



ADDENDUM & CORRIGENDUM-4
REQUEST FOR PROPOSAL
for
**SELECTION OF IMPLEMENTATION AGENCY FOR
INTEGRATED TRAFFIC CONTROL SYSTEM (ITCS)
IN SURAT CITY**

Tender Number: SSCDL-Traffic-ITCS-RFP-01-2016

Last date for Price Bid Submission: 28. 02. 2017



Invited by

Surat Smart City Development limited

115, Smart City Cell, Surat Municipal Corporation,
Muglisara, Main Road, Surat - 395003, Gujarat.

Surat Smart City Development Limited

ADDENDUM AND CORRIGENDUM-4

RFP Notification No.: SSCDL-Traffic-ITCS-RFP-01-2016

The Bidders are requested to take note of the following changes made in the RFP documents, which are to be taken in to account while submitting the RFP. They shall be presumed to have done so and submitted the RFP accordingly.

- This Addendum and Corrigendum shall be the part of the RFP documents.
- All items specified in this Addendum and Corrigendum supersede relevant items to that effect as provided in the original RFP documents. All other specifications, terms and conditions of the original RFP document shall remain unchanged.
- Bidders shall read and consider following points, which shall be a part of the RFP documents.
- **The queries raised and given by bidders, but the clarifications are not made in this Addendum and Corrigendum shall be considered to remain unchanged as per the terms and conditions mentioned in the original RFP documents.**

Sr. No.	Section	Page No.	Tender Reference	Existing Clause	Amended/New Clause																								
1	3	10	Notice Inviting Bid	<table border="1"> <tr> <td>Last date for downloading RFP</td> <td>• Till 15/02/2017 up to 17:00 hrs.</td> </tr> <tr> <td>Online Price Bid End Date</td> <td>• Till 15/02/2017 up to 18:00 hrs.</td> </tr> <tr> <td>Technical Bid Submission (in Hard Copy) along with EMD & Bid fee</td> <td>• In sealed envelope strictly by RPAD/Postal Speed Post On or before 22/02/2017 up to 17:00 hrs. To the Chief Accounts, Surat Municipal Corporation, Muglisara, Surat – 395003, Gujarat by RPAD or Speed Post Only.</td> </tr> </table>	Last date for downloading RFP	• Till 15/02/2017 up to 17:00 hrs.	Online Price Bid End Date	• Till 15/02/2017 up to 18:00 hrs.	Technical Bid Submission (in Hard Copy) along with EMD & Bid fee	• In sealed envelope strictly by RPAD/Postal Speed Post On or before 22/02/2017 up to 17:00 hrs. To the Chief Accounts, Surat Municipal Corporation, Muglisara, Surat – 395003, Gujarat by RPAD or Speed Post Only.	<table border="1"> <tr> <td>Last date for downloading RFP</td> <td>• Till 28/02/2017 up to 17:00 hrs.</td> </tr> <tr> <td>Online Price Bid End Date</td> <td>• Till 28/02/2017 up to 18:00 hrs.</td> </tr> <tr> <td>Technical Bid Submission (in Hard Copy) along with EMD & Bid fee</td> <td>• In sealed envelope strictly by RPAD/Postal Speed Post On or before 07/03/2017 up to 17:00 hrs. To the Chief Accounts, Surat Municipal Corporation, Muglisara, Surat – 395003, Gujarat by RPAD or Speed Post Only.</td> </tr> </table>	Last date for downloading RFP	• Till 28/02/2017 up to 17:00 hrs.	Online Price Bid End Date	• Till 28/02/2017 up to 18:00 hrs.	Technical Bid Submission (in Hard Copy) along with EMD & Bid fee	• In sealed envelope strictly by RPAD/Postal Speed Post On or before 07/03/2017 up to 17:00 hrs. To the Chief Accounts, Surat Municipal Corporation, Muglisara, Surat – 395003, Gujarat by RPAD or Speed Post Only.												
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				date, time and venue	Address: Room No 88, Surat Municipal Corporation, Muglisara, Surat – 395003, Gujarat	date, time and venue	Address: Room No 88, Surat Municipal Corporation, Muglisara, Surat – 395003, Gujarat
3	7.10	26	Bid Fees & EMD			The format for BG is enclosed as Annexure I	
4			Taxes - Addendum & Corrigendum 3	<p>Reference : Addendum & Corrigendum 3</p> <p>The Prices mentioned in the Price Bid should include all applicable taxes. The L1 evaluation will be done exclusive of taxes. However, the bidder is expected to provide the tax components in commercials. The payment of taxes to the selected bidder will be done on actuals. In this regard, selected bidder is required to submit documents describing the total tax paid for Surat ITCS Project (for each component). The payment for tax component will be made in the subsequent billing cycle.</p> <p>Further, SSCDL shall be entitled to deduct tax at source or any other taxes/ cess as may be applicable.</p>		<p>The Prices mentioned in the Price Bid should include all applicable taxes & duties as applicable. The L1 evaluation will be done exclusive of taxes only. If any duties are applicable to the product the same will be considered for L1 evaluation. The bidder to quote the duties along with the rate of products proposed for L1 evaluation.</p> <p>However, the bidder is expected to provide the tax components in commercials. The payment of taxes to the selected bidder will be done on actuals. In this regard, selected bidder is required to submit documents describing the total tax paid for Surat ITCS Project (for each component). The payment for tax component will be made in the subsequent billing cycle.</p> <p>Further, SSCDL shall be entitled to deduct tax at source or any other taxes/ cess as may be applicable.</p>	
4			Evaluation of Technical Bid – Addendum & Corrigendum 3	<p>Reference : Addendum & Corrigendum 3</p> <ol style="list-style-type: none"> Bidder Competence- Public Address System Bidder Competence- Variable Messaging Boards People in organization 		<ol style="list-style-type: none"> The Clause stands removed from the Technical evaluation criteria of the RFP The weightage is revised from 2% to 4% Full time Employees defined as employees on the payroll of organization. 	
5			OEM Criteria - Addendum & Corrigendum 3	<p>Reference : Addendum & Corrigendum 3</p> <ol style="list-style-type: none"> ANPR Solution: Should have been operational for min. 50 ANPR cameras in City/outdoor CCTV Surveillance projects across India in last 3 years. Out of these projects at least one project should have min. 25 ANPR camera running on the offered ANPR solution 		<ol style="list-style-type: none"> ANPR Solution: Should have been operational for min. 50 ANPR cameras in City/outdoor CCTV Surveillance projects across globe in last 3 years. Out of these projects at least one project should have min. 25 ANPR camera running on the offered ANPR solution RLVD Solution :Minimum installation base of 10 projects across globe as on 31/03/2016 covering minimum 100 lanes (cumulative for 10 projects) in last 3 years 	



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				<p>2. RLVD Solution :Minimum installation base of 10 projects across globe as on 31/03/2016 covering minimum 100 junctions (cumulative for 10 projects) in last 3 years</p> <p>3. Speed Detection Solution: Minimum installation base of 10 projects across globe as on 31/03/2016 covering minimum 100 junctions (cumulative for 10 projects) in last 3 years</p>	<p>3. Speed Detection Solution: Minimum installation base of 10 projects across globe as on 31/03/2016 covering minimum 100 lanes (cumulative for 10 projects) in last 3 years</p>
6			Commercial Bid Format - Addendum & Corrigendum 3		<p>Note:</p> <ol style="list-style-type: none"> “One Time Services” table stands removed from the scope of work. “Provisioning of Electrical Power” stands removed from the scope of work. “Server Load Balancer” stand removed from the scope of work. However bidder shall proposed the system if required in their proposed solution to maintain the SLA IP Phones & IP PBX stands removed from the scope of work Quantity of Monitoring work station reduced to 5 nos The Operational cost will be payable for those items which are in working condition / operational <p>Please refer to online on https://smc.nprocure.com for revised commercial bid format. The revised tables are also provided in Annexure II</p>

Note: All the above changes to be read across the RFP, Addendum & Corrigendum, wherever applicable.

Important Points to be considered by the Bidder

- The validity of DD will be for 90 days only. SMC will en-cash the DD and pay back the bidder through cheque as per the RFP
- OEM experience will not be considered for Pre-Qualification Criteria and Technical Evaluation

GM (IT)
 Surat Smart City Development Ltd



Annexure I: Format for Bank Guarantee for Bid Security (Earnest Money Deposit)

This Deed of Guarantee is made on this _____ day of _____, 2017 at _____ by _____ a _____ Bank and having its Head Office/Registered Office at _____ and a Branch Office at _____, Surat (hereinafter referred to as “the Bank” or “the Guarantor”, which expression shall unless it be repugnant to the subject or context hereof be deemed to include its successors and assigns) in favour of Surat Smart City Development Ltd (SSCDL), having its Registered Office at _____ (hereinafter referred to as “Authority” which expression shall unless it be repugnant to the subject or context hereof be deemed to include its successors and assigns).

WHEREAS, the AUTHORITY undertook the process of competitive bidding in order to select the most desirable firm/company for operation and maintenance of Integrated Traffic Control System (ITCS) which purpose AUTHORITY issued a RFP document inviting Bids from the Bidders;

WHEREAS, [name of Bidder] (hereinafter called “the Bidder”) has submitted his Bid dated [date] for the execution of the Works (hereinafter called “the Bid”).

In the event of any breach or non-performance of the following terms and conditions contained in the Tender document:

- (1) If the Bidder withdraws or modifies his Bid during the period of Bid validity specified in the Tender; or
- (2) If the Bidder refuses to accept the correction of errors in his Bid; or
- (3) If the Bidder submits a conditional Bid which would affect unfairly the competitive provision of other Bidders who submitted substantially responsive Bids and/or is not accepted by AUTHORITY, or
- (4) if the Bidder, having been notified of the acceptance of his Bid by the AUTHORITY during the period of Bid validity and the bidder fails or refuses to execute the Agreement in accordance with the Tender documents;
- (5) If the bidder engages in fraudulent or corrupt practices

The Guarantor agrees absolutely, irrevocably and unconditionally guarantees and undertakes to pay to AUTHORITY a sum of Indian Rupees (Amount of EMD in INR) without any protest or demur and upon receipt of first written demand from AUTHORITY, without having to substantiate his demand, provided that in his demand AUTHORITY will note that the amount claimed by him is due to him owing to the occurrence of any one or more of the conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date _____ (180 days) days beyond the original validity period for the bid or as it may be extended by the bidder on a written request by AUTHORITY, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.



The jurisdiction in relation to this Guarantee shall be the Courts at Surat and Indian Law shall be applicable.

The claim in respect of this Bank Guarantee shall be admissible at any of our Surat Branches and such Bank Guarantee is encashable at Surat Branch.

IN WITNESS WHEREOF the Guarantor has executed this Guarantee on this _____ day of _____ and year first herein above written.

Signed and delivered by the

above named _____ Bank by

its Authorized Signatory as authorized by

Board Resolution passed on _____/

Power of Attorney dated [.....]

Authorized Signatory

Name :

Designation:

In the presence of:

1.

2.

Annexure II: Revised Price Bid Tables

Summary of Estimation

Capital Expense				
#	Item Description	Reference Schedule	Total Price (INR) Without Tax	Total Price (INR) With Tax
1	Area Traffic Control System (ATCS)	A		
2	Traffic Surveillance System	B		
3	Variable Message Signage Boards System	C		
4	Traffic Enforcement System	D		
5	Data Centre	E		
6	Traffic Command Centre	F		
7	Junction Improvements (Road Markings etc.)	G		
Total (INR) - Without Tax				
Total (In Words) - Without Tax				
Total (INR) - With Tax				
Total (In Words) - With Tax				

Note: **“One Time Services”** stands removed from the scope of work.



Operational Expense												
#	Item Description	Reference Schedule	Total 1st Year Rate without Tax (INR)	Total 2nd Year Rate without Tax (INR)	Total 3rd Year Rate without Tax (INR)	Total 4th Year Rate without Tax (INR)	Total 5th Year Rate without Tax (INR)	Total 1st Year Rate with Tax (INR)	Total 2nd Year Rate with Tax (INR)	Total 3rd Year Rate with Tax (INR)	Total 4th Year Rate with Tax (INR)	Total 5th Year Rate with Tax (INR)
9	Manpower	H										
10	Network Connectivity	I										
11	Operations & Maintenance for Traffic Junctions	J1										
12	Operations & Maintenance for Other IT / Non-IT Infrastructure	J2										
13	Capacity Building	K										
Total (INR) - Without Tax - Year wise												
Total for 5 years (INR) - Without Tax												
Total for 5 years (In Words)- Without Tax												
Total (INR) - With Tax - Year wise												
Total for 5 years (INR) - WithTax												
Total for 5 years (In Words)- With Tax												



Schedule A - Adaptive Traffic Control System

Schedule A: Area Traffic Control System (ATCS)							
#	Item Description	Unit of Measurement	Units (Z)	Unit Rate (Y) (Without Tax) (INR)	Total Rate (Without Tax) (X=Y*Z) (INR)	Applicable Taxes (W) (INR)	Total Rate (V=W+X) (INR)
1	SETC of ATCS Traffic Controller	Number	173				
2	SITC of Countdown timer	Number	1,500				
3	Vehicle Detector Camera	Number	624				
4	Galvanized Cantilever poles	Number	300				
5	Galvanized Standard Poles	Number	350				
6	SITC of 300 mm dia polycarbonate signal heads including aspect with LED based capsule, visor bracket frame works, Supports, flexible wires,Wires glands and pipes etc	Number					
6.1	Traffic Light Aspects - Red	Number	1,500				
6.2	Traffic Light Aspects - Green	Number	3,000				
6.3	Traffic Light Aspects - Amber	Number	1,500				
6.4	Pedestrian lamp heads – Stop & Walk Man	Number	600				
7	UPS with Batteries	Number	267				
8	Junction Box/Cabinets	Number	534				
9	SLTC of HDPE Pipe	Meter					
9.1	50 mm	Meter	3,000				
9.2	90 mm	Meter	3,000				
10	SLTC of DWC Pipe	Meter					
10.1	90 mm	Meter	10,000				
10.2	120 mm	Meter	15,000				
11	SLTC of Cable						
11.1	3 Core,2.5 Sqmm Unarmoured Cable	Meter	1,000				
11.2	3 Core, 2.5 Sqmm Armoured Cable	Meter	1,000				



Schedule A: Area Traffic Control System (ATCS)							
#	Item Description	Unit of Measurement	Units (Z)	Unit Rate (Y) (Without Tax) (INR)	Total Rate (Without Tax) (X=Y*Z) (INR)	Applicable Taxes (W) (INR)	Total Rate (V=W+X) (INR)
11.3	7 Core, 1.5 Sqmm Armoured Cable	Meter	20,000				
11.4	14 Core, 1.5 Sqmm Armoured Cable	Meter	12,000				
12	Removing of existing poles, pole Foundations, Aspects, Damaged Cables, Existing Controller & Shifting to the location as per guideline of SSCDL Authority.	Traffic Junctions	10				
13	Re-Installation of existing poles, pole Foundations, Aspects, Damaged Cables, Existing Controller & Shifting to the location as per guideline of SSCDL Authority.	Traffic Junctions	10				
14	Trenching	Meter					
14.1	Hard Murrum/Asphalt Road	Meter	25,000				
14.2	HDD	Meter	3,000				
Total - Schedule A (INR) - Without Tax							
Total - Schedule A (In Words) - Without Tax							
Total - Schedule A (INR) - With Tax							
Total - Schedule A (In Words) - With Tax							

Note:

1. SITC - Supply, Install, Testing & Commissioning
2. SLTC - Supply, lay, Testing & Commissioning
3. SETC - Supply, Erecting, Testing & Commissioning



Schedule B – Traffic Surveillance

Schedule B: Traffic Surveillance Systems							
#	Item Description	Unit of Measurement	Units (Z)	Unit Rate (Y) (Without Taxes) (INR)	Total Rate (Without Tax) (X=Y*Z) (INR)	Applicable Taxes (W) (INR)	Total Rate (V=W+X) (INR)
1	SITC of Traffic Surveillance PTZ Cameras System with Complete mounting accessories as required	Number	50				
2	SITC of ANPR System for capturing number plates at 2 arms and 4 lanes at each traffic junction with complete hardware and accessories as required	Traffic Junctions	17				
3	SITC of Emergency Call Box with complete hardware and accessories as required	Number	20				
4	SETC of Poles for Cameras and Equipment's	Number	55				
5	SITC of Edge level Switches for junction	Number	267				
6	SITC of Fish Eye Cameras System with complete mounting accessories as required	Number	5				
7	Networking Cost (Passive Components including Patch Panel, LIU, OFC, Cat6 Cable, Power Cable, Patch Cords, Pipes, Installation & Labour Charges, etc.)	Lump sum	55				
Total - Schedule B (INR)- Without Tax							
Total - Schedule B (In Words) - Without Tax							
Total - Schedule B (INR)- With Tax							
Total - Schedule B (In Words) - With Tax							

1. SITC - Supply, Install, Testing & Commissioning
2. SLTC - Supply, lay, Testing & Commissioning
3. SETC - Supply, Erecting, Testing & Commissioning



Schedule C – VMS

Schedule C: Mid Block Variable Message Sign Boards							
#	Item Description	Unit of Measurement	Units (Z)	Unit Rate (Y) (Without Taxes) (INR)	Total Rate (Without Tax) (X=Y*Z) (INR)	Applicable Taxes (W) (INR)	Total Rate (V=W+X) (INR)
1	Vehicle Detectors for decision support	Number	20				
2	VMS board including VMS controller size 3000mm*1500mm*200 mm (minimum) with complete hardware and accessories as required	Number	20				
3	Mounting structure for VMS including UPS	Number	20				
4	Speed Control Sign (SCS) Boards with complete hardware and accessories as required along with mounting structure.	Number	15				
Total - Schedule C (INR) - Without Tax							
Total - Schedule C (In Words)- Without Tax							
Total - Schedule C (INR) - With Tax							
Total - Schedule C (In Words)- With Tax							



Schedule D – Traffic Enforcement Cameras

Schedule D: Traffic Enforcement Cameras							
#	Item Description	Unit of Measurement	Units (Z)	Unit Rate (Y) (Without Taxes) (INR)	Total Rate (Without Tax) (X=Y*Z) (INR)	Applicable Taxes (W) (INR)	Total Rate (V=W+X) (INR)
1	SITC of Red Light Voilation Detection (RLVD) System for covering two arms & 4 lanes at each junction with complete hardware including ANPR cameras, Overview Cameras, Local Processing Unit, with cabling, accessories & mounting infrastructure as required	Traffic Junctions	25				
2	SITC of Cameras System for No Parking and Wrong Way Movement violations to cover only 1 arm and 1 lane at each junction with complete hardware and accessories as required	Traffic Junctions	31				
3	SITC of Speed Detection System for covering 3 lanes in one direction with complete subcomponents including ANPR camera, wide angle evidence camera, IR illuminator, non-intrusive speed sensor, with cabling & mounting infrastructure as required	Locations	15				
4	E-Challan Hand held devices with E-Challan s/w for Handheld	Number	125				
Total - Schedule D (INR) - Without Tax							



Schedule D: Traffic Enforcement Cameras							
#	Item Description	Unit of Measurement	Units (Z)	Unit Rate (Y) (Without Taxes) (INR)	Total Rate (Without Tax) (X=Y*Z) (INR)	Applicable Taxes (W) (INR)	Total Rate (V=W+X) (INR)
Total - Schedule D (In Words) - Without Tax							
Total - Schedule D (INR) - With Tax							
Total - Schedule D (In Words) - With Tax							

Note:

1. SITC - Supply, Install, Testing & Commissioning
2. SLTC - Supply, lay, Testing & Commissioning
3. SETC - Supply, Erecting, Testing & Commissioning

Schedule E – Data Centre

Schedule E: Data Center							
#	Item Description	Unit of Measurement	Units (Z)	Unit Rate (Y) (Without Taxes) (INR)	Total Rate (Without Tax) (X=Y*Z) (INR)	Applicable Taxes (W) (INR)	Total Rate (V=W+X) (INR)
1	<ul style="list-style-type: none"> • Variable Messaging Sign (VMS) Server. • Traffic Surveillance Cameras-Management Server • Traffic Surveillance Cameras-Recording Server • Analytics Server • ANPR Server • Traffic Analytics Server for Mid Block VMS System • RLVD Server • Speed Detection Server 	Number	To be specified by the bidder as per sizing				



Schedule E: Data Center							
#	Item Description	Unit of Measurement	Units (Z)	Unit Rate (Y) (Without Taxes) (INR)	Total Rate (Without Tax) (X=Y*Z) (INR)	Applicable Taxes (W) (INR)	Total Rate (V=W+X) (INR)
	<ul style="list-style-type: none"> • EMS Server • Mobile App Server • Database Server • ECB System Server • e-Challan Server 						
2	Failover Server for every ITCS module in N+1 mode	Number	To be specified by the bidder as per sizing				
3	Antivirus Server	Number	To be specified by the bidder as per sizing				
4	Video Management System	Number	86				
5	e-Map Integration	Number	1				
6	Viewing Software for e-Map	Number	1				
7	Enterprise Management System (including SLA Mngt, HelpDesk Mngt, Network Mngt, BMS) (Pl give the break-up if different s/w required)	Number	To be specified by the bidder as per sizing				
8	Anti-virus Software	Number	To be specified by the bidder as per sizing				
9	Customised GUI- Dashboard for Police Department (for various levels) with all required integrations as per SOW defined	Number	1				
10	Speed Detection System (Software + Licence)	Number	To be specified by the bidder as per sizing				
11	ANPR (Software + Licence)	Number	To be specified by the bidder as per sizing				

Schedule E: Data Center							
#	Item Description	Unit of Measurement	Units (Z)	Unit Rate (Y) (Without Taxes) (INR)	Total Rate (Without Tax) (X=Y*Z) (INR)	Applicable Taxes (W) (INR)	Total Rate (V=W+X) (INR)
12	RLVD(Software+Licence)	Number	To be specified by the bidder as per sizing				
13	Violation Analytics (Wrong Way & No Parking)	Number	To be specified by the bidder as per sizing				
14	Integration Cost for integration with existing E-Challan System	Number	1				
15	Variable Messaging Signage Software	Number	1				
16	ECB Software	Number	1				
17	Traffic Analytics Platform for Citizen Decision Support System for entire PAN City	Number	1				
18	Traffic Mobile App Software	Number	1				
19	Primary Storage (in TB)	TB	50				
20	Secondary Storage (in TB)	TB	285				
21	Backup Storage (in TB)	TB	30				
22	Core Router	Number	To be specified by the bidder as per sizing				
23	L3 Switches	Number	To be specified by the bidder as per sizing				
24	Firewall	Number	To be specified by the bidder as per sizing				
25	Intrusion Prevention System	Number	To be specified by the bidder as per sizing				
26	Racks (Caged)	Number	To be specified by the bidder as per sizing				



Schedule E: Data Center							
#	Item Description	Unit of Measurement	Units (Z)	Unit Rate (Y) (Without Taxes) (INR)	Total Rate (Without Tax) (X=Y*Z) (INR)	Applicable Taxes (W) (INR)	Total Rate (V=W+X) (INR)
27	UPS with Battery	Number	To be specified by the bidder as per sizing				
28	Networking Cost (Passive Components)	Number	To be specified by the bidder as per sizing				
Total - Schedule E (INR) - Without Tax							
Total - Schedule E (In Words) - Without Tax							
Total - Schedule E (INR) - With Tax							
Total - Schedule E (In Words) - With Tax							

Note: "Server Load Balancer" stand removed from the scope of work. However bidder shall proposed the system if required in their proposed solution to maintain the SLA

Schedule F – Traffic Command Centre

Schedule F: Traffic Command Centre							
#	Item Description	Unit of Measurement	Units (Z)	Unit Rate (Y) (Without Taxes) (INR)	Total Rate (Without Tax) (X=Y*Z) (INR)	Applicable Taxes (W) (INR)	Total Rate (V= W+X) (INR)
1	SITC of Monitoring Workstations with 3 Monitors for TCC	Number	5				
2	SITC of Monitoring Screens for Zone Office	Number	7				
3	Passive components including Cabling and other accessories as	Lump sum	1				



Schedule F: Traffic Command Centre							
#	Item Description	Unit of Measurement	Units (Z)	Unit Rate (Y) (Without Taxes) (INR)	Total Rate (Without Tax) (X=Y*Z) (INR)	Applicable Taxes (W) (INR)	Total Rate (V=W+X) (INR)
	required for TCC & Zone office						
4	Fire Safety System with alarms	Number	1				
Total - Schedule F (INR) - Without Tax							
Total - Schedule F (In Words) - Without Tax							
Total - Schedule F (INR) - With Tax							
Total - Schedule F (In Words) - With Tax							

Note:

1. SITC - Supply, Install, Testing & Commissioning
2. SLTC - Supply, lay, Testing & Commission
3. SETC - Supply, Erecting, Testing & Commissioning
4. IP Phones & IP PBX stands removed from the scope of work.
5. Quantity of Monitoring work station reduced to 5 nos.

Schedule G – Junction Improvements

Schedule G: Junction Improvements							
#	Item Description	Unit of Measurement	Units (Z)	Unit Rate (Y) (Without Taxes) (INR)	Total Rate (Without Tax) (X=Y*Z) (INR)	Applicable Taxes (W) (INR)	Total Rate (V=W+X) (INR)
1	Road Marking: Lane markings	Traffic Junctions	267				
2	Road Marking: Stop Line	Traffic Junctions	267				



Schedule G: Junction Improvements							
#	Item Description	Unit of Measurement	Units (Z)	Unit Rate (Y) (Without Taxes) (INR)	Total Rate (Without Tax) (X=Y*Z) (INR)	Applicable Taxes (W) (INR)	Total Rate (V=W+X) (INR)
3	Road Marking: Pedestrian (Zebra) Markings	Traffic Junctions	267				
4	Road Marking: Directional Markings	Traffic Junctions	267				
Total - Schedule G (INR) - Without Tax							
Total - Schedule G (In Words) - Without Tax							
Total - Schedule G (INR) - With Tax							
Total - Schedule G (In Words) - With Tax							

Schedule H – Manpower

Schedule H: Manpower												
#	Item Description	Units (Z)	Total 1st Year Rate (Without Tax) (INR)	Total 1st Year Rate (With Tax) (INR)	Total 2nd Year Rate (Without Tax) (INR)	Total 2nd Year Rate (With Tax) (INR)	Total 3rd Year Rate (Without Tax) (INR)	Total 3rd Year Rate (With Tax) (INR)	Total 4th Year Rate (Without Tax) (INR)	Total 4th Year Rate (With Tax) (INR)	Total 5th Year Rate (Without Tax) (INR)	Total 5th Year Rate (With Tax) (INR)
1	Project Director	1										
2	Project Manager	1										
3	Technical Expert-Traffic Command Center	1										



Schedule H: Manpower												
#	Item Description	Units (Z)	Total 1st Year Rate (Without Tax) (INR)	Total 1st Year Rate (With Tax) (INR)	Total 2nd Year Rate (Without Tax) (INR)	Total 2nd Year Rate (With Tax) (INR)	Total 3rd Year Rate (Without Tax) (INR)	Total 3rd Year Rate (With Tax) (INR)	Total 4th Year Rate (Without Tax) (INR)	Total 4th Year Rate (With Tax) (INR)	Total 5th Year Rate (Without Tax) (INR)	Total 5th Year Rate (With Tax) (INR)
4	Technical expert- Intelligent Transport Systems	1										
5	Technical Expert – Network & Security	1										
6	Technical Executive – Server, Storage, EMS & Application	1										
7	TCC Operators	15										
Total - Schedule I (INR) - Without Tax												
Total - Schedule I (In Words) - Without Tax												
Total - Schedule I (INR) - With Tax												
Total - Schedule I (In Words) - With Tax												

Schedule I- Network Connectivity



Schedule I: Network Connectivity													
#	Item Description	Units (Z)	Bandwidth Requirement (Mbps)	Total 1st Year Rate (Without Tax) (INR)	Total 1st Year Rate (With Tax) (INR)	Total 2nd Year Rate (Without Tax) (INR)	Total 2nd Year Rate (With Tax) (INR)	Total 3rd Year Rate (Without Tax) (INR)	Total 3rd Year Rate (With Tax) (INR)	Total 4th Year Rate (Without Tax) (INR)	Total 4th Year Rate (With Tax) (INR)	Total 5th Year Rate (Without Tax) (INR)	Total 5th Year Rate (With Tax) (INR)
1	Connectivity Cost ATCS Controllers to TCC	107	1					NA	NA	NA	NA	NA	NA
2	Connectivity Cost from Traffic Surveillance Cameras to TCC	55	5					NA	NA	NA	NA	NA	NA
3	Connectivity Cost from ANPR System to TCC	17	4					NA	NA	NA	NA	NA	NA
4	Connectivity Cost from RLVD System to TCC	25	4					NA	NA	NA	NA	NA	NA
5	Connectivity Cost from Speed Detection System to TCC	15	4					NA	NA	NA	NA	NA	NA
6	Connectivity Cost from No Parking & Wrong Way Movement violations Cameras to TCC	31	3					NA	NA	NA	NA	NA	NA



Schedule I: Network Connectivity													
#	Item Description	Units (Z)	Bandwidth Requirement (Mbps)	Total 1st Year Rate (Without Tax) (INR)	Total 1st Year Rate (With Tax) (INR)	Total 2nd Year Rate (Without Tax) (INR)	Total 2nd Year Rate (With Tax) (INR)	Total 3rd Year Rate (Without Tax) (INR)	Total 3rd Year Rate (With Tax) (INR)	Total 4th Year Rate (Without Tax) (INR)	Total 4th Year Rate (With Tax) (INR)	Total 5th Year Rate (Without Tax) (INR)	Total 5th Year Rate (With Tax) (INR)
7	Aggregation Bandwidth at IT MAC	1	1227					NA	NA	NA	NA	NA	NA
8	Connectivity cost from IT MAC to Police Command Center	1	1024					NA	NA	NA	NA	NA	NA
9	Connectivity cost from IT MAC to SMAC	1	1024					NA	NA	NA	NA	NA	NA
10	3G upgradable to 4G GSM Connectivity from E Challan Handheld device to Traffic Police Command Centre	125	1										
11	3G upgradable to 4G GSM Connectivity Cost from Variable Message Signboards & speed Control	35	1										



Schedule I: Network Connectivity													
#	Item Description	Units (Z)	Bandwidth Requirement (Mbps)	Total 1st Year Rate (Without Tax) (INR)	Total 1st Year Rate (With Tax) (INR)	Total 2nd Year Rate (Without Tax) (INR)	Total 2nd Year Rate (With Tax) (INR)	Total 3rd Year Rate (Without Tax) (INR)	Total 3rd Year Rate (With Tax) (INR)	Total 4th Year Rate (Without Tax) (INR)	Total 4th Year Rate (With Tax) (INR)	Total 5th Year Rate (Without Tax) (INR)	Total 5th Year Rate (With Tax) (INR)
	Signboards to TCC												
Total - Schedule J (INR) - Without Tax													
Total - Schedule J (In Words) - Without Tax													
Total - Schedule J (INR) - With Tax													
Total - Schedule J (In Words) - With Tax													

Schedule J1- O&M for Traffic Junction



Schedule J1: Operations, Management and Annual Maintenance Support for Traffic Junction													
#	Item Description	Unit of Measurement	Units (Z)	Total 1st Year Rate (Without Tax) (INR)	Total 1st Year Rate (With Tax) (INR)	Total 2nd Year Rate (Without Tax) (INR)	Total 2nd Year Rate (With Tax) (INR)	Total 3rd Year Rate (Without Tax) (INR)	Total 3rd Year Rate (With Tax) (INR)	Total 4th Year Rate (Without Tax) (INR)	Total 4th Year Rate (With Tax) (INR)	Total 5th Year Rate (Without Tax) (INR)	Total 5th Year Rate (With Tax) (INR)
1	Existing Non BRTS Junctions for poles , Civil Works etc	Traffic Junctions	27										
2	Existing BRTS Junctions for poles , Civil Works, Multiple source LED Aspects, Vehicle detector cameras etc	Traffic Junctions	94										
3	New Junctions for poles , Civil Works, Vehicle detector cameras etc	Traffic Junctions	146										
4	Upgradation of Controllers for existing Non BRTS Junctions including vehicle	Traffic Junctions	27										



Schedule J1: Operations, Management and Annual Maintenance Support for Traffic Junction													
#	Item Description	Unit of Measurement	Units (Z)	Total 1st Year Rate (Without Tax) (INR)	Total 1st Year Rate (With Tax) (INR)	Total 2nd Year Rate (Without Tax) (INR)	Total 2nd Year Rate (With Tax) (INR)	Total 3rd Year Rate (Without Tax) (INR)	Total 3rd Year Rate (With Tax) (INR)	Total 4th Year Rate (Without Tax) (INR)	Total 4th Year Rate (With Tax) (INR)	Total 5th Year Rate (Without Tax) (INR)	Total 5th Year Rate (With Tax) (INR)
	detector cameras												
5	Countdown timer	Number	1,500										
6	Pedestrian lamp heads - Stop & Walk Man	Number	600										
7	UPS with Batteries	Number	267										
8	Junction Box/Cabinets	Number	534										
Sub Total - Schedule K (INR) - Without Tax - Year wise													
Total for 5 Years- Schedule K (INR) - Without Tax													
Total for 5 Years- Schedule K (In Words)- Without Tax													
Sub Total - Schedule K (INR) - With Tax - Year wise													
Total for 5 Years- Schedule K (INR) - With Tax													
Total for 5 Years- Schedule K (In Words)- With Tax													



Schedule J2- O&M for other IT & Non IT Components

Schedule J2: Operations, Management and Annual Maintenance Support													
#	Item Description	Unit of Measurement	Units (Z)	Total 1st Year Rate (Without Tax) (INR)	Total 1st Year Rate (With Tax) (INR)	Total 2nd Year Rate (Without Tax) (INR)	Total 2nd Year Rate (With Tax) (INR)	Total 3rd Year Rate (Without Tax) (INR)	Total 3rd Year Rate (With Tax) (INR)	Total 4th Year Rate (Without Tax) (INR)	Total 4th Year Rate (With Tax) (INR)	Total 5th Year Rate (Without Tax) (INR)	Total 5th Year Rate (With Tax) (INR)
1	Traffic Surveillance PTZ Cameras System with complete mounting accessories as required	Number	50										
2	ANPR System for capturing number plates at 2 arms and 4 lanes at each traffic junction with complete hardware and accessories as required	Traffic Junctions	17										
3	Emergency Call Box with complete hardware and accessories as required	Number	20										
4	Poles for Cameras and Equipment's	Number	55										
5	Edge level Switches for Junction	Number	267										
6	Fish Eye Cameras System with complete mounting accessories as required	Number	5										

Schedule J2: Operations, Management and Annual Maintenance Support													
#	Item Description	Unit of Measurement	Units (Z)	Total 1st Year Rate (Without Tax) (INR)	Total 1st Year Rate (With Tax) (INR)	Total 2nd Year Rate (Without Tax) (INR)	Total 2nd Year Rate (With Tax) (INR)	Total 3rd Year Rate (Without Tax) (INR)	Total 3rd Year Rate (With Tax) (INR)	Total 4th Year Rate (Without Tax) (INR)	Total 4th Year Rate (With Tax) (INR)	Total 5th Year Rate (Without Tax) (INR)	Total 5th Year Rate (With Tax) (INR)
7	Networking Cost (Passive Components including Patch Panel, LIU, OFC, Cat6 Cable, Power Cable, Patch Cords, Pipes, Installation & Labour Charges, etc.)	Lump Sum	55										
8	Vehicle Detectors for decision support - for VMS	Number	20										
9	VMS board including VMS controller size 3000mm*1500mm*200 mm with complete hardware and accessories as required	Number	20										
10	Mounting structure for VMS Including UPS	Number	20										
11	Speed Control Sign (SCS) Boards with complete hardware and accessories as required along with Mounting Structure	Number	15										

Schedule J2: Operations, Management and Annual Maintenance Support													
#	Item Description	Unit of Measurement	Units (Z)	Total 1st Year Rate (Without Tax) (INR)	Total 1st Year Rate (With Tax) (INR)	Total 2nd Year Rate (Without Tax) (INR)	Total 2nd Year Rate (With Tax) (INR)	Total 3rd Year Rate (Without Tax) (INR)	Total 3rd Year Rate (With Tax) (INR)	Total 4th Year Rate (Without Tax) (INR)	Total 4th Year Rate (With Tax) (INR)	Total 5th Year Rate (Without Tax) (INR)	Total 5th Year Rate (With Tax) (INR)
12	Red Light Violation Detection (RLVD) System for covering two arms & 4 lanes at each junction with complete hardware including ANPR cameras, Overview Cameras, Local Processing Unit, with cabling, accessories & mounting infrastructure as required	Traffic Junctions	25										
13	Cameras System for No Parking and Wrong Way Movement violations to cover only 1 arm and 1 lane at each junction with complete hardware and accessories as required	Traffic Junctions	31										



Schedule J2: Operations, Management and Annual Maintenance Support													
#	Item Description	Unit of Measurement	Units (Z)	Total 1st Year Rate (Without Tax) (INR)	Total 1st Year Rate (With Tax) (INR)	Total 2nd Year Rate (Without Tax) (INR)	Total 2nd Year Rate (With Tax) (INR)	Total 3rd Year Rate (Without Tax) (INR)	Total 3rd Year Rate (With Tax) (INR)	Total 4th Year Rate (Without Tax) (INR)	Total 4th Year Rate (With Tax) (INR)	Total 5th Year Rate (Without Tax) (INR)	Total 5th Year Rate (With Tax) (INR)
14	Speed Detection System for covering 3 lanes in one direction with complete subcomponents including ANPR camera, wide angle evidence camera, IR illuminator, non intrusive speed sensor, with cabling & mounting infrastructure as required	Locations	15										
15	E-Challan Hand held devices	Number	125										
16	<ul style="list-style-type: none"> Variable Messaging Sign (VMS) Server Traffic Surveillance Cameras- Management Server Traffic Surveillance Cameras-Recording Server Analytics Server ANPR Server Traffic Analytics Server for Mid Block VMS System RLVD Server Speed Detection Server 	Number	To be specified by the bidder as per sizing mentioned in Schedule E										



Schedule J2: Operations, Management and Annual Maintenance Support													
#	Item Description	Unit of Measurement	Units (Z)	Total 1st Year Rate (Without Tax) (INR)	Total 1st Year Rate (With Tax) (INR)	Total 2nd Year Rate (Without Tax) (INR)	Total 2nd Year Rate (With Tax) (INR)	Total 3rd Year Rate (Without Tax) (INR)	Total 3rd Year Rate (With Tax) (INR)	Total 4th Year Rate (Without Tax) (INR)	Total 4th Year Rate (With Tax) (INR)	Total 5th Year Rate (Without Tax) (INR)	Total 5th Year Rate (With Tax) (INR)
	<ul style="list-style-type: none"> • EMS Server • Mobile App Server • Database Server • ECB System Server • e-Challan Server 												
17	Failover Server for recording server in for every ITCS module in N+1 mode	Number	To be specified by the bidder as per sizing mentioned in Schedule E										
18	Antivirus Server	Number	To be specified by the bidder as per sizing mentioned in Schedule E										
19	Enterprise Management System (including SLA Mngt, Help Desk Mngt, Network Mngt, BMS) (Pl give the break-up if different s/w required)	Number	To be specified by the bidder as per sizing mentioned in Schedule E										
20	Anti-virus Software	Number	To be specified by the bidder as per sizing mentioned in Schedule E										



Schedule J2: Operations, Management and Annual Maintenance Support													
#	Item Description	Unit of Measurement	Units (Z)	Total 1st Year Rate (Without Tax) (INR)	Total 1st Year Rate (With Tax) (INR)	Total 2nd Year Rate (Without Tax) (INR)	Total 2nd Year Rate (With Tax) (INR)	Total 3rd Year Rate (Without Tax) (INR)	Total 3rd Year Rate (With Tax) (INR)	Total 4th Year Rate (Without Tax) (INR)	Total 4th Year Rate (With Tax) (INR)	Total 5th Year Rate (Without Tax) (INR)	Total 5th Year Rate (With Tax) (INR)
21	Customized GUI-Dashboard for Police Department (for various levels) with all required integrations as per SOW defined	Number	1										
22	Speed Detection System (Software + Licence)	Number	To be specified by the bidder as per sizing mentioned in Schedule E										
23	ANPR (Software + Licence)	Number	To be specified by the bidder as per sizing mentioned in Schedule E										
24	RLVD(Software+Licence)	Number	To be specified by the bidder as per sizing mentioned in Schedule E										
25	Violation Analytics (Wrong Way & No Parking)	Number	To be specified by the bidder as per sizing mentioned in Schedule E										
26	Integration Cost for integration with existing E-Challan System	Number	1										
27	Variable Messaging Signage Software	Number	1										



Schedule J2: Operations, Management and Annual Maintenance Support													
#	Item Description	Unit of Measurement	Units (Z)	Total 1st Year Rate (Without Tax) (INR)	Total 1st Year Rate (With Tax) (INR)	Total 2nd Year Rate (Without Tax) (INR)	Total 2nd Year Rate (With Tax) (INR)	Total 3rd Year Rate (Without Tax) (INR)	Total 3rd Year Rate (With Tax) (INR)	Total 4th Year Rate (Without Tax) (INR)	Total 4th Year Rate (With Tax) (INR)	Total 5th Year Rate (Without Tax) (INR)	Total 5th Year Rate (With Tax) (INR)
28	ECB Software	Number	1										
29	Traffic Analytics Platform for Citizen Decision Support System for entire PAN City	Number	1										
30	Traffic Mobile App Software	Number	1										
31	Primary Storage (in TB)	TB	50										
32	Secondary Storage (in TB)	TB	285										
33	Backup Storage (in TB)	TB	30										
34	Core Router	Number	To be specified by the bidder as per sizing										
35	L3 Switches	Number	To be specified by the bidder as per sizing										
36	Firewall	Number	To be specified by the bidder as per sizing										
37	Intrusion Prevention System	Number	To be specified by the bidder as per sizing										



Schedule J2: Operations, Management and Annual Maintenance Support													
#	Item Description	Unit of Measurement	Units (Z)	Total 1st Year Rate (Without Tax) (INR)	Total 1st Year Rate (With Tax) (INR)	Total 2nd Year Rate (Without Tax) (INR)	Total 2nd Year Rate (With Tax) (INR)	Total 3rd Year Rate (Without Tax) (INR)	Total 3rd Year Rate (With Tax) (INR)	Total 4th Year Rate (Without Tax) (INR)	Total 4th Year Rate (With Tax) (INR)	Total 5th Year Rate (Without Tax) (INR)	Total 5th Year Rate (With Tax) (INR)
38	Racks (Caged)	Number	To be specified by the bidder as per sizing										
39	UPS with Battery	Number	To be specified by the bidder as per sizing										
40	Networking Cost (Passive Components)	Number	To be specified by the bidder as per sizing										
41	Monitoring Workstations with 3 Monitors	Number	5										
42	SITC Monitoring Screens for Zone Office	Number	7										
43	Electrical Cabling & Necessary Illumination Devices	Lump Sum	1										
44	Fire Safety System with alarms	Number	1										
45	Road Marking: Lane markings	Traffic Junctions	267										
46	Road Marking: Stop Line	Traffic Junctions	267										
47	Road Marking: Pedestrian (Zebra) Markings	Traffic Junctions	267										



Schedule J2: Operations, Management and Annual Maintenance Support													
#	Item Description	Unit of Measurement	Units (Z)	Total 1st Year Rate (Without Tax) (INR)	Total 1st Year Rate (With Tax) (INR)	Total 2nd Year Rate (Without Tax) (INR)	Total 2nd Year Rate (With Tax) (INR)	Total 3rd Year Rate (Without Tax) (INR)	Total 3rd Year Rate (With Tax) (INR)	Total 4th Year Rate (Without Tax) (INR)	Total 4th Year Rate (With Tax) (INR)	Total 5th Year Rate (Without Tax) (INR)	Total 5th Year Rate (With Tax) (INR)
48	Road Marking: Directional Markings	Traffic Junctions	267										
Sub Total - Schedule K (INR) - Without Tax - Year wise													
Total for 5 Years- Schedule K (INR) - Without Tax													
Total for 5 Years- Schedule K (In Words)- Without Tax													
Sub Total - Schedule K (INR) - With Tax - Year wise													
Total for 5 Years- Schedule K (INR) - With Tax													
Total for 5 Years- Schedule K (In Words)- With Tax													

Note: 1. “Server Load balancer” stands removed from the scope of work

2. IP Phones & IP PBX Stands removed from the scope of work.

3. Quantity of Monitoring workstation reduced to 5 nos.



Schedule K- Capacity Building

Schedule L: Capacity Building													
#	Item Description	Unit of Measurement	Units (Z)	Total 1st Year Rate (Without Tax) (INR)	Total 1st Year Rate (With Tax) (INR)	Total 2nd Year Rate (Without Tax) (INR)	Total 2nd Year Rate (With Tax) (INR)	Total 3rd Year Rate (Without Tax) (INR)	Total 3rd Year Rate (With Tax) (INR)	Total 4th Year Rate (Without Tax) (INR)	Total 4th Year Rate (With Tax) (INR)	Total 5th Year Rate (Without Tax) (INR)	Total 5th Year Rate (With Tax) (INR)
1	Training Costs (per batch) - Functional Training	Per Year / batch	6										
2	Training Costs (per batch) - Administrative Training	Per Year / batch	2										
3	Training Costs (per batch) - Senior Management Training	Per Year / batch	5										
Total - Schedule L(INR) - Without Tax													
Total - Schedule L(InWords) - Without Tax													
Total - Schedule L(INR) - With Tax													
Total - Schedule L(InWords) - With Tax													