan application.

### **5.5 Automatic Number Plate Recognition (ANPR) System**

1. The proposed ANPR System shall enable monitoring of vehicle flow. The system shall support real-time detection of vehicles, reading of its number plate and conversion of the same into alphanumeric text.
2. The proposed system should be able to generate an auto alarms /alerts based on the vehicles status and category as specified by the database.
3. The proposed ANPR system has to be integrated with various Applications/ Databases of the e-GujCop application of the Police department, RTO Database (Vahan, Sarathi), one nation one challan application etc. for verification/checking and fetching/providing the required vehicle information.
4. The proposed system should be able to store the image of vehicle, number plate and also able to create a record of vehicle no., Date & time stamp, locations etc. in DBMS.
5. The proposed System should be able to detect and recognize the English alphanumeric License plate in standard fonts and formats of all the vehicles.
6. The proposed system should be capable to perform OCR (optical character recognition) of number plates (Detect and Read) written in English and Gujarati language with character in standard or non-standard fonts, unusual characteristics like different size characters, font, colors, special characters etc.
7. The Accuracy of ANPR system should be more than 90% in case of standard English Alphanumeric Font and High Security Registration plates and 75% for Hindi Devnagari and Gujarati scripts, the system should be able to capture the Registration Plate of a vehicle moving at a speed of up to 120 Km/hour with the same level of accuracy.
8. The system database should allow to make an advance search in the database with different set of criterias while conducting post incident analysis/investigations.
9. The proposed system should be able to generate various MIS reports like vehicle flow, detected vehicle category wise reports, etc.
10. The system should be able to plot the camera locations on to the city map (open source digital Map / the Maps provided by AMC, bhulekh map etc.). In case of any stolen / suspected / wanted / Hot listed vehicle has been identified by the ANPR system at any or multi camera locations, the pictorial view of the data on the map along with the date and

time stamp of the event shall give meaningful insight to the alert generated and the monitoring of the same can be done in a better way.

## 5.6. Other important details

1. There are ANPR, RLVD & PTZ cameras installed in smart city network. Proposed e-Challan application / solution will have to generate all types of e-Challan from the live video feed of these cameras as per SoW of this RFP. These cameras are equipped with Night vision capabilities with IR.
2. Additionally, proposed e-Challan application / solution will have to generate related e-Challans from the live video feeds / photos received from the mobile app of the e-Challan application (as mentioned in the functionality requirement of the drunk driving detection & parking rule violation detection).
3. SCADL will also provide crowd source video feeds / photos through internet connectivity or pen drive or through other suitable media to selected bidder. Selected bidder will have to analyze these video feeds & photos through e-Challan application /solution to generate all related types of e-Challan.
4. Selected SI will have to provide all necessary licenses for the e-Challan application & related databases on the name of SCADL for total number of cameras as mentioned in SoW. All the licenses should be perpetual in nature.
5. There is no GPU available in existing server setup. It is bidder's responsibility to arrange GPU for their software requirement. Successful bidder will be free to augment the existing hardware/software at their own cost as per their requirement to ensure the achievability of the SLA's.
6. SCADL will provide below mentioned IT resources to selected bidder to install e-Challan application and associated database.
  - CPU environment : Intel(R) Xeon(R) CPU E5-2683 v4 @ 2.10GHz (server model : PowerEdge M630) with 128 GB RAM & 1 TB internal disk space.
  - CPU physical cores : 800 nos. (50 nos. server blades are available for the installation of this new proposed e-Challan application & its related database)
  - RAM : 6400 GB (50 nos. server blades are available for the installation of this new proposed e-Challan application & its related database)
  - Storage : 50 TB internal disk space (50 nos. server blades are available for the installation of this new proposed e-Challan application & its related database) (also separate 11 PB of storage is available for storing video feeds – 5.5 PB each at ICCC & TCCC).
  - If bidder requires any additional IT resources to successfully deploy & operate e-Challan application & its associated database, then SI will have to arrange resources on public cloud on their own cost (including all types of cost elements of public cloud like IT infrastructure / IT resources, bandwidth cost etc.). Bidder may plan the architecture of the application wherein some of the modules of the overall application suit is run on SCADL IT infrastructure and other may be run on public cloud. Bidder will have to clearly mention proposed technical architecture of their application suit



along with internet connectivity / data consumption requirement for communication between SCADL IT infrastructure and public cloud in their proposal & presentation.

- Selected bidder will be responsible for SITC and O&M of any additional software package / camera license / camera SDK required for extracting video footages of the cameras from VMS / storage (to be maintained by O&M SI of the SASA ICCC project). SCADL will provide access to servers & storage for the purpose of extracting the video footages from VMS.

7. **Proof of Concept (POC):** All the bidders will have to conduct Proof of Concept (POC) as per the schedule given by SCADL. Marks to all the bidders for technical evaluation criteria TQ – 3 will be provided based on the result of POC testing. All the bidders will have to bring their own high-end laptop and e-Challan application with required database for the purpose of conducting this POC. SCADL will provide raw electrical power and physical space to all the bidders to set up the infrastructure to conduct POC testing. SCADL will also provide video footage to all the bidders and give 2 hours' time to run the video analytics. Bidder's laptop will not be allowed to connect to internet during this POC testing, bidders will have to perform only local processing on the provided video footage to detect various incidences. Alerts / incidences should be generated automatically without any human intervention. All the bidders will conduct this POC testing at same time at same physical place (as decided by SCADL) in the presence of all other bidders and SCADL / police representatives.
8. Selected SI will have to deploy 2 nos. software developer for the purpose of developing required API for integration with any other software proposed by SCADL / AMC / State Govt. / Central Govt.
9. Selected SI will have to submit entire source code of the application to SCADL without any additional cost at the end of contract period. The ownership of the application (including the source code) will be of SCADL. It is selected SI's responsibility to ensure that with the source code provided to SCADL, the entire e-challan analytics application runs successfully even post contract period without any further requirement of O&M contract with the bidder. SCADL will sign NDA with selected bidder at the end of contract period and then only selected bidder will have to provide entire source code to SCADL. Also, selected SI will be responsible to provide technical & functional training to SCADL representatives on this matter so that SCADL team can successfully run the application post contract period.
10. Selected bidder will have to conduct cyber security assessment every year including VAPT (Vulnerability Assessment and Penetration Testing) through CERT-IN certified agency for entire solution including software application, database, mobile application etc. and will have to resolve identified vulnerabilities.

## **5.7 Hand over – Takeover of the entire network by selected SI from existing SI**

1. SCADL will ensure that existing SI will be available with his entire present team (both field staff as well as back-office staff) for minimum 2 months from the issue of WO to selected SI of O&M RFP for the purpose of smoothly carrying out HOTO activities for O&M of

Network. Therefore, selected SI of this RFP will have to support, coordinate & synchronize all required efforts with selected bidder of O&M RFP (and may be existing SI of SCADL) to ensure overall successful implementation & running of SASA project infrastructure along with e-Challan software / application.

2. SCADL in consultation with existing SI & new O&M SI will facilitate to provide latest information, documents & reports to selected bidder as per requirement. If selected bidder requires any further information / details from existing SI / new O&M SI, a joint exercise will need to be carried out amongst SCADL, existing SI, new O&M SI & selected SI and it will be attempted for closure within reasonable time.
3. Selected SI will have to prepare detailed service migration plan in consultation with SCADL & existing SI / new O&M SI, get the migration plan approved from SCADL and then implement the plan. Selected SI will have to ensure that functional output of the system is not impacted for more than 24 hours during service migration. For the purpose of establishing parallel set up of software application / database, SCADL will provide IT resources (compute power & storage) in the existing data centre.
4. It will be selected SI's responsibility to check the compatibility of e-Challan application / entire solution proposed with existing hardware / software component in all technical & functional aspects of integration and data migration to ensure successful working of the entire network / system.
5. For ex.: selected SI will first install & commission new e-Challan application in existing data center IT environment. Selected SI in consultation with existing SI and with approval of SCADL will do necessary reconfiguration in network components to get the parallel video feed from RLVD & ANPR cameras / NAS storage / NVR / DVR without impacting the existing set up of cameras & e-challan system and will have to generate challans for all violation cases. The generated challan by new software application will be compared with challans generated by existing application to cross check the accuracy of the new e-challan software application to check if any violation case is missed in generating challan. If accuracy of the new application is found as per RFP requirement, then existing application will be removed after taking necessary approvals of all the concerned stakeholders. Selected SI will have to ensure database migration from existing database to newly proposed database and successful functioning of the entire system as per RFP requirement.

## 6. Manpower deployment

Selected bidder will have to deploy below mentioned minimum manpower for entire contract duration.

Designation	Qty	Roles & Responsibilities	Desired Qualification
Software developer	2	<ul style="list-style-type: none"> <li>· Development of new dashboards / update in existing dashboards</li> <li>· Development of any new APIs to integrate the existing systems with any new proposed system</li> <li>· Coordinating for security check &amp; VAPT of the applications / systems</li> </ul>	<ul style="list-style-type: none"> <li>· BE /B. Tech (EC/CS/IT) / MCA</li> <li>· 5+ Years of Post Qualification Experience in full stack software / application development.</li> <li>· Proficiency with fundamental front-end languages such as HTML5, CSS, and JavaScript.</li> </ul>



Designation	Qty	Roles & Responsibilities	Desired Qualification
		and resolution of identified vulnerabilities.	<ul style="list-style-type: none"> <li>· Proficiency with server-side languages such as Python, Java 8+.</li> <li>· Familiarity with database technology such as MySQL, PostgreSQL, Oracle, and MongoDB.</li> </ul>

Note:

1. The SI shall not replace any of the proposed resources during the contract period without prior approval from SCADL.
2. Any change, except for the reasons not in control of the SI (like resignation by the resource or unavailability of the resource due to valid personal reasons – agreed by SCADL) shall attract penalty of Rs. 50,000/- per event.
3. SCADL reserves the right to ask for replacement of the resource on the ground of non-performance by the existing resource.
4. Any replacement profile shall be equal or better in terms of Qualification and Experience and shall be subject to approval from SCADL.
5. SI shall provide minimum 2 weeks for hand-over between the existing & replacement resource.

## 7. Eligibility criteria

### 7.1. Eligibility Pre-Qualification Criteria

Following will be the minimum qualification criteria. Each eligible service provider should possess all the following qualification criteria. Responses not meeting the minimum qualification criteria will be rejected.

#	Pre-Qualification Criteria	Proof Document Required
1.	<ul style="list-style-type: none"> <li>(i) The bidder should be an Indian firm.</li> <li>(ii) 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 at the time of the bidding</li> <li>(iii) The bidder should have a registered number of, GST, Income Tax / Pan number</li> <li>(iv) The bidder should be in operation in India for a period of minimum 5 years as on publication of bid</li> </ul>	<ul style="list-style-type: none"> <li>• Certificate of Incorporation / Registration Certificate</li> <li>• Copy of PAN card</li> <li>• Copy of GST registration</li> </ul>

#	Pre-Qualification Criteria	Proof Document Required
2.	<p>The bidder should have a minimum cumulative turnover of Rs. 3 crores from ICT/IT/ITES Projects in last three (3) financial years (i.e. FY 2019-20, 2020-21 and 2021-22 or FY 2020-21, 2021-22 and 2022-23 (non-audited))</p> <p>If the bidder is MSME registered company, than bidder should have a minimum cumulative turnover of Rs. 1 crore from ICT/IT/ITES Projects in last three (3) financial years (i.e. FY 2019-20, 2020-21 and 2021-22 or FY 2020-21, 2021-22 and 2022-23 (non-audited))</p>	<p>The Bidder:</p> <p>1. Audited balance sheet of the firm/bidding entity for the last three financial years (i.e. FY 2019-20, 2020-21 and 2021-22) certified by statutory auditor.</p> <p>OR</p> <p>Audited balance sheet of the firm/bidding entity for the two financial years (i.e. FY 2020-21 &amp; 2021-22) certified by statutory auditor and non-audited &amp; CA certified balance sheet for FY 2022-23.</p> <p>2. Certificate from the Statutory Auditor on turnover details from ICT/IT/ITES over the last three (3) financial years – Refer format given in Annexure</p>
3.	<p>The Bidder must have positive net worth or should be profit making in last three (3) financial years (i.e. FY 2019-20, 2020-21 and 2021-22 or FY 2020-21, 2021-22 and 2022-23 (non-audited))</p>	<p>The Bidder -</p> <p>Certificate from the Statutory Auditor on net worth (i.e. FY 2019-20, 2020-21 and 2021-22)</p> <p>OR</p> <p>Certificate from the Statutory Auditor on net worth (i.e. FY 2020-21 and 2021-22) and CA certificate on net worth for FY 2022-23</p>
4.	<p>Similar Work:</p> <p>The Bidder should have demonstrable experience in supply, installation, testing &amp; commissioning (SITC) and operation of their own / any OEM's COTS e-Challan application for at least 2 completed / on going projects in the last five years as on bid submission date (WO / go-live certificate must have been issued within last 5 years), in Municipal Corporation/ Central / State/ PWD / M.E.S. /</p>	<p>The Bidder-</p> <p>In case of Completed project –</p> <p>Copy of work order + Completion Certificates from client;</p> <p>In case of ongoing projects -</p>

#	Pre-Qualification Criteria	Proof Document Required
	<p>Semi Govt. / Private Organizations / any international project executed or on going for any Government or private entity.</p> <ol style="list-style-type: none"> <li>The e-Challan application must have basic functionalities of detecting Red Light Violation (RLVD) along with Automatic Number Plate Recognition (ANPR) and generating e-Challan for same at Day – 0.</li> <li>The cited project will only be considered if the e-Challan application implemented in that project has automatically generated &gt;10K e-Challans for RLVD.</li> </ol> <p>The bidder should submit a certificate from client on completion status of on-going project and performance of bidder.</p>	<p>Work order + Certificate from the client mentioning the functionalities implemented + Performance certificate of the bidder from the client</p> <p>Certificate from the client clearly mentioning the number of RLVD e-Challans generated automatically by the quoted e-Challan application</p>
5.	<p>The bidder should:</p> <ol style="list-style-type: none"> <li>Not have been blacklisted by Central Government / Any State Government / Urban Local Body (ULB) / PSU in India as on the date of bid submission.</li> <li>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.</li> <li>There must not be any criminal case booked by any Government authority against the bidder in any court in last 5 years as on bid submission date.</li> <li>The bidder should have at least one office in Ahmedabad and preferably support centres for the entire state. If the Bidder is not having any office in Ahmedabad, then bidder should submit a letter of undertaking to open the office in Ahmedabad within 45 days from the date of issue of work order if he is awarded the work.</li> <li>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 a procurement contract within a period of three years preceding the commencement of the procurement process, or not have been otherwise disqualified.</li> </ol>	<p>Declaration letter by bidder as per the format given in the RFP document</p> <ol style="list-style-type: none"> <li>Self-declaration by the Bidder duly signed and stamped by the authorized signatory in format described in RFP.</li> <li>Copies of any two of the followings: Property Tax / Electricity / Telephone Bill / GST Registration / Lease agreement Or Undertaking to open Office in Ahmedabad</li> </ol>

#	Pre-Qualification Criteria	Proof Document Required
6.	<p>The Bidder should possess at least one distinct certification from any of the below Certifications (valid at the time of bidding):</p> <ul style="list-style-type: none"> <li>• CMMI- Process Level 3 or above</li> <li>• ISO 9001:2015</li> <li>• ISO 27001:2022 for Information Security Management Systems</li> <li>• ISO/IEC 20000</li> </ul>	Copies of valid certificates in the name of the bidding entity
7.	<p>The bidder &amp; OEM of proposed solution from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with Competent Authority as per OM No. 6/18/2019-PPD dated 23<sup>rd</sup> July 2020 issued by Department of Expenditure, GoI</p>	Self-certification from bidder and OEMs on Non-Judicial stamp of Rs. 300/- in the prescribed format (Annexure – IX), separately.

**Note – 1:**

- 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. The technical proposal should be submitted in hard copy with soft version stored in pen drive.
- For all cited projects under bidder's experience criteria; the bidders have to submit LoI/work order with full BoQ, contract agreement go-live/amount of work completion certificate and copy of invoice submitted to the client as a supporting document for each project.
- The bidder needs to provide contact detail (email & phone number) of senior official from client.
- 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.
- The Bid Evaluation Committee (BEC) may require written clarifications from the bidders to clarify ambiguities and uncertainties arising out of the evaluation of the Bid documents.

## 7.2. Technical Evaluation Criteria

#	Technical Evaluation Criteria	Technical Evaluation parameter
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TQ - 1	Bidder Competence – Turnover	Cumulative annual turnover (in crores)	Marks
		>= INR 20 Cr.	10
		>= INR 10 Cr. and < INR 20 Cr.	9
		>= INR 3 Cr. and < INR 10 Cr.	8
		For MSME firms (only) : >= INR 1 Cr. and < INR 3 Cr.	8
Maximum Marks: 10			
TQ – 2	Bidder Competence – Work Experience	No. of projects completed / ongoing for SITC and operation of their own / any OEM’s COTS e-Challan application as per PQ - 4	Marks
		>= 6 nos.	10
		>= 4 nos. and < 6 nos.	9
		>= 2 nos. and < 4 nos.	8
Maximum Marks: 10			
TQ – 3	Bidder Competence – Work Experience	Successful implementation of various use cases (Bidder will have to successfully implement these use cases and generate e-Challan for each type of violation during POC to get the marks)	Marks
		RLVD, ANPR & e-Challan generation	1 Mark each for all identified instances.  Max Mark: 16
		Not wearing helmet detection	0.25 Mark each for all identified instances  Max Marks : 3
		Detection of use of mobile phone while driving	0.25 Mark each for all identified instances  Max Marks: 3

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		Detection of more than two passengers on two-wheeler	0.25 Mark each for all identified instances Max Marks: 3
		Wrong side driving detection	1 Mark each for all identified instances Max Marks: 2
		Spitting detection	0.25 Mark each for all identified instances. Max Marks: 2
		Detection of unauthorized vehicle in BRTS lane	0.25 Mark each for all identified instances. Max Marks: 2
		Detection of potholes on the road	1 Mark each for all identified instances Max Marks: 2
		Detection of cattle on road	0.25 Mark each for all identified instances. Max Marks: 2
		Detection of Garbage on road	0.25 Mark each for all identified instances Max Marks: 3
		Detection of damaged infrastructure	1 Mark each for all identified instances Max Marks: 2
		<b>Maximum Marks: 40</b>	
		<i>Note: Above mentioned marking schema for POC and POC methodology as mentioned in RFP are indicative details. The final details will be provided to the bidders who will qualify for PQ criteria during bid evaluation process &amp; same will be given well in advance of final POC date.</i>	

TQ – 4	Bidder Competence – Manpower	Manpower resumes (as per desired qualification as mentioned in clause – 2.3)	Marks
		Software developer	10
		Maximum Marks: 10	
TQ – 5	Presentation	Description	Marks
		SI's strategy to implement all the required use cases as per SoW of this RFP (in case if all use cases / modules are not readily available in the product at Day – 0)	10
		SI's strategy to increase accuracy of generating e-Challan for various use cases from the minimum level requirement of this RFP	10
		SI's strategy to implement the entire solution / application using the available IT resources to be provided by SCADL or proposed solution in case large size IT resources are required.	10
		Maximum Marks: 30	

Minimum qualifying score from TQ to become eligible for next stage of financial bid opening will be **60 marks**.

## 8. Service Level Agreement (SLA) & Penalties

### 8.1 Implementation phase SLA

(Issuance of Work Order = To)

Sr. No.	Milestone Description	Timeline	Penalty for Delay
1	Signing of Contract	1 week from issuance of LoI / Award of WO (To)	Rs. 50,000/week or part thereof. SCADL may terminate the contract and forfeit the PBG beyond delay of 2 weeks.
2	SITC of basic e-Challan application / solution along with associated database and make it functional with all the requirements of Day – 0 (RLVD, ANPR and e-Challan) as per PQ – 4 of this RFP	T1 = To + 2 weeks	A penalty of 0.1% of (sum of sr. no. – 1 to 21 of table – A of financial bid as calculated using unit rate of license * finalized execution

			quantities of license) per week or part thereof. SCADL may terminate the contract and forfeit the PBG beyond delay of $T_0 + 4$ weeks.
3	Successful functioning of <b>9 use cases out of 19 use cases</b> (ambient volume count, seat belt, helmet, use of mobile phone while driving, spitting, vehicle in BRTS lane, more than 2 passengers on two-wheeler, wrong side driving, parking violation)	$T_2 = T_1 + 2$ months	A penalty of 2% of (sum of sr. no. – 1 to 21 of table – A of financial bid as calculated using unit rate of license * finalized execution quantities of license) per month or part thereof. SCADL may terminate the contract and forfeit the PBG beyond delay of $T_1 + 4$ months.
4	<b>Successful functioning of 6 use cases out of remaining 10 use cases and mobile application</b> ((Mobile Application – Parking violation, drunk driving), water logging, garbage, potholes, uncovered debris, damaged infrastructure, cattle)	$T_3 = T_2 + 2$ months	A penalty of 2% of (sum of sr. no. – 1 to 21 of table – A of financial bid as calculated using unit rate of license * finalized execution quantities of license) per month or part thereof. SCADL may terminate the contract and forfeit the PBG beyond delay of $T_2 + 4$ months.
5	<b>Successful functioning of remaining 4 use cases and additional features as per SoW</b> (Additional features - perform people search, flagged vehicle tracking, feed based data retrieval, wrong number plate) Use cases (violation entry of heavy vehicles, lane violation blocking free left, faded stop lines & zebra crossing, identifying unattended objects)	$T_4 = T_3 + 2$ months	A penalty of 1% of (sum of sr. no. – 1 to 21 of table – A of financial bid as calculated using unit rate of license * finalized execution quantities of license) per month or part thereof. SCADL may terminate the contract and forfeit the PBG beyond delay of $T_3 + 4$ months.

Note for clause – 8.1 (Implementation phase SLA) :

1. All the timeline mentioned in above table will be calculated from the actual date of completion of respective previous milestone.
2. Maximum penalty ceiling for this penalty clause will be 10% of (sum of sr. no. – 1 to 21 of table – A of financial bid as calculated using unit rate of license \* finalized execution quantities of license). SCADL will have a right to terminate the contract upon total penalty of this section crossing the maximum ceiling.



## 8.2. Accuracy of e-Challan application

- 4.2.1. SCADL / any authorized agency from SCADL will randomly check the detection accuracy of e-Challan system for all use cases by viewing recorded video feed for violation cases and comparing the number of generated e-Challans (only true positives) with the actual number of the violations as per video feed.
- 4.2.2. No milestone will be approved during implementation phase till the time accuracy is achieved as per RFP. During O&M phase also, accuracy as mentioned in each use case will have to be achieved, otherwise penalty of Rs. 15,000/- per each defaulted use case per quarter will be levied to selected SI.
- 4.2.3. For all wrongly identified numbers (false positives), penalty of Rs. 10,000/- per each false positive will be levied to selected SI.
- 4.2.4. For ex.: Let's say there are 10 cases of "Not wearing helmet" on 2 wheeler in a video feed of 1 hour that is manually watched / checked by representatives of SCADL. Let's say proposed e-Challan application has generated total 8 challans of "Not wearing helmet" during this 1 hour. Out of 8, 7 challans are correct (true positives) that will prove 70% detection accuracy. The 8<sup>th</sup> challan that was false positive (actually 2 wheeler rider had wore the helmet, but e-Challan application generated challan wrongly) will attract the penalty as per above clause. SCADL will check accuracy in this manner for multiple hours spanning across 24 hours of day & night.

Note for clause – 8.2 (Accuracy of e-Challan application) :

1. Penalty for this clause will be applicable only after the successful completion of respective implementation milestone for any use case.
2. There will not be any maximum ceiling for this penalty section. Actual penalty will be deducted from quarterly bill of selected SI. SCADL will have a right to terminate the contract upon total penalty of this section crossing the limit of 5% of (sum of sr. no. – 1 to 21 of table – A of financial bid as calculated using unit rate of license \* finalized execution quantities of license).

## 8.3. Software support – for which SI is responsible

Any Software bug / application related issue identified by SCADL / any stakeholder will be classified in 3 types:

- Priority # 1: System outage/ performance related issue affecting the overall functionality of the application. For ex.:
  - Entire application is down / end users are not able to log into the application.
- Priority # 2: Partial impact on the day to day functioning of the deployed system / application. For ex.:
  - Availability of few modules of the application & some of the modules are not working properly / having issues (part functionality of the application)
  - Unable to provide / fetch the necessary parameters / details to other software system (issues in functioning of APIs) etc.

- Priority # 3: No direct impact on the day to day functioning of the deployed system. For ex.:
  - Providing resolution for all the observations / vulnerability captured in VAPT / other audit.
  - Any other minor issue not impacting the day to day functioning of the deployed system / application as raised by end user.

Resolution time & the penalty component for the bug fixing / issue resolution is given below (applicable on 24 \* 7 basis):

Type of Issue	Resolution time (from the time of reporting of incident in the system or ticketing tool)	Penalty amount (exceeding resolution time)
Priority #1	2 hours	Rs. 10,000/- (per hour)
Priority #2	4 hours	Rs. 5,000/- (per hour)
Priority #3	24 hours	Rs. 1,000/- (for every 24 hour or part thereof)

Note for clause – 8.3 (Software support – for which SI is responsible) :

1. There will not be any maximum ceiling for this penalty section. Actual penalty will be deducted from quarterly bill of selected SI.

## 9. Payment Terms

### 9.1. CAPEX payment

Payment Milestone	Payment Amount	Payment condition & Documentary Evidence to be submitted
P1	10% of (sum of sr. no. – 1 to 21 of table – A of financial bid as calculated using unit rate of license * finalized execution quantities of license)	<ol style="list-style-type: none"> <li>1. Payment will be made after 3 months of cooling period after successful completion of implementation milestone sr. no. – 2.</li> <li>2. Implementation delay, detection accuracy &amp; software support related penalties (if any) will be deducted.</li> </ol>
P2	30% of (sum of sr. no. – 1 to 21 of table – A of financial bid as calculated using unit rate of license * finalized execution quantities of license)	<ol style="list-style-type: none"> <li>1. Payment will be made after 3 months of cooling period after successful completion of implementation milestone sr. no. – 3.</li> <li>2. Implementation delay, detection accuracy &amp; software support related penalties (if any) will be deducted.</li> </ol>

Payment Milestone	Payment Amount	Payment condition & Documentary Evidence to be submitted
P3	25% of (sum of sr. no. – 1 to 21 of table – A of financial bid as calculated using unit rate of license * finalized execution quantities of license)	<ol style="list-style-type: none"> <li>1. Payment will be made after 3 months of cooling period after successful completion of implementation milestone sr. no. – 4.</li> <li>2. Implementation delay, detection accuracy &amp; software support related penalties (if any) will be deducted.</li> </ol>
P4	15% of (sum of sr. no. – 1 to 21 of table – A of financial bid as calculated using unit rate of license * finalized execution quantities of license)	<ol style="list-style-type: none"> <li>1. Payment will be made after 3 months of cooling period after successful completion of implementation milestone sr. no. – 5.</li> <li>2. Implementation delay, detection accuracy &amp; software support related penalties (if any) will be deducted.</li> </ol>
P5	20% of (sum of sr. no. – 1 to 21 of table – A of financial bid as calculated using unit rate of license * finalized execution quantities of license)	<ol style="list-style-type: none"> <li>1. Payment will be made in 20 equal quarterly installments after successful completion of implementation milestone sr. no. – 5.</li> <li>2. This is O&amp;M phase payment and will be paid as per details mentioned in clause – 9.2 below.</li> </ol>

## 9.2 OPEX payment

1. OPEX phase will start at successful completion of implementation milestone – 5 which will be Go-live event for the proposed e-Challan application.
2. Payment to selected SI will be made quarterly.

Quarterly Payment Milestone	Payment Amount	Payment condition & Documentary Evidence to be submitted
M1	0.7% of (sum of sr. no. – 1 to 21 of table – A of financial bid as calculated using unit rate of license * finalized execution quantities of license)	<ol style="list-style-type: none"> <li>1. Payment will be made upfront on submission of invoice.</li> </ol>

Quarterly Payment Milestone	Payment Amount	Payment condition & Documentary Evidence to be submitted
M2	0.3% of (sum of sr. no. – 1 to 21 of table – A of financial bid as calculated using unit rate of license * finalized execution quantities of license)	<ol style="list-style-type: none"> <li>1. Payment will be made after verifying the invoice and supporting documents &amp; deducting all applicable penalties.</li> <li>2. Quarterly attendance report of software developer</li> <li>3. Rectification of any defects / completion of any O&amp;M related task / assignment assigned by SCADL based on project requirement</li> </ol>

## 10. Licenses & Warranty / Support

The selected bidder will be fully responsible to comply to all the terms & conditions of this RFP including providing required licenses as mentioned in SoW of this RFP and support for entire contract duration and maintaining the SLA / uptime failing which the required penalties will be levied.

## 11. Instructions to the bidder

The AMC/SCADL invites reputed firms to submit their proposals in accordance with conditions and manner prescribed in this Request for Proposal (RFP) document.

### 11.1 Availing RFP Documents

RFP document can be downloaded from the web site (n)Procure (<https://www.nprocure.com/>) up to the date and time mentioned in the RFP Notice (Section – C).

### 11.2 Completeness of the RFP Response

Bidders are advised to study all instructions, forms, terms, requirements and other information in the RFP documents carefully. Submission of bid shall be deemed to have been done after careful study and examination of the RFP document with full understanding of its implications. The response to this RFP should be full and complete in all respects. Failure to furnish all information required by the RFP document or submission of a proposal not substantially responsive to the RFP documents in every respect will be at the bidder's risk and may result in rejection of their proposal.

### 11.3 Tender Fee

Bidder should submit the tender fee (INR 18,000) in the form of Demand Draft / Banker's Cheque in favor of "Smart City Ahmedabad Development Limited" drawn on any scheduled / nationalized bank and payable at Ahmedabad.

### 11.4 Bid Validity Period

The bid validity period shall be 180 days from the date of submission of bids. In exceptional circumstances, the AMC/SCADL may solicit the Bidder's consent for an extension of the period of bid validity. Any such request by the AMC/SCADL and the response thereto shall be made in writing and such extension of Bid validity period by the Bidder should be unconditional. A Bidder may refuse AMC/SCADL's request for such extension. A Bidder accepting the request of AMC/SCADL shall not be permitted to modify its Bid.

### 11.5 Proposal Preparation Cost

The bidder is responsible for all costs incurred in connection with participation in this process, including, but not limited to, costs incurred in conduct of informative and other diligence activities, participation in meetings/discussions/presentations, preparation of proposal, in providing any additional information required by AMC/SCADL to facilitate the evaluation process. AMC/SCADL will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process. All materials submitted by the bidder shall become the property of the AMC/SCADL and may be returned at its sole discretion.

### 11.6 Submission of RFP Queries

A prospective Bidder requiring any clarification on the RFP Document may submit his queries, via email, to the following e-mail id.

Email Id for submission of queries: smartcity@ahmedabadcity.gov.in, scadl.amc@gmail.com

The queries must be submitted in the following format only:

B Request for Clarification			
Name and Address of the Organization submitting request		Name and Position of Person submitting request	Contact Details of the Organization / Authorized Representative
			Tel: Mobile: Fax: Email:
Sr. No	RFP Reference(s) (Section, Page)	Content of RFP requiring clarification	Points of clarification required

### 11.7 Amendment of RFP Document

At any time before the deadline for submission of bids, the AMC/SCADL, may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder,

modify the RFP Document by an amendment, which will form the part of the original bid documents and shall override any contradicting effects in the original bid document.

In order to provide prospective bidders reasonable time in which to take the amendment into account in preparing their bids, the AMC/SCADL may, at its discretion, extend the last date for the receipt of bids.

The bidders are advised to visit the website (n)Procure website (<https://www.nprocure.com/>) on regular basis for checking necessary updates. AMC/SCADL also reserves the rights to amend the dates mentioned in this RFP for bid process.

### 11.8 AMC/SCADL's rights to terminate the Process

AMC/SCADL may terminate the RFP process at any time and without assigning any reason. AMC/SCADL makes no commitments, express or implied, that this process will result in a business transaction with anyone. This RFP does not constitute an offer by AMC/SCADL.

### 11.9 Right to Accept or Reject Any Bid or All Bids

AMC/SCADL reserves the right to accept or reject any bid and annul the bidding process and reject all bids at any time prior to award of contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the ground for AMC/SCADL's action.

### 11.10 Sealing, marking and submission of Proposal

The proposal documents shall be put in a large envelop having two separate envelopes containing

1. **1st Envelop:** Duly signed RFP documents, Addenda & Corrigendum if any along with all necessary supporting documents (prequalification checklist & related documents, technical proposal) super scribed as "Proposal Documents"
2. **2nd Envelop:** Tender Fee & EMD shall be super scribed as "Tender Fee & EMD"

The large envelope / outer envelope containing above envelopes must be sealed and super scribed and shall be sent as under:

Details to be mentioned exactly on sealed envelop	
<b>RFP Details</b> <ul style="list-style-type: none"><li>• <b>Notice No.:</b> SCADL_RFP_23-24_01</li><li>• RFP for selection of System Integrator (SI) for implementation of e-Challan system with advanced analytics for Ahmedabad City</li></ul>	To, The Chief Executive Officer, Smart City Ahmedabad Development Ltd., Command and Control Centre, Opp. Divan Ballubhai School, Nr. Sanskar Kendra, Paldi, Ahmedabad: 380007

- |  |  |
|--|--|
| <ul style="list-style-type: none"><li>• <b>Last date of Submission:</b> On or before 14/02/2024 up to 17:00 hrs.</li></ul> |  |
|--|--|

AMC/SCADL will not accept submission of a proposal in any manner other than that specified in the RFP document. Proposals submitted in any other manner shall be treated as defective, invalid and rejected.

If the envelopes are not sealed and marked as instructed above, the AMC/SCADL assumes no responsibility for the misplacement or premature opening of the contents of the application and consequent losses, if any suffered by the Bidder.

Each Bidder shall submit only one RFP proposal containing documents as below. A bidder who submits more than one RFP under this contract will be disqualified

- (i) Original copy of the tender fee & EMD
- (ii) Pre-qualification criteria related documents
- (iii) Duly signed RFP, Addenda & Corrigendum
- (iv) Technical proposal related documents
- (v) The Bidder shall prepare original set of the Application (together with originals /copies of documents required to be submitted along therewith pursuant to this RFP document) and applicant shall also provide a soft copy on a Compact Disc (CD) / Pen Drive / USB stick. In the event of any discrepancy between the original and CD/Pen Drive/USB stick, the original shall prevail
- (vi) Each page of the above should bear the initials of the Applicant along with the seal of the Applicant in token of confirmation of having understood the contents

Pre-qualification and technical proposal should be signed by an authorized person of the bidder. The pre-qualification proposal should be submitted along with a certified true copy of a board resolution/power of attorney empowering authorized signatory to sign/act/execute documents binding the bidder organization to the terms and conditions detailed in this proposal.

Proposals must be direct, concise, and complete. AMC/SCADL will evaluate bidder's proposal based on its clarity and completeness of its response to the requirements of the project as outlined in this RFP. The Chairman, AMC/SCADL reserves the right to accept or reject any or all the proposals without assigning any reason.

#### **11.11 Late Proposal for RFP**

Proposal not reaching on or before the specified time limit will not be accepted.



### **11.12 Language of Bids**

The responses prepared by the bidder and all correspondence and documents relating to the bids exchanged by the bidder and AMC/SCADL, shall be written in English language. Any printed literature furnished by the bidder in another language shall be accompanied by an English translation, in which case, for purposes of interpretation of the bid, the English translation shall govern.

If any supporting documents submitted are in any language other than English, translation of the same in English language is to be duly attested by the bidder.

### **11.13 Proposal Submission Format**

The entire proposal shall be strictly as per the format specified in this RFP. Bids with deviation from this format shall be liable for rejection.

### **11.14 Acceptance of Terms & Conditions**

The bidder will, by taking participation in the bidding process and submitting the bid documents, be deemed to have thoroughly read, studied and understood the bid documents including scope of work, the terms and conditions, instructions, etc. referred there in and the same are acceptable to the bidder.

### **11.15 Documents to be submitted**

Following list is provided as the guideline for submitting various important documents along with the bid.

- (i) Cover Letter
- (ii) Board Resolution / Power of Attorney executed by the bidder authorizing the signing authority to sign/execute the proposal as a binding document and also execute all relevant agreements forming part of RFP
- (iii) Bidders' Particulars as per format given in RFP
- (iv) Certificate of Registration/Certificate of Incorporation
- (v) Audited Financial statements and relevant certificates
- (vi) Copy of Work Order/Work Completion Certificate & Self Declaration
- (vii) GST Registration and Income Tax Certificate
- (viii) Declaration regarding blacklisting in the given format
- (ix) Signed & Stamped RFP document along with Addenda & Corrigendum if any
- (x) Any other document necessary for the bid proposal

## **11. 16 Bid Evaluation Process**

### **11.16.1 Opening of Bids**

1. The bids that are submitted online & Physical successfully shall be opened online & offline as per date and time given in Proposal Data Sheet, through proper procedure only in the presence of bidders.



2. Bids shall be opened either in the presence of bidders or its duly authorized representatives. The bidder representatives who are present shall sign a register evidencing their attendance. Two representatives per applicant shall be permitted to be present at the time of opening the tender.
3. Total transparency will be observed and ensured while opening the Proposals/Bids.
4. SCADL always reserves the rights to postpone or cancel a scheduled Bid opening.
5. Bid opening will be conducted in three stages
  - (i) In the first stage, Pre-qualification Proposals would be opened. The EMD & tender fee of the Bidders will be opened on the same day and time, on which the Pre-qualification Proposal is opened.
  - (ii) In the second stage, Technical Proposals of Bidders who pass the Pre-qualification criteria will be opened.
  - (iii) In the third stage, Commercial Proposal of those Bidders whose Technical Proposals qualify, would be opened.
  - (iv) In the event of the specified date of Bid opening being declared a holiday for SCADL, the bids shall be opened at the same time and location on the next working day. In addition to that, if their representative of the Bidder remains absent, SCADL will continue process and open the bids of all Bidders.

#### **11.16.2 Selection Process for Bidders**

1. SCADL will appoint a Technical Evaluation Committee (TEC) to scrutinize and evaluate the prequalification of bidders, technical and commercial bids received. The TEC will examine the Bids to determine whether they are complete and whether the Bid format conforms to the Bid Document requirements. SCADL may waive off any informality or nonconformity in a Bid which does not constitute a material deviation according to SCADL.
2. The evaluation process of the RFP proposed to be adopted by SCADL is indicated under RFP section 11.16.3 below. The purpose of this clause is only to provide the Bidder(s) an idea of the evaluation process that the SCADL may adopt. However, SCADL reserves the right to modify the evaluation process at any time during the Tender process, without assigning any reason, whatsoever, and without any requirement of intimating the Bidder(s) of any such change.

#### **11.16.3 Evaluation of Bids**

1. SCADL shall constitute a Tender Evaluation Committee to evaluate the responses of the bidders. The Tender Evaluation Committee shall evaluate the responses to the RFP and all supporting documents/documentary evidence. Inability to submit requisite supporting documents/documentary evidence by bidders may lead to rejection of their bids.

2. The Committee may seek inputs from their professional and technical experts in the evaluation process.
3. SCADL reserves the right to do a reference check of the experience stated by the Bidder. Any feedback received during the reference check shall be considered during the technical evaluation process.
4. The decision of the Tender Evaluation Committee in the evaluation of bids shall be final. No correspondence will be entertained outside the process of evaluation with the Committee. The Tender Evaluation Committee may ask for meetings or presentation with the Bidders to seek clarifications or conformations on their bids.
5. The Tender Evaluation Committee reserves the right to reject any or all bids. Each of the responses shall be evaluated as per the criteria and requirements specified in this RFP.
6. Proposal Presentations: The Tender Evaluation Committee will invite each pre-qualified Bidder to make a presentation to SCADL at a date, time and venue decided by SCADL. The purpose of such presentations would be to allow the Bidders to present their proposed solutions to the Committee and orchestrate the key points in their Proposals.
7. During the bid evaluation, SCADL may at its discretion, ask the bidder for a clarification of its bid. The request for clarification and the response shall be in writing, and no change in the price or substance of the bid shall be sought, offered, or permitted. SCADL is entitled to ask for clarifications as many times as possible from the bidders to the satisfaction of the Technical Evaluation committee.
8. If the bidder fails to provide the clarification or additional information sought in the stipulated time, the information provided in the technical proposal only will be used for evaluation. It is clearly understood that the additional information or clarification on the technical proposal provided by the bidders will not be the basis for affecting any changes in the Commercial Proposal already submitted by the bidders.
9. There should be no discrepancy between the online submitted documents & physical bid submission documents. If any discrepancy found than SCADL will consider the details submitted in physical bid documents for further evaluation. Here note that commercial bid needs to be submitted online only.
10. The steps for evaluation are as follows:

#### **Stage 1: Pre-Qualification**

1. SCADL will examine the bids to determine whether they are complete, responsive, whether required Tender Fee and EMD has been furnished, whether the letters/certificates have been properly signed, and whether the bids are generally in order. Any bids found to be non-responsive for any reason or not meeting any criteria specified in the tender, will be rejected by SCADL and shall not be included for further consideration. Any deviations in proposal response may make the bid liable for rejection.

2. All eligible bids will be considered for further evaluation by an Evaluation Committee according to the evaluation process defined in this Bidding document.
3. Each of the Pre-Qualification condition mentioned in Pre-qualification criteria Section is MANDATORY. In case, the Bidder does not meet any one of the conditions, the bidder shall be disqualified.
4. Bidders would be informed of their qualification/disqualification based on the Pre-Qualification criteria through email and/or Phone and subsequently, the Bid Security amount shall be returned to the respective disqualified Bidders after the submission of Performance Bank Guarantee by the successful Bidder.

### **Stage 2: Technical Evaluation**

1. Technical bid will be evaluated only for the bidders who succeed in Stage 1.
2. SCADL will review the technical bids of the short-listed bidders to determine whether the technical bids are responsive. Bids that are not responsive are liable to be disqualified.
3. The bidders' 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 RFP.
4. Each Technical Bid will be assigned a technical score (T) out of a maximum of 100 marks. **Only the bidders who get total of minimum 60 marks will qualify for commercial evaluation stage.** Failing to secure minimum marks shall lead to technical rejection of the Bid

### **Stage 3: Commercial Evaluation**

1. The commercial bids shall not be opened by SCADL until the evaluations of technical bids have been completed. The technically shortlisted Bidders will be informed of the date and venue of the opening of the Commercial Proposals through email or written communication.
2. The commercial evaluation will be done on Least Cost/Lowest Cost (L1) basis. L1 price will be the lowest total cost of AO of table – A of financial bid.
3. If L1 bidder fails to comply to any of the RFP terms and conditions, it will be considered as a non-performance of the L1 bidder and SCADL will have the rights to give the scope of the selected bidder to a next successful bidder as per the requirement. SCADL's decision will be final in such cases. In this case, L2 bidder will be given a chance to match L1 rate and if bidder agrees, work will be awarded to the L2 bidder. In case of failure of L2 bidder, the same process will continue till Ln bidder (where Ln is the last qualified bidder)
4. In case of abnormally low bid, SCADL will also have a right to reject the bid of successful bidder(s) L1, if the evidence supplied does not satisfactorily account for the low price or costs proposed. If a bid is rejected due to this reason, SCADL will have a right to make a similar determination for the next-ranked bid. SCADL may award the contract to the next-ranked bidder, provided that the bid is not determined to be similarly abnormally low. The same process will continue till Ln bidder (where Ln is the last qualified bidder)

5. The bid should clearly indicate the price to be charged without any qualifications whatsoever and should exclude all taxes, duties, fees, levies and other charges as may be applicable in relation to the activities proposed to be carried out. SCADL reserves the right to ask the Bidder to submit proof of payment against any of the taxes, duties, levies indicated.
6. The taxes quoted in the offer should be as per the prevailing tax rates. Any subsequent increase in the tax rates or introduction of new tax will be paid by SCADL. Similarly, any benefits arising due to downward revision in tax rates, or any exemptions availed by the Bidders organization should be passed on to SCADL.
7. Commercial of BoQ line items must be entered online only.
8. An adjustable price quotation or conditional proposal shall be treated as non-responsive and the bid may be rejected.
9. Bidders are advised to exercise adequate care in quoting the prices. No excuse for corrections in the quoted figures will be entertained after the commercial proposals are received.
10. Errors & Rectification: Arithmetical errors will be rectified on the following basis:
  - (i) 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.
11. If there is a discrepancy between words and figures, the amount in words will prevail.
12. Bidders shall indicate the unit rates and total Bid Prices of the equipment/ services, it proposes to provide under the Contract. Prices should be shown separately for each item as required in the tender.
13. Bidder should not leave any field blank. In case the field is not applicable, Bidder must indicate "o" (Zero) in all such fields.
14. If there is no price quoted for certain material or service, the bid shall be declared as disqualified. The bidder has to bid for total products and solutions.
15. The Bidder needs to account for all Out-of-Pocket expenses related to Boarding, Lodging and other related items in the commercial bids. Any additional charges must be borne by the bidder. For evaluation of Commercial Bids, SCADL shall make appropriate assumptions as mentioned below to arrive at a common bid price for all the Bidders. This however shall have no co-relation with the Contract value or actual payment to be made to the Bidder.
16. It is mandatory to provide break up of all taxes, duties and levies wherever applicable and/or payable. The taxes quoted in the offer should be as per the prevailing tax rates. Any subsequent increase in the tax rates or introduction of new tax will be paid by SCADL. Similarly, any benefits arising due to downward revision in tax rates, or any exemptions availed by the Bidders organization should be passed on to SCADL. The bid amount shall be inclusive of packing, forwarding, transportation, insurance, delivery charges and any other charges as applicable. Any other charges as applicable shall be borne by the bidder.

### **11.17 AMC/SCADLs' Rights to Accept/Reject any or all Proposals**

AMC/SCADL reserves the right to accept or reject any proposal, and to annul the bidding process and reject all bids, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds for AMC/SCADLs' action.

### **11.18 Notifications of consideration for next level**

Prior to the expiration of the period of proposal validity, the bidder will be notified in writing or by email that it has been considered for the next round.

### **11.19 Failure to agree with the Terms & Conditions of the RFP**

Failure of the bidder to agree with the Terms & Conditions of the RFP shall constitute sufficient grounds for the annulment of selection.

### **11.20 Naming Convention for files**

The bidders need to strictly follow the below mentioned File Nomenclature rules while uploading the documents in the bidding portal. For documents mentioned under Eligibility Criteria, the file naming should be Eligibility Criteria\_ [Document \_Name] For example:

- Eligibility Criteria\_ Copy\_of\_Certification\_of\_Incorporation
- Eligibility\_Criteria\_PAN\_Card
- Eligibility\_Criteria\_GST Registration
- Eligibility\_Criteria\_Financial\_Statement\_Turnover
- Eligibility\_Criteria\_Financial\_Statement\_Networth
- Eligibility\_Criteria\_OEM\_PO Copy
- Eligibility\_Criteria\_OEM\_Undertaking Letter
- Eligibility\_Criteria\_Self\_Declaration\_Blacklisting

For the documents in Annexures, the file naming should be: Anx\_ [S.no of Annexure] \_ [Annexure Name]

For example:

- Anx\_I\_CoverLetter
- Anx\_II\_Bidder Information Sheet

In case of any large file (exceeding 3MB) which need to be split in two parts or more, the naming should be:

- Anx\_I\_CoverLetter \_Part\_1
- Anx\_I\_CoverLetter \_Part\_2

For any other file not covered under this, should be named appropriately as per its contents. All files should be in pdf formats and should not be password protected or encrypted. The files should not be zipped. Any other format of the file other than pdf shall not be considered as part of the submitted bid.

### **11.21 Confidentiality**

1. The SI shall not use Confidential Information, the name or the logo of the Tenderer except for the purposes of providing the Service as specified under this RFP;
2. The SI shall not, either during the term or 6 months after expiration of this Contract, disclose any proprietary or confidential information relating to the Services, Contract or the network architecture, Tenderer's business plan or operations without the prior written consent of the Tenderer.
3. The SI may only disclose Confidential Information in the following circumstances to a member of the SI's Team ("Authorized Person") with the prior written consent of the Tenderer if:
  - a. the Authorized Person needs the Confidential Information for the performance of obligations under this contract;
  - b. the Authorized Person is aware of the confidentiality of the Confidential Information and is obliged to use it only for the performance of obligations under this contract
4. The SI shall do everything reasonably possible to preserve the confidentiality of the Confidential Information including execution of a confidential agreement with the members of the subcontractors and other service provider's team members to the satisfaction of the Tenderer.
5. The SI shall be responsible for any breach of the confidentiality clause by its antecedents or delegates or its subcontractors.
6. The SI shall notify the Tenderer promptly if it is aware of any disclosure of the Confidential Information otherwise than as permitted by this Contract or with the authority of the Tenderer.
7. The Tenderer reserves the right to adopt legal proceedings, civil or criminal, against the SI in relation to a dispute arising out of breach of obligation by the SI under this clause.

### **11.22 Severance**

1. In the event any provision of this Contract is held to be invalid or unenforceable under the applicable law, the remaining provisions of this Contract shall remain in full force and effect.

### **11.23 Compliance of laws**

1. SI shall perform their duties in strict compliance with all applicable laws in India along with rules & regulations of the duly constituted Government authorities in India and shall obtain all licenses and necessary approvals, if any, required by laws in India in connection with the services to be rendered hereunder.
2. SI shall be responsible for monitoring of data traffic from users w.r.to unlawful activities.

### **11.24 Indemnity**

1. The SI shall indemnify and defend SCADL and its representatives & employees and hold SCADL, its representatives, employees harmless from:
  - a) Damages and losses caused by its negligent or intentional act or omission or any damages and losses caused by the negligent act of any third party or sub-contractor or agency engaged by the SI;
  - b) Damages and losses resulting from the non-compliance with the established obligations; Third Party claim against SCADL or its nominated agency that any Deliverables/Services/Equipment provided by the SI infringes a copyright, trade secret, patents or other intellectual property rights of any third party in which case the SI shall defend such claim at its expense and shall pay any costs or damages that may be finally awarded against SCADL or its nominated agency.
  - c) Any environmental damages caused by SI and/or its representatives or employees or employees of any third party or sub-contractor or agency engaged by the SI.
  - d) Breach (either directly by SI or through its representatives and/or employees) of any representation and guarantee declared herein by SI;
  - e) Any and all claims, actions, suits, proceedings, taxes, duties, levies, costs, expenses, damages and liabilities, including attorneys' fees, arising out of, connected with, or resulting from or arising in connections with the services provided due to neglect, omission or intentional act.

### **11.25 Resolution of disputes**

1. If any dispute arises between the Parties hereto during the subsistence or thereafter, in connection with the validity, interpretation, implementation or alleged material breach of any provision of the Agreement or regarding a question, including the questions as to whether the termination of the Contract Agreement by one Party hereto has been legitimate, both Parties hereto shall endeavor to settle such dispute amicably.
2. The attempt to bring about an amicable settlement is considered to have failed as soon as one of the Parties hereto, after reasonable attempts [which attempt shall continue for not less than 30 (thirty) days], give 15 days' notice thereof to the other Party in writing.
3. In the case of such failure, the dispute shall be referred to the Chairman, SCADL as a first level of arbitration. The place of the arbitration shall be Ahmedabad, Gujarat.
4. The Arbitration proceeding shall be governed by the Arbitration and Conciliation Act of 1996 as amended. The proceedings of arbitration shall be in English language. The arbitrator's award shall be substantiated in writing. The arbitration tribunal shall also decide on the costs of the arbitration procedure.

### **11.26. Force Majeure & Vandalism**

1. In the event that any Damages to items due to Vandalism (physical Majeure attack by public, tampering of equipment by SCADL staff or traffic police staff and damage due to accidents) or due to Force Majeure events (such as earthquake, fire, flood, natural

calamities, acts of the public enemy, civil commotion, sabotage, explosions, epidemics, quarantine restrictions, strikes, lockouts, war or hostility, act of God) of any kind during Warranty Period and Maintenance Period shall be the liability of SCADL. In such case, SCADL/Authority shall request the System Integrator to repair/replace the damaged unit and reinstall the same. All costs towards the same shall be reimbursed by SCADL/Authority to the System Integrator less of insurance proceeds if need of replacement so arise then replacement shall be on tender rates only.

2. The System Integrator shall not be liable for forfeiture of its Performance Guarantee, imposition of liquidated damages or termination for default, if and to the extent that it's delays in performance or other failure to perform its obligations under the contract is the result of an event of Force Majeure. For purposes of this Clause, "Force Majeure" means an event beyond the "reasonable" control of the System Integrator, not involving the System Integrator's fault or negligence and not foreseeable. Such events may include Acts of God & acts of Government of India in their sovereign capacity.
3. For the SI to take benefit of this clause it is a condition precedent that the SI must promptly notify the SCADL, in writing of such conditions and the cause thereof within 7 calendar days of the Force Majeure event arising. SCADL, or the consultant / committee appointed by the SCADL shall study the submission of the SI and inform whether the situation can be qualified one of Force Majeure. Unless otherwise directed by the SCADL in writing, the SI shall continue to perform its obligations under the resultant Agreement as far as it is reasonably practical and shall seek all reasonable alternative means for performance of services not prevented by the existence of a Force Majeure event.
4. In the event of delay in performance attributable to the presence of a force majeure event, the time for performance shall be extended by a period(s) equivalent to the duration of such delay. If the duration of delay continues beyond a period of 30 days, SCADL and the SI shall hold consultations with each other in an endeavor to find a solution to the problem. Notwithstanding anything to the contrary mentioned above, the decision of the SCADL shall be final and binding on the SI.

### **11.27 Insurance**

1. The bidder during the term of this contract undertakes to ensure that it has taken or shall take up all appropriate insurances & shall pay all premium in relation thereto and shall ensure that nothing is done to make such insurance policies void or voidable at the Tenderer's request, shall provide certificate of insurance to the Tenderer showing that such insurance has been taken out and maintained. Insurance will include employer's liability and workers' compensation insurance in respect of the Personnel of the bidder / bidder's Team, in accordance with the relevant provisions of the Applicable Law, as well as, with respect to such Personnel, any such life, health, accident, travel or other insurance as may be appropriate.
2. The bidder shall submit to the SCADL, certificate of insurance issued by the insurance company, indicating that such insurances have been taken & certificate has to be submitted by bidder to SCADL. Bidder shall be designated as the 'loss payee' in such insurance policies; bidder shall be liable to pay premium for the insurance policy & shall ensure that each & every policy shall keep updated from time to time till end of contract



period. In case of delayed procurement of insurance from selected bidder, all responsibilities will be on bidder before taking the insurance.

### **11.28 Risk Purchase**

1. Purchaser on identifying any material breach of contract by Bidder, shall give Bidder a cure period of 90 days to correct the breach. If Bidder fails to cure the breach in the said time duration and accept its inability to correct, purchaser may terminate the part of the contract that is breached and employ a third party to do the work on behalf of purchaser.
2. Bidder shall not be liable for any compensation for the work executed this way. This procurement from a third party will be done at the selected bidder's (who has failed to perform its obligations & thus defaulted) risk, cost and responsibility. Any incremental cost borne by the Tenderer in procuring such Hardware / Services / Deliverables shall be borne by the selected bidder (who has failed to perform its obligations & thus defaulted). Any such incremental cost incurred in the procurement of such Hardware / Services / Deliverables from other source will be recovered from the pending due and payable Payments / Security Deposit / Bank Guarantee provided by the selected bidder (defaulted bidder) under this scope of this RFP and if the value of the Hardware / Services / Deliverables under risk purchase exceeds the amount of pending payable payments / Security Deposit and / or Bank Guarantee, the same may be recovered, if necessary, by due legal process.
3. Bidder shall execute the balance part of work as agreed under the contract.

### **11.29 Termination**

1. The Tenderer may, terminate this Contract in full or in part by giving the SELECTED BIDDER a prior and written notice indicating its intention to terminate the Contract under the following circumstances:
  - a) Where the Tenderer is of the opinion that there has been such Event of Default on the part of the SELECTED BIDDER which would make it proper and necessary to terminate this Contract and may include failure on the part of the SELECTED BIDDER to respect any of its commitments with regard to any part of its obligations under its Bid, the RFP or under this Contract including the following:
    - i. failure to perform the obligations under the Contract;
    - ii. the SELECTED BIDDER and its team have failed to conform with any of the service specifications as set out in the RFP and the Contract;
    - iii. the SELECTED BIDDER has failed to demonstrate or sustain any representation or warranty made by it in this Contract, with respect to any of the terms of its Proposal, the RFP and this Contract;
  - iv. The SELECTED BIDDER has failed to comply with any terms and conditions of this RFP & the Contract;
  - v. There is an undue delay in achieving the agreed timelines for delivering the services under this Contract due to reasons solely attributable to the SELECTED BIDDER;
  - vi. If it comes to knowledge of the Tenderer that the SELECTED BIDDER or any of

- their personnel have been involved in any fraudulent or corrupt practices or any other practice of similar nature;
- vii. Where it comes to the Tenderer's attention that the SELECTED BIDDER (or the SELECTED BIDDERS' Team) is in a position of actual conflict of interest with the interests of the Tenderer, in relation to any of the terms of the SELECTED BIDDER's Bid, the RFP or this Contract.
  - viii. Where the SELECTED BIDDER's ability to survive as an independent corporate entity is threatened or is lost owing to any reason whatsoever, including inter-alia the filing of any bankruptcy proceedings against the SELECTED BIDDER, any failure by the SELECTED BIDDER to pay any of its dues to its creditors, the institution of any winding up proceedings against the SELECTED BIDDER or the happening of any such events that are adverse to the commercial viability of the SELECTED BIDDER. In the event of the happening of any events of the above nature, the Tenderer shall reserve the right to take any steps as are necessary, to ensure the effective transition of the project to a successor SELECTED BIDDER and to ensure business continuity.
- b) Where there has been an occurrence of such Event of Defaults, inter alia, as stated above, the SCADL shall issue a notice of default to the SELECTED BIDDER, setting out specific defaults / deviances / omissions and providing a period of fifteen (15) days to enable the SELECTED BIDDER to remedy the default/ deviances / omissions committed. It shall be the responsibility of the SELECTED BIDDER to maintain the agreed Quality of Service, even during the period when the notice for termination of agreement is pending and if the Quality of Performance of Solution is not maintained, during the said notice period, it shall be treated as material breach liable for termination at risk and consequent of SELECTED BIDDER and Performance Bank Guarantee shall be forfeited, without any further notice.
  - c) **Termination for Insolvency:** The Tenderer may at any time terminate the Contract by giving written notice to the SELECTED BIDDER, without compensation to the SELECTED BIDDER, if the SELECTED BIDDER becomes bankrupt or otherwise insolvent, provided that such termination shall not prejudice or affect any right of action or remedy which has accrued or shall accrue thereafter to the Tenderer.
  - d) **Termination for Convenience:** The Tenderer, may, by prior written notice sent to the SELECTED BIDDER at least 2 months in advance, terminate the Contract, in whole or in part at any time for its convenience. The notice of termination shall specify that termination is for the Tenderer's convenience, the extent to which performance of work under the Contract is terminated, and the date upon which such termination becomes effective.
2. The SELECTED BIDDER may, subject to approval by the Tenderer, terminate this Contract before the expiry of the term by giving the Tenderer a prior and written notice at least 6 months in advance indicating its intention to terminate the Contract.

### **11.30 Consequences of termination**

1. In the event of termination of this contract due to any cause whatsoever, the contract with stand cancelled effective from the date of termination of this contract.
2. In case of exigency, if the Tenderer gets the work done from elsewhere, the difference in the cost of getting the work done shall be borne by the SELECTED BIDDER as mentioned in clause – 6.19 (Risk Purchase) unless the Termination is due to any act and/or omission by the reason solely attributable to Tenderer.
3. Where the termination of the Contract is prior to its stipulated term on account of a Default on the part of the SELECTED BIDDER or due to the fact that the survival of the SELECTED BIDDER as an independent corporate entity is threatened/has ceased, or for any other reason, whatsoever, the Tenderer through re-determination of the consideration payable to the SELECTED BIDDER as agreed mutually by the Tenderer and the SELECTED BIDDER or through a third party acceptable to both the parties may pay the SELECTED BIDDER for that part of the Services which have been authorized by the Tenderer and satisfactorily performed by the SELECTED BIDDER up to the date of termination. Without prejudice to any other rights, the Tenderer may retain such amounts from the payment due and payable by the Tenderer to the SELECTED BIDDER as may be required to offset any losses caused to the Tenderer as a result of any act/omissions of the SELECTED BIDDER. In case of any loss or damage due to default on the part of the SELECTED BIDDER in performing any of its obligations with regard to the execution of the scope of work under this Contract, the SELECTED BIDDER shall compensate the Tenderer for any such loss, damages or other costs, incurred by the Tenderer. Additionally, other members of its team shall perform all its obligations and responsibilities under this Contract in an identical manner as were being performed before the collapse of the SELECTED BIDDER as described above in order to execute an effective transition and to maintain business continuity. All third parties shall continue to perform all/any functions as stipulated by the Tenderer and as may be proper and necessary to execute the scope of work under the Contract in terms of the SELECTED BIDDER's Bid, the RFP and this Contract.
4. Nothing herein shall restrict the right of the Tenderer to invoke the Bank Guarantee and other Guarantees furnished hereunder, enforce the Deed of Indemnity and pursue such other rights and/or remedies that may be available to the Tenderer under law.
5. The termination hereof shall not affect any accrued right or liability of either Party nor affect the operation of the provisions of this Contract that are expressly or by implication intended to come into or continue in force on or after such termination.
6. Actions pursuant to Termination of Agreement:
7. Notwithstanding any other rights and remedies provided elsewhere in the agreement, upon termination of this agreement.
  - a) Neither Party shall represent the Other Party in any of its dealings.
  - b) Neither Party shall intentionally nor otherwise commit any act(s) as would keep a third party to believe that the other Party is still the former Party's service provider, as the case may be.
  - c) Each party shall stop using the other Party's name, trademark, etc., in any audio or visual

form.

### 11.31 Exit Management

- a) This sets out the provisions, which will apply on expiry or termination of the Master Service Agreement, the Project Implementation, Operation and Management SLA.
- b) In the case of termination of the Project Implementation and/or Operation and Management, the Parties shall agree at that time whether and if so during what period, the provisions of this Schedule shall apply.
- c) The Parties shall ensure that their respective associated entities carry out their respective obligations set out in this Exit Management Schedule.

#### 1. Cooperation and provision of Information

During the exit management period:

- a) The SI will allow the purchaser or its nominated agency access to information reasonably required to define the then current mode of operation associated with the provision of the services to enable the purchaser to assess the existing services being delivered.
- b) Promptly on reasonable request by the purchaser, the SI shall provide access to and copies of all information held or controlled by them which they have prepared or maintained in accordance with this agreement relating to any material aspect of the services (whether provided by the System integrator or sub-contractors appointed by the SI). The purchaser shall be entitled to copy of all such information. Such information shall include details pertaining to the services rendered and other performance data. The SI shall permit the purchaser or its nominated agencies to have reasonable access to its employees and facilities, to understand the methods of delivery of the services employed by the SI and to assist appropriate knowledge transfer.

#### 2. Confidential Information, Security and data

- a) The SI will promptly on the commencement of the exit management period supply to the purchaser or its nominated agency the following:
  - Information relating to the current services rendered and customer and performance data relating to the performance of sub-contractors in relation to the services;
  - Documentation relating to Intellectual Property Rights;
  - Documentation relating to sub-contractors;
  - All current and updated data as is reasonably required for purposes of purchaser or its nominated agencies transitioning the services to its Replacement *SI* in a readily available format nominated by the purchaser, its nominated agency;
  - All other information (including but not limited to documents, records and agreements) relating to the services reasonably necessary to enable purchaser or its nominated agencies, or its Replacement *SI* to carry out due diligence in order to transition the provision of the Services to purchaser or its nominated agencies, or its Replacement *System integrator* (as the case may be).
- b) Before the expiry of the exit management period, the SI shall deliver to the purchaser or its nominated agency all new or up-dated materials from the categories set out in schedule above

and shall not retain any copies thereof, except that the SI shall be permitted to retain one copy of such materials for archival purposes only.

3. Transfer of certain Agreements

- a) On request by the purchaser or its nominated agency the *SI* shall effect such assignments, transfers, licenses and sub-licenses purchaser, or its Replacement *SI* in relation to any equipment lease, maintenance or service provision agreement between *SI* and third-party lessors, vendors, and which are related to the services and reasonably necessary for the carrying out of replacement services by the purchaser or its nominated agency or its Replacement *SI*.

4. General obligations of the SI

- a) The SI shall provide all such information as may reasonably be necessary to effect as seamless a handover as practicable in the circumstances to the purchaser or its nominated agency or its Replacement SI and which the SI has in its possession or control at any time during the exit management period.
- b) For the purposes of this Schedule, anything in the possession or control of any SI, associated entity, or sub-contractor is deemed to be in the possession or control of the SI.
- c) The SI shall commit adequate resources to comply with its obligations under this Exit Management Schedule.

5. Exit Management Plan

- a) The *SI* shall provide the purchaser or its nominated agency with a recommended exit management plan ("Exit Management Plan") which shall deal with at least the following aspects of exit management in relation to the MSA as a whole and in relation to the Project Implementation, and the Operation and Management SLA.
  - A detailed program of the transfer process that could be used in conjunction with a Replacement *SI* including details of the means to be used to ensure continuing provision of the services throughout the transfer process or until the cessation of the services and of the management structure to be used during the transfer;
  - Plans for the communication with such of the SI's sub-contractors, staff, suppliers, customers and any related third party as are necessary to avoid any material detrimental impact on the purchaser's operations as a result of undertaking the transfer;
  - (If applicable) proposed arrangements for the segregation of the SI's networks from the networks employed by purchaser and identification of specific security tasks necessary at termination;
  - Plans for provision of contingent support to purchaser, and Replacement SI for a reasonable period after transfer.
- b) The SI shall re-draft the Exit Management Plan annually thereafter to ensure that it is kept relevant and up to date.
- c) Each Exit Management Plan shall be presented by the SI to and approved by the Purchaser or its nominated agencies.

- d) The terms of payment as stated in the Terms of Payment Schedule include the costs of the SI complying with its obligations under this Schedule.
- e) In the event of termination or expiry of MSA, and Project Implementation, each Party shall comply with the Exit Management Plan.
- f) During the exit management period, the SI shall use its best efforts to deliver the services.
- g) Payments during the Exit Management period shall be made in accordance with the Terms of Payment Schedule.
- h) This Exit Management plan shall be furnished in writing to the purchaser or its nominated agencies within 90 days from the Effective Date of this Agreement.

### **11.32 Limitation of liability**

- 1. Successful bidder's cumulative liability for its obligations under the contract shall not exceed the contract value.
- 2. If the contract is partially completed, then in such case successful bidder's cumulative liability will not exceed the contract value of remaining/pending work of the contract.

### **11.33 General Instructions for the Technical Proposal**

Bidders have to submit a structured and organized technical proposal, which will be analyzed by SCADL/AMC for different compliances with regards to the requirements of the project. Each point listed below must be provided in detail with the necessary supporting documents and assumptions. Information to be included by the bidders in their Technical Proposal is as follows:

- 1. Understanding of Project Scope – Bidders may also propose any additional scope which they deem necessary to achieve objectives set out for the project
- 2. Approach & Methodology for successfully implementing all use cases with required % accuracy as per SoW..
- 3. Approach to further train video analytics software / application for achieving incremental % accuracy in 2nd year O&M and onwards.
- 4. Detailing of Project Risks & Mitigation Plan
- 5. Details on functional aspects of various algorithms used by video analytics software.
- 6. The EMD may be forfeited:
  - a) If a bidder withdraws their bid or increases their quoted prices during the period of bid validity or its extended period, if any; or
  - b) In the case of a successful bidder, if the bidder fails to sign the Contract or to furnish Performance Bank Guarantee within specified time
  - c) During the bid process, if a bidder indulges in any such deliberate act as would jeopardize or unnecessarily delay the process of bid evaluation and finalization
  - d) During the bid process, if any information found wrong/manipulated/hidden in the bid
  - e) If bidder's financial bid is found abnormally low as the evidence supplied does not satisfactorily account for the low price or costs proposed.

7. The successful bidder who is awarded the Work Order shall be required to deposit a Performance bank guarantee @ 10% of the total contract value (the sum total of AO (from table – A of financial bid) in the form of unconditional Bank Guarantee from any scheduled bank in favor of “Smart City Ahmedabad Development Limited, Ahmedabad (from all Nationalized banks including the Public sector banks - IDBI Ltd. Or Private sector banks - AXIS Bank, ICICI Bank and HDFC Bank) within 7 days of award of work, covering the period of contract and 180 days beyond the contract period. In case, the contract is further extended beyond the initial period, the Bank Guarantee will have to be accordingly extended/renewed by the successful agency/bidder. All incidental charges whatsoever such as premium, commission etc. with respect to the Bank Guarantee shall be borne by the successful bidder. Non-deposit of PBG within the stipulated time shall render the award of contract invalid at the discretion of SCADL.

## 12. Formats & Checklist to be used for the Proposal Submission

### 12.1 RFP Cover Letter

*(To be submitted on Bidder's letterhead duly signed by Authorized signatory)*

Date: DD/MM/YYYY

To,  
The Chief Executive Officer  
Smart City Ahmedabad Development Limited  
Command and Control Centre,  
Opp. Divan Ballubhai School,  
Nr. Sanskar Kendra, Paldi,  
Ahmedabad: 380007.

**Sub :** “Implementation of e-Challan system with advanced analytics for Ahmedabad City”

**Ref :**

Dear Sir,

Having examined the RFP, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to provide the professional services as required and outlined in the RFP for “**selection of System Integrator (SI) for implementation of e-Challan system with advanced analytics for Ahmedabad City**”.

We attach hereto our responses to pre-qualification requirements and technical proposals as required by the RFP. We confirm that the information contained in these responses or any part thereof, including the exhibits, and other documents and instruments delivered or to be delivered to AMC/SCADL, is true, accurate, verifiable and complete. This response includes all information

necessary to ensure that the statements therein do not in whole or in part mislead the department in its short-listing process.

We fully understand and agree to comply that on verification, if any of the information provided here is found to be misleading the selection process, we are liable to be dismissed from the selection process and legal action.

We agree for unconditional acceptance of all the terms and conditions set out in the RFP document and also agree to abide by this RFP response.

We agree that you are not bound to accept any RFP response you may receive. We also agree that you reserve the right in absolute sense to reject all or any of the products/ services specified in the RFP response.

It is hereby confirmed that I/We are entitled to act on behalf of our company/ corporation/ firm/ organization and empowered to sign this document as well as such other documents, which may be required in this connection.

---

Signature of Authorized Signatory (with official seal)

Name :

Designation :

Address :

Telephone & Fax :

E-mail address :



## 12.2 Checklist for the documents to be submitted in Pre-Qualification Bid

#	Documents to be submitted	Submitted (Y / N)	Documentary Proof (Page No.)
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			

### 12.3 Document checklist for technical Bid

#	Documents to be submitted	Submitted (Y / N)	(Page No.)
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			

## 12.4 Format to share Bidder's Particulars

Sr. No	Description	Details (to be filled by the responder to the RFP)
1.	Name of the company	
2.	Official address	
3.	Phone No. and Fax No.	
4.	Corporate Headquarters Address	
5.	Phone No. and Fax No.	
6.	Web Site Address	
7.	Details of Company's Registration (Please enclose copy of the company registration document)	
8.	Name of Registration Authority	
9.	Registration Number and Year of Registration	
10.	Sales GST registration No.	
11.	Permanent Account Number (PAN)	
12.	Company's Revenue for last 3 years (Year wise)	
13.	Company's Profitability for the last 3 years (Year wise)	

Please submit the relevant proofs for all the details mentioned above along with your Bid response.

Contact Details of officials for future correspondence regarding the bid process:

Details	Authorized Signatory	Contact Person
Name		
Title		
Company Address		
Phone		
Mobile		
Fax		
E-mail		

## 12.5 Format to share Bidder details

Information about responding firm / Company		
a.	Registration details under the Companies Act 1956	
b.	No. of years of operation in India	
c.	Location, address and contact details of Network Operating Center (NOC) if any	
d.	Locations and addresses of offices in Gujarat.	
e.	Locations, addresses and contact details of offices in Ahmedabad	
f.	Turnover (figures as pre last three audited balance sheets are to be provided)	Year-1
		Year-2
		Year-3

Note: Please submit CA Certification for Turnover and Net Worth. Also attach the Auditor Certified financial statements for the last three financial years.

**12.6 PQ – 5 : Format for Declaration by the bidder for not being Blacklisted / Debarred**

(To be submitted on a 300-rupee stamp paper)

Date: DD/MM/YYYY

To  
The Chief Executive Officer  
Smart City Ahmedabad Development Limited  
Command and Control Centre,  
Opp. Divan Ballubhai School,  
Nr. Sanskar Kendra, Paldi,  
Ahmedabad: 380007.

**Sub :** Declaration for not being debarred / black-listed by Central / any State Government department in India as on the date of submission of the bid

Dear Sir,

I/We, the undersigned, herewith declare that my/our company (← name of the firm →) has not been debarred / black-listed by Central / any State Government department in India as on the date of submission of the RFP.

Thanking you,

Yours faithfully,

---

Signature of Authorized Signatory (with official seal)

Date :  
Name :  
Designation :  
Address :  
Telephone & Fax :  
E-mail address :

### 12.7 PQ – 2 & 3 and TQ – 1 : Financial Capability Statement

(On Statutory Auditor's letterhead)

To  
The Chief Executive Officer  
Smart City Ahmedabad Development Limited  
Command and Control Centre,  
Opp. Divan Ballubhai School,  
Nr. Sanskar Kendra, Paldi,  
Ahmedabad: 380007.

I hereby declare that I have scrutinized and audited the financial statement of M/s\_\_\_\_\_. The Net worth and the Turnover of the bidder for last three financial year as per audited statement is as under:

Financial year	Net worth (INR Crore)	Turnover (INR Crore)
FY 2021 - 2022		
FY 2020 - 2021		
FY 2019 - 2020		

---

(Signed and sealed by the statutory auditor)

Date :  
Name :  
Designation :  
Address :  
Telephone & Fax :  
E-mail address :

### 12.8 PQ – 4 and TQ – 2 & 3 : Similar work experience

Note : Bidder will have to provide all required details in supporting documents for TQ – 3, 4 & 5.

To,

The Chief Executive Officer  
Smart City Ahmedabad Development Limited  
Command and Control Centre,  
Opp. Divan Ballubhai School,  
Nr. Sanskar Kendra, Paldi,  
Ahmedabad: 380007.

Sir/Madam,

In response to the Tender Ref. No. \_\_\_\_\_ dated \_\_\_\_\_ for RFP for selection of System Integrator (SI) for implementation of e-Challan system with advanced analytics for Ahmedabad City, as an owner/ partner/ Director of \_\_\_\_\_, I/ We hereby declare that presently our Company/ firm \_\_\_\_\_ has below mentioned similar work experience as required to qualify for this RFP process.

Sr. No.	Project Name	WO issue date	Supporting documents provided
1			
2			
3			

If this declaration is found to be incorrect then without prejudice to any other action that may be taken, my/ our security may be forfeited in full and the tender if any to the extent accepted may be cancelled.

Name of the SI :  
Authorized Signatory :  
Seal of the Organization :  
Business Address :  
Date :  
Place

Please fill one separate form for each project according to pre-qualification criteria/eligibility criteria.

Sr. No.	Criteria	Details
---------	----------	---------

RFP for selection of System Integrator (SI) for implementation of e-Challan system with advanced analytics for Ahmedabad City

1.	Implementer Company	
2.	Customer's Name	
3.	Scope of the Project	Please provide scope of the project in detail, highlight Key Result Areas expected and achieved
4.	Value of Project	
5.	Did the project involve implementation and maintenance	Please provide as much details as possible for specific component of PQ – 4.
6.	Total No. of e-Challan generated (use case wise)	
7.	Completion certificate	Yes / No
8.	Customer Contact Person's detail	
9.	Name	
10.	Designation	
11.	Email	
12.	Phone	
13.	Fax	
14.	Mailing address	

### 12.9 PQ – 5 : Self-Declaration – Not insolvent

<<To be printed on company's letterhead and signed by Authorized signatory>>

Date: dd/mm/yyyy

To,

The Chief Executive Officer  
Smart City Ahmedabad Development Limited  
Command and Control Centre,  
Opp. Divan Ballubhai School,  
Nr. Sanskar Kendra, Paldi,  
Ahmedabad: 380007.

Sir/Madam,

In response to the Tender Ref. No. \_\_\_\_\_ dated \_\_\_\_\_ for RFP for selection of System Integrator (SI) for implementation of e-Challan system with advanced analytics for Ahmedabad City, as an owner/ partner/ Director of \_\_\_\_\_, I/ We hereby declare that presently our Company/ firm \_\_\_\_\_ is having unblemished record and is 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



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the foregoing reasons either indefinitely or for a particular period of time by any State/ Central Government/ PSU.

If this declaration is found to be incorrect then without prejudice to any other action that may be taken, my/ our security may be forfeited in full and the tender if any to the extent accepted may be cancelled.

Name of the SI :  
Authorized Signatory :  
Seal of the Organization :  
Business Address :  
Date :  
Place :

### 12.10 PQ – 5 : Self-Declaration – Not convicted in any criminal offense

<<To be printed on company's letterhead and signed by Authorized signatory>>

Date: dd/mm/yyyy

To,

The Chief Executive Officer  
Smart City Ahmedabad Development Limited  
Command and Control Centre,  
Opp. Divan Ballubhai School,  
Nr. Sanskar Kendra, Paldi,  
Ahmedabad: 380007.

Sir/Madam,

In response to the Tender Ref. No. \_\_\_\_\_ dated \_\_\_\_\_ RFP for selection of System Integrator (SI) for implementation of e-Challan system with advanced analytics for Ahmedabad City, as an owner/ partner/ Director of \_\_\_\_\_, I/ We hereby declare that presently our Company/ firm \_\_\_\_\_ is having unblemished record and does not have our 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 a procurement contract within a period of three years preceding the commencement of the procurement process, or not have been otherwise disqualified either indefinitely or for a particular period of time by any State/ Central Government/ PSU. Also, there is no any criminal case booked by any Government authority against the bidder in any court in last 5 years as on bid submission date.

If this declaration is found to be incorrect then without prejudice to any other action that may be taken, my/ our security may be forfeited in full and the tender if any to the extent accepted may be cancelled.

Name of the SI :  
Authorized Signatory :  
Seal of the Organization :  
Business Address :  
Date :  
Place :

### 12.11 Affidavit

(The affidavit format as indicated below to be furnished on non-judicial stamp paper of Rs: 300 and duly notarized)

Name of work: RFP for selection of System Integrator (SI) for implementation of e-Challan system with advanced analytics for Ahmedabad City

1. I, the undersigned, do hereby certify that all the statements made in the required attachments are true and correct.
2. The undersigned also hereby certifies that neither our firm M/s ..... nor any of its constituent partners have abandoned any work in India nor any contract awarded to us for such works has been rescinded during last five years, from the date of this bid submission.
3. The undersigned hereby authorize(s) and request(s) any bank, person, authorities, government or public limited institutions, firm or corporation to furnish pertinent information deemed necessary and requested by the SCADL to verify our statements or our competence and general reputation.
4. The undersigned understands and agreed that further qualifying information may be requested, and agrees to furnish any such information at the request of the SCADL.
5. The SCADL and its authorized representative are hereby authorized to conduct any inquiries or investigations to verify the statements, documents, and information submitted in connection with this application and to seek clarification from our bankers and clients regarding any financial and technical aspects. This Affidavit will also serve as authorization to any individual or authorized representative of any institution referred to in the supporting information, to provide such information deemed necessary and requested by you to verify statements and information provided in the tender or with regard to the resources, experience and competence of the Applicant.
6. My/ our offer shall not be considered in case of fake/ forged document(s) found during verification at any stage or at any stage of contract. I/ We are agreed to whatever action (s) taken by competent authority of corporation in the aforesaid circumstances such as forfeiture of security deposit and debarring from participation in future tenders for the period/ years as deemed fit by the corporation and informing the same to all other state/ central level Government/ semi government organizations.

Signed by the Authorized Signatory of the firm

Title of the office:

Name of the firm:

Date:

## 12.12 Financial Bid format

### A: SITC and O&M of e-Challan application & related database

Sr. No.	Description	UoM	Quantity (No.)	Unit Price (INR, excluding tax)	Total Amount (INR, excluding tax)	Taxes and Duties (As applicable) in %
	(A)	(B)	(C)	(D)	(E=C*D)	(F)
1.	License cost for one license for Red Light Violation Detection / Stop Line Violation Detection	No.	457			
2.	License cost for one license for Wrong Side Driving detection	No.	457			
3.	License cost for one license for Not wearing seat belt detection	No.	457			
4.	License cost for one license for Not wearing helmet detection	No.	457			
5.	License cost for one license for Use of Mobile Phone while driving	No.	457			
6.	License cost for one license for ambient volume count of all types of vehicles with bifurcation of types of vehicle	No.	457			
7.	License cost for one license for Detection of more than two passenger on two-wheeler.	No.	457			
8.	License cost for one license for Detection of violation of entry prohibitory notification by heavy goods / passenger vehicles	No.	457			
9.	License cost for one license for Detection of lane violation blocking free left traffic by entering wrong lane	No.	457			
10.	License cost for one license for Detection of faded stop lines & zebra crossings	No.	457			
11.	License cost for one license for Identify unattended objects, baggage, vehicle in a given camera feed with help of analytics.	No.	304			

RFP for selection of System Integrator (SI) for implementation of e-Challan system with advanced analytics for Ahmedabad City

Sr. No.	Description	UoM	Quantity (No.)	Unit Price (INR, excluding tax)	Total Amount (INR, excluding tax)	Taxes and Duties (As applicable) in %
	(A)	(B)	(C)	(D)	(E=C*D)	(F)
12.	License cost for one license for Spitting Detection	No.	457			
13.	License cost for one license for Detection of cattle on road.	No.	304			
14.	License cost for one license for Detection of uncovered debris in truck & extended metallic elements outside of heavy vehicles.	No.	457			
15.	License cost for one license for Detection of garbage on road.	No.	100			
16.	License cost for one license for Detection of damaged infrastructure.	No.	100			
17.	License cost for one license for Parking rule violation detection.	No.	100			
18.	License cost for one license for Detection of potholes on the road.	No.	100			
19.	License cost for one license for Detection of Water Logging areas	No.	100			
20.	License cost for one license for Unauthorized vehicle in BRTS lane.	No.	249			
21.	License cost for one license for Automatic Number Plate Recognition (ANPR)	No.	1542			
22.	Deployment of Software developer	Man-Month	100			
	<b>Total cost (Ao)</b>					-----

**Note for Table – A above:**

1. License cost quoted in above table will include Successful SITC, O&M for 5 years of e-Challan application & related database and manpower deployment to comply all the terms & conditions of this RFP.
2. Amongst 21 line items of license cost in above table, the difference between highest & lowest quoted license cost should not be more than 50% of the highest license cost. For ex.: if highest license cost is Rs. 140 & lowest license cost is Rs. 50, then difference is Rs.

90 that is 64.28% of highest license cost (Rs. 140). This will not be allowed & bid will be rejected.

3. Quantities mentioned in above table is only for bid evaluation purpose. Payment to selected SI will be done only for the executed quantities as approved by SCADL.
4. Right of SCADL / Police / AMC to vary scope : Total quantity of licenses can be increased / decreased by +/- 25% during implementation phase. Payment to selected SI will be done only for the executed quantities as approved by SCADL. Execution quantities of license will be generally finalized before start of implementation.
5. Rates quoted in above financial bid table will be valid for entire contract duration.

**Note for financial bid:**

1. The taxes prevailing at the time of raising the invoice shall be applicable.
2. SCADL shall deduct appropriate tax as applicable at source from the payment against the delivery & services.

**12.13 PQ – 7 : Self Certification by Bidder and OEM**

(This shall be provided on Rs.300/- Non-Judicial stamp paper.)

Date: DD/MM/YYYY

Tender Ref No.

To,

The Chief Executive Officer  
Smart City Ahmedabad Development Limited  
Command and Control Centre,  
Opp. Divan Ballubhai School,  
Nr. Sanskar Kendra, Paldi,  
Ahmedabad: 380007.

With reference to above referred tender, I, undersigned <<Name of Signatory>>, in the capacity of <<Designation of Signatory>>, is authorized to give the undertaking on behalf of <<Name of the bidder/OEM>>.

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries; I certify that <<Name of Bidder/OEM>> is not from such a country or, if from such a country, has been registered with the Competent Authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. I hereby certify that <<Name of Bidder/OEM>> fulfills all requirements in this regard and eligible to be

considered. [Where applicable, evidence of valid registration by Competent Authority shall be attached.]

If given information is found to be false, this would be ground for immediate termination and further legal action in accordance with law.

Authorized Signatory:

Name:

Designation:

Name of the Bidder/OEM:

Address:

Company Seal:

#### 12.14 TQ – 4 : Curriculum Vitae of Project Team

Sr. No.	Details	Response
1	Proposed Position & Skill Set	
2	Name of Firm	
3	Name of Staff [Insert full name]	
4	Date of Birth	
5	Education [Indicate college/university and other specialized education of staff member, giving names of institutions, degrees obtained, and dates of obtainment]	
6	Membership of Professional Associations / Societies	
7	Summary of key Training and Certifications	
8	Countries of Work Experience: [List countries where staff has worked in the last ten years]	
9	Language Proficiency	(Read/Write/Speak) - (Excellent/Good/Fair)
10	Number of years of experience	
11	Employment Record [Starting with present position, list in reverse order every employment held by staff member since graduation, giving for each employment as per format provided]	From [Year]: _____ To [Year]: _____ Employer: Positions held:
12	Detailed Tasks Assigned [List all tasks to be performed under this assignment]	
13	Highlights of assignments handled and significant accomplishments. [Among the assignments in which the staff has been involved, indicate the following information for those assignments that best illustrate staff capability to handle the tasks listed under point 12.]	Name of assignment or project: Year: Location: Client: Main project features: Positions held: Activities performed:

### **12.15 Commercial Bid Cover Letter**

**<<To be printed on letter head of SI and signed by Authorized signatory>>**

Date: dd/mm/yyyy

To,

The Chief Executive Officer  
Smart City Ahmedabad Development Limited  
Command and Control Centre,  
Opp. Divan Ballubhai School,  
Nr. Sanskar Kendra, Paldi,  
Ahmedabad: 380007.

Subject: RFP for selection of System Integrator (SI) for implementation of e-Challan system with advanced analytics for Ahmedabad City

Reference: Tender No :< No> Dated<DD/MM/YYYY>

Dear Sir/ Madam,

We, the undersigned Implementation Agency, having read and examined in detail all the bidding documents in respect of “RFP for selection of System Integrator (SI) for implementation of e-Challan system with advanced analytics for Ahmedabad City” do hereby propose to provide services as specified in the Bid Document referred above.

#### **PRICE AND VALIDITY**

All the prices mentioned in our Tender are in accordance with the terms as specified in the Tender documents. All the prices and other terms and conditions of this Tender are valid for entire contract duration.

We hereby confirm that our Tender prices include all taxes. Taxes are quoted separately under relevant sections, as specified in the Bid Document formats.

We have studied the clause relating to Indian Income Tax and hereby declare that if any income tax, surcharge on Income Tax, Professional and any other corporate Tax in altered under the law, we shall pay the same.

#### **DEVIATIONS**

We declare that all the services shall be performed strictly in accordance with the Bid Documents and there are no deviations

Further we agree that additional conditions, if any, found in our bid documents, shall not be given effect to.

#### **QUALIFYING DATA**



We confirm having submitted the information as required by you in your Instruction to Implementation Agency. In case you require any other further information/documentary proof in this regard before evaluation of our Tender, we agree to furnish the same in time to your satisfaction.

#### BID PRICE

We declare that our Bid Price is for the entire scope of the work as specified in the Bid Document. The bid price at which the contract is awarded shall hold good for entire tenure of the contract. These prices are indicated in the subsequent sub-sections of this Section.

#### CONTRACT PERFORMANCE GUARANTEE BOND

We hereby declare that in case the contract is awarded to us, we shall submit the contract Performance Bank Guarantee in the form prescribed in the Bid Document.

We hereby declare that our Tender is made in good faith, without collusion or fraud and the information contained in the Tender is true and correct to the best of our knowledge and belief.

We understand that our Tender is binding on us and that you are not bound to accept a Tender you receive. We confirm that no technical deviations are attached here with this commercial offer.

Thanking you,

Yours faithfully,

(Signature of the Authorized Signatory)

Name

Designation

Seal.

Date:

Place:

Business Address:

## 12.16 Bank Guarantee format for EMD

### FORMAT OF THE UNCONDITIONAL AND IRREVOCABLE BANK GUARANTEE FOR EARNEST MONEY DEPOSIT

(To be submitted on Rs. 300/- non-judicial stamp paper)

In consideration of the ..... (*Insert name of the Bidder*) submitting the Bid *inter alia* for “RFP for selection of System Integrator (SI) for implementation of e-Challan system with advanced analytics for Ahmedabad City”, for meeting the terms and conditions in response to the RFP DOCUMENT----- dated ----- issued by **Smart City Ahmedabad Development Limited** (“SCADL”), and SCADL agreeing to consider the Bid of ..... [*Insert the name of the Bidder*] in accordance with the terms of the E-BID DOCUMENT, the ..... (Insert name and address of the bank issuing the Bid Bond, and address of the head office) (Here in after referred to as “Guarantor Bank”) hereby agrees unequivocally, irrevocably and unconditionally to pay to SCADL or its authorized representative at ..... [*Insert Name of the Place from the address of SCADL*] forthwith on demand in writing from SCADL or any representative authorized by it in this behalf an amount not exceeding Rupees .....on behalf of M/s. ....[*Insert name of the Bidder*].

This guarantee shall be valid and binding on the Guarantor Bank up to and including ..... (*Insert date of validity of Earnest Money Deposit in accordance with the terms of reference of the E-BID DOCUMENT*) and shall not be terminable by notice or any change in the constitution of the Guarantor Bank or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed with or without our knowledge or consent, by or between concerned parties.

Our liability under this Guarantee is restricted to Rupees ..... (Rs... ..).

SCADL or its authorized representative shall be entitled to invoke this Guarantee until ..... [*Insert Date, which is six months after the date in the preceding sentence*]. The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand from SCADL or its authorized representative, made in any format, raised at the above mentioned address of the Guarantor Bank, in order to make the said payment to SCADL or its authorized representative.

The Guarantor Bank shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection, disputes, or disparities raised by the Bidder or any other person. The Guarantor Bank shall not require SCADL or its authorized representative to

justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against SCADL or its authorized representative in respect of any payment made hereunder.

This BANK GUARANTEE shall be payable at Ahmedabad.

This BANK GUARANTEE shall be interpreted in accordance with the laws of India and the courts at ..... shall have exclusive jurisdiction.

The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

This BANK GUARANTEE shall not be affected in any manner by reason of merger, amalgamation, restructuring, liquidation, winding up, dissolution or any other change in the constitution of the Guarantor Bank.

This BANK GUARANTEE shall be a primary obligation of the Guarantor Bank and accordingly, SCADL or its authorized representative shall not be obliged before enforcing this BANK GUARANTEE to take any action in any court or arbitral proceedings against the Bidder, to make any claim against or any demand on the Bidder or to give any notice to the Bidder to enforce any security held by SCADL or its authorized representative or to exercise, levy or enforce any distress, diligence or other process against the Bidder.

The Guarantor Bank hereby agrees and acknowledges that SCADL shall have a right to invoke this Bank Guarantee either in part or in full, as it may deem fit.

Notwithstanding anything contained hereinabove, our liability under this Guarantee is restricted to Rupees ..... and it shall remain in force until ..... [*Date to be inserted on the basis of Terms of Reference of the E-BID DOCUMENT*], with an additional claim period of 6 (six) months thereafter. We are liable to pay the guaranteed amount or any part thereof under this BANK GUARANTEE only if SCADL or its authorized representative serves upon us a written claim or demand.

In witness whereof the Bank, through its authorized officer, has set its hand and stamp on this ..... day of ..... at .....

**Witness:**

Signature	Signature
Name	Name
Address	Address
Designation with Bank Stamp Signature	Designation with Bank Stamp Signature

Name and address

Attorney as per power of attorney No. ....

For:..... [Insert Name of the Bank]

**Banker's Stamp and Full Address:**

Dated this ..... day of ..... 2023.

Note: The Stamp Paper should be in the name of the Executing Bank

**12.17 Format for Performance Bank Guarantee**

<< To be printed on Rs. 300/- Stamp Paper >>

IN CONSIDERATION OF ..... Through .....

SCADL, Ahmedabad (Smart City Ahmedabad Development Limited) for “selection of System Integrator (SI) for implementation of e-Challan system with advanced analytics for Ahmedabad City” (hereinafter referred to as the “said work”) on the terms and conditions of the AGREEMENT dated the ..... day of ..... 2023 executed between SCADL on the one part and the Company (Name of the Company) on the other part (hereinafter referred to as “the said AGREEMENT”) and on the terms and conditions specified in the Contract, Form of Offer and Form of acceptance of Offer, true and complete copies of the offer submitted by the Company, the said Acceptance of Offer and the said AGREEMENT are annexed hereto.

The Company has agreed to furnish SCADL in Guarantee of the Nationalized Bank for the sum of Rs ..... (Agreement in Words and Figures) only which shall be the Security Deposit for the due performance of the terms covenants and conditions of the said AGREEMENT. We..... Bank Registered in India under Act and having one of our Local Head Office at ..... do hereby guarantee to SCADL in ..... Department.

- i. Due performance and observances by the Company of the terms covenants and conditions on the part of the Company contained in the said AGREEMENT, AND

- ii. Due and punctual payment by the Company to SCADL of all sum of money, losses, damages, costs, charges, penalties and expenses that may become due or payable to SCADL by or from the Company by reason of or in consequence of any breach, non-performance or default on the part of the Company of the terms covenants and conditions under or in respect of the said AGREEMENT.

AND FOR THE consideration aforesaid, we do hereby undertake to pay to SCADL on demand without delay demur the said sum of Rs. .... (Rupees ..... only) together with interest thereon at the rate prescribed under ..... from the date of demand till payment or such lesser sum, as may be demanded by SCADL from us as and by way of indemnity on account of any loss or damage caused to or suffered by SCADL by reason of any breach, non-performance or default by the Company of the terms, covenants and conditions contained in the said AGREEMENT or in the due and punctual payment of the moneys payable by the Company to SCADL thereunder and notwithstanding any dispute or disputes raised by the Company in any suit or proceeding filed before the Court relating thereto our liability hereunder being absolute and unequivocal and irrevocable AND WE do hereby agree that –

- a) The guarantee herein contained shall remain in full force and effect during the subsistence of the said AGREEMENT and that the same will continue to be enforceable till all the claims of SCADL are fully paid under or by virtue of the said AGREEMENT and its claims satisfied or discharged and till SCADL certifies that the terms and conditions of the said AGREEMENT have fully and properly carried out by the Company.
- b) We shall not be discharged or released from liability under this Guarantee by reason of
  - a. any change in the Constitution of the Bank or
  - b. any arrangement entered into between SCADL and the Company with or without our consent;
  - c. any forbearance or indulgence shown to the Company,
  - d. any variation in the terms, covenants or conditions contained in the said AGREEMENT;
  - e. any time given to the Company, OR
  - f. any other conditions or circumstances under which in a law a surety would be discharged.
- c) Our liability hereunder shall be joint and several with that of the Company as if we were the principal debtors in respect of the said sum of Rs..... (Rupees ..... Only).
- d) We shall not revoke this guarantee during its currency except with the previous consent of SCADL in ..... department in writing;
- e) Provided always that notwithstanding anything herein contained our liabilities under this guarantee shall be limited to the sum of Rs..... (Rupees..... only) and shall remain in force until SCADL certifies that the terms and conditions of the said AGREEMENT have been fully and properly carried out by the Company.

- f) Bank hereby agrees and covenants that if at any stage default is made in payment of any instalment or any portion thereof due to SCADL under the said AGREEMENT or if the Company fails to perform the said AGREEMENT or default shall be made in fulfilling any of the terms and conditions contained in the said AGREEMENT by the Company, the Bank shall pay to SCADL demand without any demur, such sum as may be demanded, not exceeding Rs..... (Rupees.....) and that the Bank will indemnify and keep SCADL indemnified against all the losses pursuant to the said AGREEMENT and default on the part of the Company. The decision of SCADL that the default has been committed by the Company shall be conclusive and final and shall be binding on the Bank/Guarantor. Similarly, the decision of SCADL as regards the Agreement due and payable by the Company shall be final and conclusive and binding on the Bank /Guarantor.
- g) SCADL shall have the fullest liberty and the Bank hereby gives its consent without any way affecting this guarantee and discharging the Bank/Guarantor from its liability hereunder, to vary or modify the said AGREEMENT or any terms thereof or grant any extension of time or any facility or indulgence to the Company and Guarantee shall not be released by reason of any time facility or indulgence being given to the Company or any forbearance act or omission on the part of SCADL or by any other matter or think whatsoever which under the law, relating to sureties so releasing the guarantor and the Guarantor hereby waives all suretyship and other rights which it might otherwise be entitled to enforce.
- h) That the absence of powers on the part of the Company or SCADL to enter into or execute the said AGREEMENT or any irregularity in the exercise of such power or invalidity of the said AGREEMENT for any reason whatsoever shall not affect the liability of the Guarantor/Bank and binding on the bank notwithstanding any abnormality or irregularity.
- i) The Guarantor agrees and declares that for enforcing this Guarantee by..... against it, the Courts at Ahmedabad only shall have exclusive jurisdiction and the Guarantor hereby submits to the same

1.....  
2.....

Being respectively the Director of the Company, who in token thereof, has hereto set his respective hands in the presence of –

1.....  
2.....