



**ADDENDUM & CORRIGENDUM-3**  
**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: 15. 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-3**

**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.
- 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.

**Bidders shall read and consider following points, which shall be a part of the RFP documents.**

Sr. No.	Section	Page No.	Tender Reference	Existing Clause		Amended/New Clause	
1	3	10	Notice Inviting Bid	<b>Last date for downloading RFP</b>	<ul style="list-style-type: none"> <li>Till 25/01/2017 up to 17:00 hrs.</li> </ul>	<b>Last date for downloading RFP</b>	<ul style="list-style-type: none"> <li>Till 15/02/2017 up to 17:00 hrs.</li> </ul>
				<b>Online Price Bid End Date</b>	<ul style="list-style-type: none"> <li>Till 25/01/2017 up to 18:00 hrs.</li> </ul>	<b>Online Price Bid End Date</b>	<ul style="list-style-type: none"> <li>Till 15/02/2017 up to 18:00 hrs.</li> </ul>
				<b>Technical Bid Submission (in Hard Copy) along with EMD &amp; Bid fee</b>	<ul style="list-style-type: none"> <li>In sealed envelope strictly by RPAD/Postal Speed Post On or before 01/02/2017 up to 17:00 hrs. To the Chief Accounts, Surat Municipal Corporation, Muglisara, Surat – 395003, Gujarat by RPAD or Speed Post Only.</li> </ul>	<b>Technical Bid Submission (in Hard Copy) along with EMD &amp; Bid fee</b>	<ul style="list-style-type: none"> <li>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.</li> </ul>
2	4	11	Important Dates	<b>#</b> Information	<b>Details</b>	<b>#</b> Information	<b>Details</b>
				<b>8</b> Online Price Bid Submission Date	<b>25/01/2017 upto 18:00 hrs</b>	<b>8</b> Online Price Bid Submission Date	<b>15/02/2017 upto 18:00 hrs</b>
				<b>9</b> Technical Bid Submission (in Hard Copy) Filled-in Technical Bid along with Bid Fee, EMD and other documents	<b>In sealed envelope strictly by RPAD/Postal Speed Post On or before 01/02/2017 up to 17:00 hrs. To the Chief Accounts, Surat Municipal Corporation, Muglisara, Surat – 395003, Gujarat by RPAD or Speed Post Only.</b>	<b>9</b> Technical Bid Submission (in Hard Copy) Filled-in Technical Bid along with Bid Fee, EMD and other documents	<b>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.</b>
				<b>10</b> Opening of Technical Proposal –	<b>05/02/2017 at 16:00 pm</b>	<b>10</b> Opening of Technical Proposal –	<b>Tentative date - 01/03/2017 at 16:00 pm</b>

Sr. No.	Section	Page No.	Tender Reference	Existing Clause		Amended/New Clause			
				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	6	16	Pre-Qualification Criteria	#	<b>Eligibility Criteria</b>	<b>Document Proof</b>	#	<b>Eligibility Criteria</b>	<b>Document Proof</b>
				2	<p>The Prime Bidder should have average annual turnover of at least Rs. 100 crores from <b>IT or ITES</b> in last three financial years (ending 31 March 2016)</p> <p>For a 100% subsidiary, parent company average annual turnover would be considered for evaluation purposes.</p> <p><b>Note:</b> ITES is defined as outsourcing or offshoring of processes that can be enabled with information technology. Such outsourcing or offshoring which is technology enabled entails enterprise functions which are operations focused or customer centric.</p>	<p>1. Copy of audited financial statements</p> <p>2. Certificate from the Statutory auditor / CA clearly specifying the annual turnover for the specified years</p> <p>3. Support letter from parent or group company or group companies and its subsidiaries to be provided</p>	2	<p>The Prime Bidder should have average annual turnover of at least Rs. 100 crores <b>from ICT or ITES</b> in last three financial years (ending 31 March 2016)</p> <p>For a 100% subsidiary, parent company average annual turnover would be considered for evaluation purposes</p> <p><b>Note:</b> ITES is defined as outsourcing or offshoring of processes that can be enabled with information technology. Such outsourcing or offshoring which is technology enabled entails enterprise</p>	<p>1. Copy of audited financial statements</p> <p>2. Certificate from the Statutory auditor / CA clearly specifying the annual turnover for the specified years</p> <p>3. Support letter from parent or group company or group companies and its subsidiaries to be provided</p>
				3	Each Consortium Partner should have average annual turnover of at least Rs. 30 crores from <b>IT or ITES</b> in	1. Copy of audited financial statements			

Sr. No.	Section	Page No.	Tender Reference	Existing Clause	Amended/New Clause	
				<p>last three financial years (ending 31 March 2016)</p> <p>For a 100% subsidiary, parent company average annual turnover would be considered for evaluation purposes.</p> <p><b>Note:</b> ITES is defined as outsourcing or offshoring of processes that can be enabled with information technology. Such outsourcing or offshoring which is technology enabled entails enterprise functions which are operations focused or customer centric.</p>	<p>2. Certificate from the Statutory auditor / CA clearly specifying the annual turnover for the specified years</p> <p>3. Support letter from parent or group company or group companies and its subsidiaries to be provided</p>	<p>functions which are operations focused or customer centric or management of operations through technology enabled solutions.</p>
					<p>3 This clause stands removed.</p>	
				<p>4 The bidder (each of the consortium members, in case of consortium) should have a <b>positive net worth</b>, in each of the last three Financial year (ending 31 March 2016)</p>	<p>4 The bidder (each of the consortium members, in case of consortium) should have a <b>positive net worth</b>, in each of the last three Financial year (ending 31 March 2016)</p> <p>For a 100% subsidiary, parent company average annual turnover would be considered for evaluation purposes</p>	<p>Certificate from the Statutory auditor/ CA clearly specifying the net worth of the firm</p> <p>Support letter from parent or group company or group companies and its subsidiaries to be provided</p>
				<p>5 The bidder (or consortium) should have experience of implementing following scope in last 5 years</p> <p>1. Traffic Law enforcements system like Speed</p>	<p>5 The bidder (or consortium) should have experience of implementing following scope in last 5 years</p>	<p>Documentary evidence (Copy of completion / Ongoing client certificate and work order / Contract</p> <p><b>Note:</b></p>

Sr. No.	Section	Page No.	Tender Reference	Existing Clause	Amended/New Clause		
				<p>detection / Red Light Violation Detection / Wrong side / No Parking or CCTV surveillance system. The project should have at least 100 outdoor cameras or at least 50 cameras having sensors to detect speed violation / red light violation / wrong side violation/ no parking violation along with analytics software</p> <p>2. Command Centre with a video wall and at least 20 operators in main shift</p> <p><b>Note:</b></p> <p>1. Above mentioned scope of 1 &amp; 2 can be part of single project or may be separate projects.</p> <p>2. Parent Company experience would be considered for</p>	<p>1. The date of work order or contract should be at least 6 months before date of release of this RFP</p> <p>2. In case project is on-going then the Project must have achieved 80% of financial completion.</p>	<p>1. Traffic Law enforcements system like Speed detection / Red Light Violation Detection / Wrong side / No Parking or CCTV surveillance system. The project should have at least 50 outdoor cameras or at least 50 cameras having sensors to detect speed violation / red light violation / wrong side violation/ no parking violation along with analytics software</p> <p>2. Command Centre with a video wall and seating capacity of 10 operators</p> <p><b>Note:</b></p> <p>1. Above mentioned scope of 1 &amp; 2 can be part of</p>	<p><b>Note:</b></p> <p>1. The date of work order or contract should be at least 6 months before date of release of this RFP</p> <p>2. In case project is on-going then the Project must have achieved 80% of capex completion from financial and physical perspective</p>



Sr. No.	Section No.	Page No.	Tender Reference	Existing Clause	Amended/New Clause
				only 100% subsidiary or division or sub-division or branch or business unit.	single project or may be separate projects. 2. Parent Company experience would be considered for only 100% subsidiary or division or sub-division or branch or business unit.
6				The Bidder (or consortium) should have experience of implementing at least 50 Semi-Actuated or Fully Actuated Traffic Signals with centralized software system in last 5 years.	Documentary evidence (Copy of completion / Ongoing client certificate and work order / Contract <b>Note:</b> 1. The date of work order or contract should be at least 6 months before date of release of this RFP 2. In case project is on-going then the Project must have achieved 80% of financial completion.
6				Bidder(any consortium member) should have experience in executing ICT projects in last 5 years as per below :	Documentary evidence (Copy of completion / Ongoing client certificate and work order / Contract <b>Note:</b> 1. The date of work order or contract should be at least 6 months before date of release of this RFP 2. In case project is on-going then the Project must have achieved 80%
					The prime bidder (or any consortium member) should have experience of implementing at least 50 Vehicle Actuated (Semi-Actuated or Fully Actuated) Traffic Signals or controlling traffic signals with centralized software system in last 5 years. Parent Company experience would be considered for only 100% subsidiary or division or sub-division or branch or business unit

Sr. No.	Section	Page No.	Tender Reference	Existing Clause	Amended/New Clause		
				<ul style="list-style-type: none"> <li>At least one project of value Rs 80 Cr or</li> <li>Two Projects of value Rs 50 Cr each or</li> <li>Three Projects of values Rs 40 Cr each</li> </ul> <p><b>Note:</b> ICT stands for Information, Communications Technology projects and include IT systems integration project</p>	<p>1. The date of work order or contract should be at least 6 months before date of release of this RFP</p> <p>2. In case project is on-going then the Project must have achieved 80% of financial completion.</p>	<p>from financial and physical perspective</p>	
				<p>9 The Bidder should have an ISO 9001:2000 certification Or should be an SEI CMM Level 3 or above certified organization.</p> <p><b>Note:</b> In case of Consortium any member can satisfy this criteria</p>	<p>Copies of the valid certificates from authorized agencies</p>	<p>8</p> <p><b>Prime Bidder</b> should have experience in executing <b>ICT or ITES</b> projects in last 5 years as per below :</p> <ul style="list-style-type: none"> <li>At least one project of value Rs 60 Cr or</li> <li>Two Projects of value Rs 40 Cr each or</li> <li>Three Projects of values Rs 33 Cr each</li> </ul> <p><b>Parent Company</b> experience would be considered for only 100% subsidiary or division or sub-division or branch or business unit</p> <p><b>Note:</b> ICT stands for Information, Communications Technology projects and include IT systems integration project</p>	<p>Documentary evidence (Copy of completion / Ongoing client certificate and work order / Contract</p> <p><b>Note:</b></p> <p>1. The date of work order or contract should be at least 6 months before date of release of this RFP</p> <p>2. In case project is on-going then the Project must have achieved 80% from financial and physical perspective</p>



Sr. No.	Section No.	Page No.	Tender Reference	Existing Clause	Amended/New Clause
					<p>ITES is defined as outsourcing or offshoring of processes that can be enabled with information technology. Such outsourcing or offshoring which is technology enabled entails enterprise functions which are operations focused or customer centric or management of operations through technology enabled solutions.</p>
					<p>9 The Bidder should have an ISO 9001:2008 certification Or should be an SEI CMM Level 3 or above certified organization.</p> <p><b>Note:</b> In case of Consortium any member can satisfy this criteria</p> <p>Copies of the valid certificates from authorized agencies</p>
4	7.10	16	Bid Fee and Earnest Money	The bidder should also pay EMD of Rs. 1,60,00,000 (Rupees One Crores and sixty lakhs only) whereby 50% amount shall be in the form of Demand Draft and 50 % amount shall be in the form of Bank guarantee of any nationalized / scheduled banks	The bidder should also pay EMD of <b>Rs. 1,32,00,000 (Rupees One Crores and Thirty Two lakhs only)</b> whereby 50% amount shall be in the form of Demand Draft and 50 % amount shall be in the



Sr. No.	Section	Page No.	Tender Reference	Existing Clause	Amended/New Clause
			Deposit (EMD) and amount	with validity of 180 days beyond the original validity period for the bid.	form of Bank guarantee of any nationalized / scheduled banks with validity of 180 days beyond the original validity period for the bid. <b>Please read this change across the RFP, wherever applicable</b>
5	7.11	28	Sealing, Marking and Submission of Bids	The Bid must be sent strictly by Postal Speed Post or Registered Post AD only so as to reach on or before 01/02/2017 up to 17.00 hrs. <b>Bids received in any other manner or mode (like courier, in person, etc.) will not be considered. SSCDL won't be responsible for postal delays</b>	The Bid must be sent strictly by Postal Speed Post or Registered Post AD only so as to reach on or before <b>22/02/2017 up to 17.00 hrs.</b> <b>Bids received in any other manner or mode (like courier, in person, etc.) will not be considered. SSCDL won't be responsible for postal delays</b>
6	7.11	28-29	Sealing, Marking and Submission of Bids	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 <b>avour ona</b> signatory to sign/act/execute documents binding the bidder <b>avour onali</b> to the terms and conditions detailed in this proposal. In case of the Consortium the Prime bidder will submit this document	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 authorised <b>signatory</b> to sign/act/execute documents binding <b>the bidder to the terms and conditions detailed in this proposal.</b> In case of the Consortium the Prime bidder will submit this document
7	7.15	29	Taxes	The Prices mentioned in the Price Bid should include all applicable taxes. Any deviations due to change in the rate of taxes and duties or any introduction of new taxes and duties would be bear by the Bidder and SSCDL shall not pay any additional amount for such tax rate deviation. The SSCDL shall be entitled to deduct tax at source or any other taxes/ cess as may be applicable.	The Prices mentioned in the Price Bid should include all applicable taxes. <b>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.</b>  <b>Further, SSCDL shall be entitled to deduct tax at source or any other taxes/ cess as may be applicable.</b>
8	7.21	31	Evaluation of Technical Bid		The revised evaluation criteria based on change of Pre-Qualification criteria is mentioned in Annexure I of this document
9	7.24	40	Evaluation of Commercial	Additional clause on L1 evaluation	<b>The L1 evaluation will be done exclusive of taxes. However, the bidder is expected to provide the tax components in</b>



Sr. No.	Section	Page No.	Tender Reference	Existing Clause	Amended/New Clause																				
			Bids and Selection Method		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																				
10	7.25	40	Insurance	The bidder will be required to undertake the insurance for all traffic signals and its related accessories / equipment.	The bidder will be required to undertake the insurance for all components of the ITCS Project which has been procured under this RFP																				
11	8.4	48	SLA Matrix for Post Implementation SLAs		The revised SLA is mentioned in Annexure II of this document																				
12	9, 13.2	57, 161	Payment Schedule & Milestone	Request Order 2 - Tentative Lead Time - 4 Months Request Order 3 - Tentative Lead Time - 4 Months	Request Order 2 - Tentative Lead Time - <b>3 Months</b> Request Order 3 - Tentative Lead Time - <b>3 Months</b>  Please read this change across the RFP document																				
13	9.1	58	Milestones and Payment Schedules for Implementation Phase	<table border="1"> <thead> <tr> <th>Milestones</th> <th>Payment Milestones for the Implementation % Payment of Time Schedule Phase</th> <th>Payment Schedule</th> <th>Time Schedule</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>Completion of Scoping and feasibility study</td> <td>Value commensurate to the discovered quote for feasibility study as per schedule H</td> <td>T+ 1 Month</td> </tr> </tbody> </table>	Milestones	Payment Milestones for the Implementation % Payment of Time Schedule Phase	Payment Schedule	Time Schedule	M1	Completion of Scoping and feasibility study	Value commensurate to the discovered quote for feasibility study as per schedule H	T+ 1 Month	<table border="1"> <thead> <tr> <th>Milestones</th> <th>Payment Milestones for the Implementation % Payment of Time Schedule Phase</th> <th>Payment Schedule</th> <th>Time Schedule</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>Completion of Scoping and feasibility study</td> <td><b>0.5% of total Capex Cost of Feasibility report</b></td> <td>T+ 1 Month</td> </tr> <tr> <td>M2.1</td> <td>Request Order 1 – Mobilization Advance</td> <td><b>9.5% of Request Order 1 Value (Capex Cost)</b></td> <td>T + 1 Month</td> </tr> </tbody> </table>	Milestones	Payment Milestones for the Implementation % Payment of Time Schedule Phase	Payment Schedule	Time Schedule	M1	Completion of Scoping and feasibility study	<b>0.5% of total Capex Cost of Feasibility report</b>	T+ 1 Month	M2.1	Request Order 1 – Mobilization Advance	<b>9.5% of Request Order 1 Value (Capex Cost)</b>	T + 1 Month
Milestones	Payment Milestones for the Implementation % Payment of Time Schedule Phase	Payment Schedule	Time Schedule																						
M1	Completion of Scoping and feasibility study	Value commensurate to the discovered quote for feasibility study as per schedule H	T+ 1 Month																						
Milestones	Payment Milestones for the Implementation % Payment of Time Schedule Phase	Payment Schedule	Time Schedule																						
M1	Completion of Scoping and feasibility study	<b>0.5% of total Capex Cost of Feasibility report</b>	T+ 1 Month																						
M2.1	Request Order 1 – Mobilization Advance	<b>9.5% of Request Order 1 Value (Capex Cost)</b>	T + 1 Month																						



Sr. No.	Section	Page No.	Tender Reference	Existing Clause				Amended/New Clause			
				M2.1	Request Order 1 – Mobilization Advance	10% of Request Order 1 Value (Capex Cost) post issuance of work order	T + 1 Month			post issuance of work order	
				M3.1	Request Order 2 – Mobilization Advance	10% of Request Order 2 Value (Capex Cost) 2 post issuance of work order	T + 5 Month	M3.1	Request Order 2 – Mobilization Advance	9.5% of Request Order 2 Value (Capex Cost) 2 post issuance of work order	T + 5 Month
				M4.1	Request Order 3 – Mobilization Advance	10% of Request Order 3 Value (Capex Cost) post issuance of work order	T + 8 Month	M4.1	Request Order 3 – Mobilization Advance	9.5% of Request Order 3 Value (Capex Cost) post issuance of work order	T + 8 Month
14	12.1	115	General Instruction	SSCDL shall take into account all Taxes, Duties & Levies for the purpose of evaluation				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 will be made in the subsequent billing cycle			
15			Additional Clause					<b>Note:</b> Warranty Period is defined as 1 years post Go Live of all request orders. However, the bidder shall be responsible for operating & maintenance for period between the Go Live of Request order and initiation of Warranty period (1 year post Go Live of all Request order)			
16			Additional Clause					Please refer to Annexure III on OEM selection Criteria. This should be the part of Technical Bid and Checklist as mentioned in section 11.8 of RFP Volume 1. Bidders are required to submit all relevant supporting documents as part of Technical Proposal.			

Sr. No.	Section	Page No.	Tender Reference	Existing Clause	Amended/New Clause
17	12.2	117	Commercial Bid Format		<p>Please refer to online on <a href="https://smc.nprocure.com">https://smc.nprocure.com</a> for revised commercial bid format. The revised format is also provided in Annexure IV</p> <p>Note: The Operational cost will be payable for those items which are in working condition / operational</p>

**Note:** All the above changes to be read across the RFP and wherever applicable.

GM (IT)  
Surat Smart City Development Ltd

**Annexure I: Revised Technical Evaluation Criteria**

#	Technical Evaluation Criteria	Technical Evaluation parameter	Weightage										
<b>Bidder's Competence</b>													
1	Bidder Competence – Turnover	<ul style="list-style-type: none"> <li>The bidder (prime bidder in case of consortium) having average annual turnover of 100 Cr from <b>ICT or ITES</b> in last three financial years (ending 31 March 2016) will get 70 of total allocated marks.</li> <li>For every additional <b>Rs. 50 Cr</b> of average turnover the bidder (lead bidder in case of consortium) will get 10% marks, subject to a maximum of 100 marks.</li> </ul> <table border="1"> <thead> <tr> <th>Average Turnover (in crores)</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td><b>&gt;= INR 250 Cr.</b></td> <td>100</td> </tr> <tr> <td><b>&gt;= INR 200 Cr. And &lt; INR 250 Cr.</b></td> <td>90</td> </tr> <tr> <td><b>&gt;= INR 150 Cr. And &lt; INR 200 Cr.</b></td> <td>80</td> </tr> <tr> <td><b>&gt;= INR 100 Cr. And &lt; INR 150 Cr.</b></td> <td>70</td> </tr> </tbody> </table> <p><b>Maximum Marks: 100</b></p> <p>Parent Company experience would be considered for only 100% subsidiary or division or sub-division or branch or business unit</p>	Average Turnover (in crores)	Marks	<b>&gt;= INR 250 Cr.</b>	100	<b>&gt;= INR 200 Cr. And &lt; INR 250 Cr.</b>	90	<b>&gt;= INR 150 Cr. And &lt; INR 200 Cr.</b>	80	<b>&gt;= INR 100 Cr. And &lt; INR 150 Cr.</b>	70	4%
Average Turnover (in crores)	Marks												
<b>&gt;= INR 250 Cr.</b>	100												
<b>&gt;= INR 200 Cr. And &lt; INR 250 Cr.</b>	90												
<b>&gt;= INR 150 Cr. And &lt; INR 200 Cr.</b>	80												
<b>&gt;= INR 100 Cr. And &lt; INR 150 Cr.</b>	70												
2	Bidder Competence – Financial Ratios	<p>Relative performance of the bidder (prime bidder in case of consortium) vis-a-vis other bidders on following financial parameters :</p> <ul style="list-style-type: none"> <li>Asset Liability Ratio (Average for last 3 Fys: 2013-14, 2014-15, 2015 – 16) (1 Mark, Computed as <math>1 * X / X_{max}</math>, where X is the respective value for bidder and <math>X_{max}</math> the maximum value among all qualifying bidders.)</li> <li>Debt Equity Ratio (Average for last 3 Fys: 2013-14, 2014-15, 2015 – 16) (1 Mark, Computed as <math>1 * X_{min} / X</math>, where X is the respective value for bidder and <math>X_{min}</math> the minimum value among all qualifying bidders.)</li> </ul> <p>Note:</p> <ul style="list-style-type: none"> <li>Parent Company experience would be considered for only 100% subsidiary or division or sub-division or branch or business unit</li> <li>Bidder to submit the Statutory auditor / CA certificate stating following ratios for evaluation</li> </ul>	2%										
3	Bidder Competence – Executing Large ICT Projects	<ul style="list-style-type: none"> <li>The Prime bidder should have experience in executing <b>ICT or ITES</b> projects as per below terms:                             <ol style="list-style-type: none"> <li>At least one project of value Rs 60 Cr or</li> <li>Two Projects of value Rs 40 Cr each or</li> <li>Three Projects of values Rs 33 Cr each</li> </ol> </li> <li>If the bidder has fulfilled any of the above criteria, the bidder will get 70 marks – Refer as Min</li> <li>For every additional <b>ICT or ITES</b> project, the bidder will get 10 marks, subject to a maximum of 100 marks as per below criteria</li> </ul>	5%										

#	Technical Evaluation Criteria	Technical Evaluation parameter	Weightage										
		<table border="1"> <thead> <tr> <th>Number of Projects</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>Min + every additional project of value Rs 60 Cr</td> <td>20</td> </tr> <tr> <td>Min + every additional project of value Rs 40 Cr</td> <td>15</td> </tr> <tr> <td>Min + every additional project of value Rs 33 Cr</td> <td>10</td> </tr> <tr> <td>= Min</td> <td>70</td> </tr> </tbody> </table> <p><b>Maximum Marks: 100</b></p>	Number of Projects	Marks	Min + every additional project of value Rs 60 Cr	20	Min + every additional project of value Rs 40 Cr	15	Min + every additional project of value Rs 33 Cr	10	= Min	70	
Number of Projects	Marks												
Min + every additional project of value Rs 60 Cr	20												
Min + every additional project of value Rs 40 Cr	15												
Min + every additional project of value Rs 33 Cr	10												
= Min	70												
4	Bidder Competence – Surveillance Projects	<ul style="list-style-type: none"> <li>If bidder (Any member of consortium who has been allocated responsibility of the component as per responsibility matrix) has executed one project (surveillance project with at least 50 cameras points in outdoor/ public area) the bidder will get 70 marks.</li> <li>For every additional surveillance project (surveillance project with at least 50 cameras points in outdoor/ public area) the bidder will get 10 marks, subject to a maximum of 100 marks.</li> </ul> <table border="1"> <thead> <tr> <th>Number of Projects</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>= &gt;4</td> <td>100</td> </tr> <tr> <td>= 3</td> <td>90</td> </tr> <tr> <td>= 2</td> <td>80</td> </tr> <tr> <td>= 1</td> <td>70</td> </tr> </tbody> </table> <p><b>Maximum marks: 100</b>                      Parent Company experience would be considered for only 100% subsidiary or division or sub-division or branch or business unit</p>	Number of Projects	Marks	= >4	100	= 3	90	= 2	80	= 1	70	10%
Number of Projects	Marks												
= >4	100												
= 3	90												
= 2	80												
= 1	70												
5	Bidder Competence – Traffic Violation Detection projects	<ul style="list-style-type: none"> <li>If bidder (Any member of consortium who has been allocated responsibility of the component as per responsibility matrix) has executed one project (one traffic violation detection project having 50 cameras to detect speed violation / red light violation / wrong side violation/ no parking violation along with software, the bidder will get 70 marks.</li> <li>For every additional project (50 cameras to detect speed violation / red light violation / wrong side violation/ no parking violation) the bidder will get 10 marks, subject to a maximum of 100 marks.</li> </ul> <table border="1"> <thead> <tr> <th>Number of Projects</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>= &gt;4</td> <td>100</td> </tr> <tr> <td>= 3</td> <td>90</td> </tr> <tr> <td>= 2</td> <td>80</td> </tr> <tr> <td>= 1</td> <td>70</td> </tr> </tbody> </table> <p><b>Maximum marks: 100</b></p>	Number of Projects	Marks	= >4	100	= 3	90	= 2	80	= 1	70	10%
Number of Projects	Marks												
= >4	100												
= 3	90												
= 2	80												
= 1	70												

#	Technical Evaluation Criteria	Technical Evaluation parameter	Weightage										
		Parent Company experience would be considered for only 100% subsidiary or division or sub-division or branch or business unit											
6	Bidder Competence – Vehicle Actuated (Semi-Actuated or Fully Actuated )Traffic Signals	<ul style="list-style-type: none"> <li>If bidder (Any member of consortium who has been allocated responsibility of the component as per responsibility matrix) has executed one project (at least 50 Vehicle Actuated -Semi-Actuated or Fully Actuated Traffic Signals with centralized software system or controlling traffic signals) the bidder will get 70 marks.</li> <li>For every additional project (at least 50 Semi-Actuated or Fully Actuated Traffic Signals with centralized software system) the bidder will get 10 marks, subject to a maximum of 100 marks.</li> </ul> <table border="1"> <thead> <tr> <th>Number of Projects</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>= 4 or &gt;4</td> <td>100</td> </tr> <tr> <td>= 3</td> <td>90</td> </tr> <tr> <td>= 2</td> <td>80</td> </tr> <tr> <td>= 1</td> <td>70</td> </tr> </tbody> </table> <p><b>Maximum marks: 100</b>                      Parent Company experience would be considered for only 100% subsidiary or division or sub-division or branch or business unit</p>	Number of Projects	Marks	= 4 or >4	100	= 3	90	= 2	80	= 1	70	10%
Number of Projects	Marks												
= 4 or >4	100												
= 3	90												
= 2	80												
= 1	70												
7	Bidder Competence- Emergency/ panic button	<ul style="list-style-type: none"> <li>If bidder (Any member of consortium who has been allocated responsibility of the component as per responsibility matrix) has executed one project that entails emergency/ panic buttons (at least 10 aggregate emergency / panic buttons) the bidder will get 70 marks.</li> <li>For every additional project (at least 10 aggregate emergency / panic buttons) the bidder will get 10 marks, subject to a maximum of 100 marks.</li> </ul> <table border="1"> <thead> <tr> <th>Number of Projects</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>= &gt;4</td> <td>100</td> </tr> <tr> <td>= 3</td> <td>90</td> </tr> <tr> <td>= 2</td> <td>80</td> </tr> <tr> <td>= 1</td> <td>70</td> </tr> </tbody> </table> <p><b>Maximum marks: 100</b>                      Parent Company experience would be considered for only 100% subsidiary or division or sub-division or branch or business unit</p>	Number of Projects	Marks	= >4	100	= 3	90	= 2	80	= 1	70	2%
Number of Projects	Marks												
= >4	100												
= 3	90												
= 2	80												
= 1	70												
8	Bidder Competence- Public Address System	<ul style="list-style-type: none"> <li>If bidder (Any member of consortium who has been allocated responsibility of the component as per responsibility matrix) has executed one project (at least 10 aggregate public address system/ devices) the bidder will get 70 marks.</li> <li>For every additional project (at least 10 aggregate public address system/ devices) the bidder will get 10 marks, subject to a maximum of 100 marks.</li> </ul> <table border="1"> <thead> <tr> <th>Number of Projects</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table>	Number of Projects	Marks			2%						
Number of Projects	Marks												



#	Technical Evaluation Criteria	Technical Evaluation parameter	Weightage										
		<table border="1"> <tr> <td>= &gt;4</td> <td>100</td> </tr> <tr> <td>= 3</td> <td>90</td> </tr> <tr> <td>= 2</td> <td>80</td> </tr> <tr> <td>= 1</td> <td>70</td> </tr> </table> <p><b>Maximum marks: 100</b>                      Parent Company experience would be considered for only 100% subsidiary or division or sub-division or branch or business unit</p>	= >4	100	= 3	90	= 2	80	= 1	70			
= >4	100												
= 3	90												
= 2	80												
= 1	70												
9	Bidder Competence- Variable Messaging Boards	<ul style="list-style-type: none"> <li>If bidder (Any member of consortium who has been allocated responsibility of the component as per responsibility matrix) has executed one project (at least 20 Variable Messaging Boards) the bidder will get 70 marks.</li> <li>For every additional project (at least 20 Variable Messaging Boards) the bidder will get 10 marks, subject to a maximum of 100 marks.</li> </ul> <table border="1"> <thead> <tr> <th>Number of Projects</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>= &gt;4</td> <td>100</td> </tr> <tr> <td>= 3</td> <td>90</td> </tr> <tr> <td>= 2</td> <td>80</td> </tr> <tr> <td>= 1</td> <td>70</td> </tr> </tbody> </table> <p><b>Maximum marks: 100</b>                      Parent Company experience would be considered for only 100% subsidiary or division or sub-division or branch or business unit</p>	Number of Projects	Marks	= >4	100	= 3	90	= 2	80	= 1	70	2%
Number of Projects	Marks												
= >4	100												
= 3	90												
= 2	80												
= 1	70												
10	Bidder Competence- Command and Control Center installations	<ul style="list-style-type: none"> <li>If bidder (Any member of consortium who has been allocated responsibility of the component as per responsibility matrix) has executed 1 project that entails operationalization of command and control center (covering for surveillance/ traffic/ disaster management/ city operations functions) and seating capacity of 10 operators</li> <li>For every additional project (that entails operationalization of command and control centre (covering for surveillance/ traffic/ disaster management/ city operations functions) and seating capacity of 10 operators) the bidder will get 10 marks, subject to a maximum of 100 marks.</li> </ul> <table border="1"> <thead> <tr> <th>Number of Projects</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>= &gt;4</td> <td>100</td> </tr> <tr> <td>= 3</td> <td>90</td> </tr> <tr> <td>= 2</td> <td>80</td> </tr> <tr> <td>= 1</td> <td>70</td> </tr> </tbody> </table> <p><b>Maximum marks: 100</b>                      Parent Company experience would be considered for only 100% subsidiary or division or sub-division or branch or business unit</p>	Number of Projects	Marks	= >4	100	= 3	90	= 2	80	= 1	70	8%
Number of Projects	Marks												
= >4	100												
= 3	90												
= 2	80												
= 1	70												
<b>Approach &amp; Methodology</b>													

#	Technical Evaluation Criteria	Technical Evaluation parameter	Weightage										
11	Approach & Methodology	<p>Following parameters will be evaluated:</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>Completeness of project plan and ease of implementation (including training and change management plan)</td> <td>20</td> </tr> <tr> <td>Clarity and details shown in BOM</td> <td>10</td> </tr> <tr> <td>Strategy to maintain all the SLAs and handling change requests</td> <td>20</td> </tr> <tr> <td></td> <td>50</td> </tr> </tbody> </table> <p><b>Maximum marks: 100</b></p>	Parameter	Marks	Completeness of project plan and ease of implementation (including training and change management plan)	20	Clarity and details shown in BOM	10	Strategy to maintain all the SLAs and handling change requests	20		50	10%
Parameter	Marks												
Completeness of project plan and ease of implementation (including training and change management plan)	20												
Clarity and details shown in BOM	10												
Strategy to maintain all the SLAs and handling change requests	20												
	50												
<b>Proposed Team and people in organization</b>													
12	People in organization	<ul style="list-style-type: none"> <li>The prime bidder having at least 100 FTE (full time employees) on the payroll of organization working on ICT projects will get 70 marks</li> <li>For every additional 50FTEs the bidder will get additional 10 marks subject to maximum of 100 marks.</li> </ul> <table border="1"> <thead> <tr> <th>Number of FTE</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>&gt; 200 FTE</td> <td>100</td> </tr> <tr> <td>&gt; 150 FTE to =&lt;200 FTE</td> <td>90</td> </tr> <tr> <td>&gt; 100 FTE to =&lt;150 FTE</td> <td>80</td> </tr> <tr> <td>= 100 FTE</td> <td>70</td> </tr> </tbody> </table> <p><b>Maximum marks: 100</b></p>	Number of FTE	Marks	> 200 FTE	100	> 150 FTE to =<200 FTE	90	> 100 FTE to =<150 FTE	80	= 100 FTE	70	10%
Number of FTE	Marks												
> 200 FTE	100												
> 150 FTE to =<200 FTE	90												
> 100 FTE to =<150 FTE	80												
= 100 FTE	70												
13	People on project	<p>Each of the following profiles suggested by the bidder will be evaluated:</p> <table border="1"> <thead> <tr> <th>Profile</th> <th>Total Marks</th> </tr> </thead> <tbody> <tr> <td>Project Director with experience of at least 15 years and Relevant domain experience as below:                      Relevant domain Experience 10 Years – 5 Marks,                      Relevant domain Experience 10 Years and above– 10 Marks,                      One Relevant Project – 5 Marks,                      Two Relevant Projects – 10 Marks,                      Three Relevant Projects – 15 Marks</td> <td>25</td> </tr> <tr> <td>Project Manager with experience of at least 10 years and Relevant domain experience as below:                      Relevant domain Experience 5 Years – 15 Marks,                      Relevant domain Experience 10 Years and above– 10 Marks,                      One Relevant Project – 5 Marks,                      Two Relevant Projects – 10 Marks,</td> <td>25</td> </tr> </tbody> </table>	Profile	Total Marks	Project Director with experience of at least 15 years and Relevant domain experience as below: Relevant domain Experience 10 Years – 5 Marks, Relevant domain Experience 10 Years and above– 10 Marks, One Relevant Project – 5 Marks, Two Relevant Projects – 10 Marks, Three Relevant Projects – 15 Marks	25	Project Manager with experience of at least 10 years and Relevant domain experience as below: Relevant domain Experience 5 Years – 15 Marks, Relevant domain Experience 10 Years and above– 10 Marks, One Relevant Project – 5 Marks, Two Relevant Projects – 10 Marks,	25	10%				
Profile	Total Marks												
Project Director with experience of at least 15 years and Relevant domain experience as below: Relevant domain Experience 10 Years – 5 Marks, Relevant domain Experience 10 Years and above– 10 Marks, One Relevant Project – 5 Marks, Two Relevant Projects – 10 Marks, Three Relevant Projects – 15 Marks	25												
Project Manager with experience of at least 10 years and Relevant domain experience as below: Relevant domain Experience 5 Years – 15 Marks, Relevant domain Experience 10 Years and above– 10 Marks, One Relevant Project – 5 Marks, Two Relevant Projects – 10 Marks,	25												

#	Technical Evaluation Criteria	Technical Evaluation parameter	Weightage												
		Three Relevant Projects – 15 Marks Intelligent Transport Expert with overall experience of at least 10 years Relevant domain Experience 5Years – 5 Marks, Relevant domain Experience 10 Years – 10 Marks, One Relevant Project – 5 Marks, Two Relevant Projects – 10 Marks, Three Relevant Projects – 15 Marks	25												
		Traffic Command Center Operation with overall experience of at least 10 years Relevant domain Experience 5Years – 5 Marks, Relevant domain Experience 10 Years – 10 Marks, One Relevant Project – 5 Marks, Two Relevant Projects – 10 Marks, Three Relevant Projects – 15 Marks	25												
<b>Maximum marks: 100</b>															
<b>Presentation and Case Study Demonstration</b>															
14	Project Presentation	Following parameters will be evaluated during presentation: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Parameter</th> <th style="text-align: center;">Marks</th> </tr> </thead> <tbody> <tr> <td>System Integrators understanding of Surat’s requirements (functional and technical) and completeness of proposed solution</td> <td style="text-align: center;">20</td> </tr> <tr> <td>Presentation of Approach &amp; Methodology for Implementation</td> <td style="text-align: center;">20</td> </tr> <tr> <td>Clarifications given during Presentation</td> <td style="text-align: center;">20</td> </tr> <tr> <td>Similar Case Studies (Based on bidder experience)</td> <td style="text-align: center;">20</td> </tr> <tr> <td>Live Demonstration (Of other systems implemented by bidder)</td> <td style="text-align: center;">20</td> </tr> </tbody> </table>	Parameter	Marks	System Integrators understanding of Surat’s requirements (functional and technical) and completeness of proposed solution	20	Presentation of Approach & Methodology for Implementation	20	Clarifications given during Presentation	20	Similar Case Studies (Based on bidder experience)	20	Live Demonstration (Of other systems implemented by bidder)	20	<b>15%</b>
Parameter	Marks														
System Integrators understanding of Surat’s requirements (functional and technical) and completeness of proposed solution	20														
Presentation of Approach & Methodology for Implementation	20														
Clarifications given during Presentation	20														
Similar Case Studies (Based on bidder experience)	20														
Live Demonstration (Of other systems implemented by bidder)	20														
<b>Maximum marks: 100</b>															

**Note:**

1. For a 100% subsidiary, parent company credentials would be considered for evaluation purposes.
2. Documentary evidence (Copy of completion / Ongoing client certificate and work order / Contract) will be required for each project citation
3. In case project is on-going then the Project must have achieved 80% of capex completion from financial and physical perspective

4. For qualifying experience or credentials projects where prime bidder or consortium member has executed the project as a sub-contractor will not be considered for evaluation purposes

**Annexure II: Revised SLA Matrix for Post Implementation SLAs**

#	Performance Area	Baseline		Lower Performance		Breach	
		Metric	Points	Metric	Points	Metric	Points
<b>1. Field devices- Traffic Surveillance Cameras, ANPR system, RLVD system, Traffic Sensors, Aspects, Controller, Speed Detection system, Variable Message Signboards, ECB</b>							
1	Uptime per Traffic Surveillance Cameras (live feed available irrespective of network/power/etc. issues)	98%	5	>= 96% to <98%	2.5	<96%	0
2	Uptime of Traffic signal Aspects (irrespective of cabling/power etc. issues)	99%	5	>= 92% to <99%	2.5	<92%	0
3	Uptime of Traffic signal Controller (irrespective of Network/cabling/power etc. issues)	99%	5	>= 96% to <99%	2.5	<96%	0
4	Uptime of Traffic Sensors (Real time volume count availability irrespective of network/power/etc. issues)	98%	5	>= 96% to <98%	2.5	<96%	0
5	Uptime of Variable Message Signage (Irrespective of network/power/etc. issues)	98%	5	>= 96% to <98%	2.5	<96%	0
6	Uptime of Speed Detection system (Irrespective of network/power/etc. issues)	98%	5	>= 96% to <98%	2.5	<96%	0
7	Uptime of RLVD system (Irrespective of network/power/etc. issues)	98%	5	>= 96% to <98%	2.5	<96%	0



#	Performance Area	Baseline		Lower Performance		Breach	
		Metric	Points	Metric	Points	Metric	Points
8	Uptime per ANPR system (live feed available irrespective of network/power/etc. issues)	98%	5	>= 96% to <98%	2.5	<96%	0
<b>2. Application Performance (includes any user/system application related to the project)</b>							
1	Overall application(s) availability	99%	8	>= 96.5 % to <99%	4	< 96.5 %	0
2	Reports Generation Response Time (Alerts/MIS/Logs etc.)	Simple query - < 5secs Medium complexity query - <30 secs High Complexity query - < 1min	1	Simple complexity Query = 5.01 – 10 secs Medium complexity query = 30.01 – 60 secs High Complexity query = < 60.1 sec – 2 min	0.5	Simple complexity Query = > 10 secs Medium complexity query = > 60 secs High Complexity query = > 2 min	0
3	Maximum time for successful Traffic Controller settings modification	< 4 secs	1	4.01 – 6.0 secs	0.5	>6 secs	0
<b>3. Video Analytics Performance</b>							
1	ANPR for Standard Roman Number plates (3 wheelers & above)	80%	3	79.99% to 60%	1.5	< 60 %	0
2	ANPR for Non-Standard Roman Number plates (3 wheelers & above)	60%	3	59.99% to 40%	1.5	< 40 %	0



#	Performance Area	Baseline		Lower Performance		Breach	
		Metric	Points	Metric	Points	Metric	Points
3	ANPR for Standard Roman Number plates (2 wheelers)	80%	3	79.99% to 60%	1.5	< 60 %	0
4	ANPR for Non-Standard Roman Number plates (2 wheelers)	60%	3	59.99% to 40%	1.5	< 40%	0
5	Any other analytics (SLA to be defined in discussion with Successful Bidder)	80%	3	79.99% to 60%	1.5	< 60%	0
<b>4. End-User Equipment Uptime</b>							
1	Monitoring workstations at Command Centers	99%	3	>= 96 % to <99%	1.5	< 96 %	0
2	IP Phones	98%	2	>= 96 % to <98%	1	< 96 %	0
<b>5. Underlying IT Infrastructure Uptime/Availability at Data Centers</b>							
1	Production Servers Uptime	99.95%	10	>= 99.5 % to <99.94%	5	< 99.5%	0
2	Storage System Uptime	99.95%	10	>= 99.5 % to <99.94%	5	< 99.5%	0
<b>6. Security /Patch Services for IT Infrastructure</b>							
1	Firewall and any other security appliance Uptime	100%	5	97 % to 99.99%	2.5	< 97%	0
2	Security rules update within 2 hours of approved change management request	0 violations of service parameters	1	1 – 4 violations	0.5	> 4 violations	0
3	Anti-virus, Anti-spyware, Anti-spam updates within 24 hrs. of request	0 violations of service parameters	1	1 – 4 violations	0.5	> 4 violations	0
4	Critical Patches – within 48 hours of patch release.	0 violations of service parameters	1	1 – 4 violations	0.5	> 4 violations	0

#	Performance Area	Baseline		Lower Performance		Breach	
		Metric	Points	Metric	Points	Metric	Points
5	Non Critical Patches – within 15 days of patch release.	Up-to 1 violations of service parameters	1	2 – 5 violations	0.5	> 5 violations	0
6	Resolution of low level Issue (upgrade, shifting and preventive maintenance (of non-production items))	2 days	1	>=2 to 3 days	0.5	> 3 days	0
<b>Total Score</b>			<b>100</b>		<b>50</b>		<b>0</b>

**Annexure III: OEM Selection Criteria**

Component	Selection criteria for the OEM
<b>Surveillance/CCTV Components</b>	
<b>CCTV Cameras *</b>	<ul style="list-style-type: none"> <li>Minimum installation base of 50,000 IP based cameras across globe as on 31/03/2016 <b>and</b> Should have been operational for at least 2 City/outdoor CCTV Surveillance projects (globally) of minimum 1000 IP based city/outdoor cameras each in last 3 years</li> <li><b>OR</b></li> <li>From any of Top 10 OEM from Latest IHS World Report for Network Security Cameras, Report for Security Cameras &amp; Report for Intelligent Cameras</li> </ul>
<b>Video Management System Software</b>	<ul style="list-style-type: none"> <li>Minimum installation base of 50 projects across globe as on 31/03/2016 <b>and</b> Should have been operational for at least 2 City/outdoor CCTV Surveillance projects (globally, covering open public places) of minimum 1000 city/outdoor cameras each in last 3 years</li> <li><b>OR</b></li> <li>From any of Top 10 OEM from Latest IHS World Report for Video Management Software</li> </ul>
<b>ANPR Cameras and ANPR Solution</b>	<p>ANPR Camera</p> <ul style="list-style-type: none"> <li>Minimum installation base of 5,000 cameras across globe as on 31/03/2016 <b>and</b> Should have been operational for at least 2 City/outdoor CCTV Surveillance projects (globally) for supporting minimum 100 ANPR solutions in each in last 3 years</li> </ul> <p>ANPR Solution</p> <ul style="list-style-type: none"> <li>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.</li> </ul>
<b>Other Video Analytics</b>	<ul style="list-style-type: none"> <li>Minimum installation base of 5,000 cameras across globe and Should have been operational for at least 2 City/outdoor CCTV Surveillance projects (globally) of minimum 100 city/outdoor cameras each in last 3 years</li> <li><b>OR</b></li> <li>From any of Top 10 OEM from Latest IHS World Report for Analytics</li> </ul>
<b>RLVD Solution</b>	<ul style="list-style-type: none"> <li>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</li> </ul>
<b>Speed Detection Solution</b>	<ul style="list-style-type: none"> <li>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</li> </ul>



Component	Selection criteria for the OEM
<b>ONVIF Compliance</b>	All CCTV Cameras, Video Management System, Video Analytics Solution/Software and any video/image processing solution within overall project offering should be ONVIF Core Specification ‘2.X’ or ‘S’ compliant and provide support for ONVIF profiles such as Streaming, Storage, Recording, Playback etc.
<b>IT Infrastructure Components</b>	
<b>Edge Level (Field) Switches</b>	<ul style="list-style-type: none"> <li>Minimum installation base of 5,000 switches across globe as on 31/03/2016 and Should have been operational for at least 2 City/outdoor CCTV Surveillance projects (globally) for supporting minimum 1000 city/outdoor network devices (such as camera, controller etc.) each in last 3 years</li> </ul>
<b>Other Switches and Routers</b>	<ul style="list-style-type: none"> <li>OEMs who are amongst the top 5 for World-wide Market share in terms of Revenue as per- IDC / Similar organisation’s latest published quarterly report / presence in the latest Magic Quadrant by Gartner.</li> </ul>
<b>Servers,Racks, Desktop PC and Workstations</b>	<ul style="list-style-type: none"> <li>OEMs who are amongst the top 5 for world-wide market share in terms of revenue as per IDC / Similar organisation’s latest published quarterly report / presence in the latest Magic Quadrant by Gartner.</li> </ul>
<b>Storage Solution</b>	<ul style="list-style-type: none"> <li>OEMs who are amongst the top 5 for world-wide market share in terms of revenue as per IDC / Similar organisation’s latest published quarterly report / presence in the latest Magic Quadrant by Gartner.</li> </ul>

**Additional OEM / Brand Compliance requirement:**

- a) With regards to above table, OEMs will certify the installation base and the project experience. This certificate shall be issued through the **Global Headquarters** and attested by the Indian office. Authority shall verify the claim of OEMs by using publicly available reports like IDC, Gartner, IHS etc. In case there is any doubt of gross negligence or providing erroneous or incorrect information/declaration, decision of Tendering Authority shall be final and binding upon the Bidder and OEM. Also, in such cases, No representation/further correspondence with OEM/Bidder shall be entertained.
- b) For above mentioned components, authorised registered service/support centre should be **in operation or should be established in India within 30 days** of award of contract. The Bidder should submit an undertaking from the OEM (from Global headquarters/India office as applicable) to that effect.

**Annexure IV: Revised Price Bid**

**Summary of Estimation**

<b>Summary of Estimates for Surat ITCS Project</b>			
<b>Capital Expense</b>			
<b>#</b>	<b>Item Description</b>	<b>Reference Schedule</b>	<b>Total Price (INR) Without Tax</b>
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	
8	One Time Services	H	
<b>Total (INR) - Without Tax</b>			
<b>Total ( In Words) - Without Tax</b>			
<b>Total (INR) - With Tax</b>			
<b>Total (In Words) - With Tax</b>			

<b>Operational Expense</b>												
<b>#</b>	<b>Item Description</b>	<b>Reference Schedule</b>	<b>Total 1st Year Rate without Tax (INR)</b>	<b>Total 2nd Year Rate without Tax (INR)</b>	<b>Total 3rd Year Rate without Tax (INR)</b>	<b>Total 4th Year Rate without Tax (INR)</b>	<b>Total 5th Year Rate without Tax (INR)</b>	<b>Total 1st Year Rate with Tax (INR)</b>	<b>Total 2nd Year Rate with Tax (INR)</b>	<b>Total 3rd Year Rate with Tax (INR)</b>	<b>Total 4th Year Rate with Tax (INR)</b>	<b>Total 5th Year Rate with Tax (INR)</b>
9	Manpower	I										
10	Network Connectivity	J										

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)
11	Operations & Maintenance for Traffic Junctions	K1										
12	Operations & Maintenance for Other IT / Non-IT Infrastructure	K2										
13	Capacity Building	L										
<b>Total (INR) - Without Tax - Year wise</b>												
<b>Total for 5 years (INR) - Without Tax</b>												
<b>Total for 5 years (In Words)- Without Tax</b>												
<b>Total (INR) - With Tax - Year wise</b>												
<b>Total for 5 years (INR) - WithTax</b>												
<b>Total for 5 years (In Words)- With Tax</b>												

**Schedule A - Adaptive Traffic Control System**

<b>Schedule A: Area Traffic Control System (ATCS)</b>							
<b>#</b>	<b>Item Description</b>	<b>Unit of Measurement</b>	<b>Units (Z)</b>	<b>Unit Rate (Y) (Without Tax) (INR)</b>	<b>Total Rate (Without Tax) (X=Y*Z) (INR)</b>	<b>Applicable Taxes (W) (INR)</b>	<b>Total Rate (V=W+X) (INR)</b>
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				

<b>Schedule A: Area Traffic Control System (ATCS)</b>							
<b>#</b>	<b>Item Description</b>	<b>Unit of Measurement</b>	<b>Units (Z)</b>	<b>Unit Rate (Y) (Without Tax) (INR)</b>	<b>Total Rate (Without Tax) (X=Y*Z) (INR)</b>	<b>Applicable Taxes (W) (INR)</b>	<b>Total Rate (V=W+X) (INR)</b>
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 Pole including all accessories	Traffic Junctions	10				
14	Trenching	Meter					
14.1	Hard Murrum/Asphalt Road	Meter	25,000				
14.2	HDD	Meter	3,000				
<b>Total - Schedule A (INR) - Without Tax</b>							
<b>Total - Schedule A ( In Words) - Without Tax</b>							
<b>Total - Schedule A (INR) - With Tax</b>							
<b>Total - Schedule A ( In Words) - With Tax</b>							

Note:

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

**Schedule B – Traffic Surveillance**

<b>Schedule B: Traffic Surveillance Systems</b>							
#	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	Provisioning of Electrical Power	Traffic Junctions	80				
7	SITC of Fish Eye Cameras System with complete mounting accessories as required	Number	5				

<b>Schedule B: Traffic Surveillance Systems</b>							
#	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)
8	Networking Cost (Passive Components including Patch Panel, LIU, OFC, Cat6 Cable, Power Cable, Patch Cords, Pipes, Installation & Labour Charges, etc.)	Lump sum	55				
<b>Total - Schedule B ( INR)- Without Tax</b>							
<b>Total - Schedule B ( In Words) - Without Tax</b>							
<b>Total - Schedule B ( INR)- With Tax</b>							
<b>Total - Schedule B ( In Words) - With Tax</b>							

Note:

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

**Schedule C – VMS**

<b>Schedule C: Mid Block Variable Message Sign Boards</b>							
#	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				

<b>Schedule C: Mid Block Variable Message Sign Boards</b>							
<b>#</b>	<b>Item Description</b>	<b>Unit of Measurement</b>	<b>Units (Z)</b>	<b>Unit Rate (Y) (Without Taxes) (INR)</b>	<b>Total Rate (Without Tax) (X=Y*Z) (INR)</b>	<b>Applicable Taxes (W) (INR)</b>	<b>Total Rate (V=W+X) (INR)</b>
2	VMS board including VMS controller size 3000mm*1500mm*200 mm 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	Number	15				
5	Mounting structure for SCS	Number	15				
<b>Total - Schedule C ( INR) - Without Tax</b>							
<b>Total - Schedule C ( In Words)- Without Tax</b>							
<b>Total - Schedule C ( INR) - With Tax</b>							
<b>Total - Schedule C ( In Words)- With Tax</b>							



**Schedule D – Traffic Enforcement Cameras**

<b>Schedule D: Traffic Enforcement Cameras</b>							
#	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				
<b>Total - Schedule D (INR) - Without Tax</b>							



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)
<b>Total - Schedule D (In Words) - Without Tax</b>							
<b>Total - Schedule D (INR) - With Tax</b>							
<b>Total - Schedule D (In Words) - With Tax</b>							

Note:

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

**Schedule E – Data Center**

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	Variable Messaging Sign (VMS) Server	Number	To be specified by the bidder as per sizing				
2	Traffic Surveillance Cameras-Management Server	Number	To be specified by the bidder as per sizing				
3	Traffic Surveillance Cameras-Recording Server	Number	To be specified by the bidder as per sizing				
4	Analytics Server	Number	To be specified by the bidder as per sizing				
5	ANPR 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)
6	Traffic Analytics Server for Mid Block VMS System	Number	To be specified by the bidder as per sizing				
7	RLVD Server	Number	To be specified by the bidder as per sizing				
8	Speed Detection Server	Number	To be specified by the bidder as per sizing				
9	EMS Server	Number	To be specified by the bidder as per sizing				
10	Mobile App Server	Number	To be specified by the bidder as per sizing				
11	Database Server	Number	To be specified by the bidder as per sizing				
12	ECB System Server	Number	To be specified by the bidder as per sizing				
13	e-Challan Server	Number	To be specified by the bidder as per sizing				
14	Failover Server for every ITCS module in N+1 mode	Number	To be specified by the bidder as per sizing				
15	Antivirus Server	Number	To be specified by the bidder as per sizing				
16	Server load balancer	Number	To be specified by the bidder as per sizing				
17	Video Management System	Number	86				
18	e-Map Integration	Number	1				
19	Viewing Software for e-Map	Number	1				



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)
20	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				
21	Anti-virus Software	Number	To be specified by the bidder as per sizing				
22	Customised GUI- Dashboard for Police Department (for various levels) with all required integrations as per SOW defined	Number	1				
23	Speed Detection System (Software + Licence)	Number	To be specified by the bidder as per sizing				
24	ANPR (Software + Licence)	Number	To be specified by the bidder as per sizing				
25	RLVD(Software+Licence)	Number	To be specified by the bidder as per sizing				
26	Violation Analytics (Wrong Way & No Parking)	Number	To be specified by the bidder as per sizing				
27	Integration Cost for integration with existing E-Challan System	Number	1				
28	Variable Messaging Signage Software	Number	1				
29	ECB Software	Number	1				
30	Traffic Analytics Platform for Citizen Decision Support System for entire PAN City	Number	1				

<b>Schedule E: Data Center</b>							
<b>#</b>	<b>Item Description</b>	<b>Unit of Measurement</b>	<b>Units (Z)</b>	<b>Unit Rate (Y) (Without Taxes) (INR)</b>	<b>Total Rate (Without Tax) (X=Y*Z) (INR)</b>	<b>Applicable Taxes (W) (INR)</b>	<b>Total Rate (V=W+X) (INR)</b>
31	Traffic Mobile App Software	Number	1				
32	Primary Storage (in TB)	TB	50				
33	Secondary Storage (in TB)	TB	285				
34	Backup Storage (in TB)	TB	30				
35	Core Router	Number	To be specified by the bidder as per sizing				
36	L3 Switches	Number	To be specified by the bidder as per sizing				
37	Firewall	Number	To be specified by the bidder as per sizing				
48	Intrusion Prevention System	Number	To be specified by the bidder as per sizing				
39	Racks (Caged)	Number	To be specified by the bidder as per sizing				
40	UPS with Battery	Number	To be specified by the bidder as per sizing				
41	Networking Cost (Passive Components)	Number	To be specified by the bidder as per sizing				
<b>Total - Schedule E ( INR) - Without Tax</b>							
<b>Total - Schedule E ( In Words) - Without Tax</b>							
<b>Total - Schedule E ( INR) - With Tax</b>							
<b>Total - Schedule E ( In Words) - With Tax</b>							

**Schedule F – Traffic Command Center**

<b>Schedule F: Traffic Command Centre</b>							
<b>#</b>	<b>Item Description</b>	<b>Unit of Measure ment</b>	<b>Units (Z)</b>	<b>Unit Rate (Y) (Without Taxes) (INR)</b>	<b>Total Rate (Without Tax) (X=Y*Z) (INR)</b>	<b>Applicable Taxes (W) (INR)</b>	<b>Total Rate (V= W+X) (INR)</b>
1	SITC of Monitoring Workstations with 3 Monitors for TCC	Number	10				
2	SITC of IP Phones for TCC	Number	10				
3	SITC of Monitoring Screens for Zone Office	Number	7				
4	SITC of IP Phones for Zones	Number	7				
5	Passive components including Cabling and other accessories as required for TCC & Zone office	Lump sum	1				
6	Fire Safety System with alarms	Number	1				
<b>Total - Schedule F (INR) - Without Tax</b>							
<b>Total - Schedule F (In Words) - Without Tax</b>							
<b>Total - Schedule F (INR) - With Tax</b>							
<b>Total - Schedule F (In Words) - With Tax</b>							

Note:

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



**Schedule G – Junction Improvements**

<b>Schedule G: Junction Improvements</b>							
#	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				
3	Road Marking: Pedestrian (Zebra) Markings	Traffic Junctions	267				
4	Road Marking: Directional Markings	Traffic Junctions	267				
<b>Total - Schedule G (INR) - Without Tax</b>							
<b>Total - Schedule G ( In Words) - Without Tax</b>							
<b>Total - Schedule G (INR) - With Tax</b>							
<b>Total - Schedule G ( In Words) - With Tax</b>							

**Schedule H – Services**

<b>Schedule H: Services</b>						
#	Item Description	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	One time security audit (from third party)	1				
2	One time integration with ITMAC Center	1				



<b>Schedule H: Services</b>						
#	Item Description	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	One time integration with Connected Surat Project	1				
4	One time integration with SMAC center	1				
<b>Total - Schedule H ( INR) - Without Tax</b>						
<b>Total - Schedule H ( In Words)- Without Tax</b>						
<b>Total - Schedule H (INR) - With Tax</b>						
<b>Total - Schedule H ( In Words) - With Tax</b>						

**Schedule I – Manpower**

<b>Schedule I: Manpower</b>												
#	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 I: 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										
<b>Total - Schedule I (INR) - Without Tax</b>												
<b>Total - Schedule I ( In Words) - Without Tax</b>												
<b>Total - Schedule I (INR) - With Tax</b>												
<b>Total - Schedule I ( In Words) - With Tax</b>												



**Schedule J Network Connectivity**

Schedule J: 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

Schedule J: 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)
6	Connectivity Cost from No Parking & Wrong Way Movement violations Cameras to TCC	31	3					NA	NA	NA	NA	NA	NA
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										



<b>Schedule J: Network Connectivity</b>													
#	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)
11	3G upgradable to 4G GSM Connectivity Cost from Variable Message Signboards & speed Control Signboards to TCC	35	1										
<b>Total - Schedule J ( INR) - Without Tax</b>													
<b>Total - Schedule J ( In Words) - Without Tax</b>													
<b>Total - Schedule J ( INR) - With Tax</b>													
<b>Total - Schedule J ( In Words) - With Tax</b>													



**Schedule K1 O&M for Traffic Junction**

Schedule K1: 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	Traffic Junctions	27										



Schedule K1: 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)
	including vehicle 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										
<b>Sub Total - Schedule K ( INR) - Without Tax - Year wise</b>													
<b>Total for 5 Years- Schedule K ( INR) - Without Tax</b>													
<b>Total for 5 Years- Schedule K ( In Words)- Without Tax</b>													
<b>Sub Total - Schedule K ( INR) - With Tax - Year wise</b>													
<b>Total for 5 Years- Schedule K ( INR) - With Tax</b>													
<b>Total for 5 Years- Schedule K ( In Words)- With Tax</b>													

**Schedule K2 O&M for other IT & Non IT Components**

Schedule K2: 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 K2: 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	Number	15										
12	Mounting structure for SCS	Number	15										



Schedule K2: 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)
13	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										
14	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 K2: 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)
15	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										
16	E-Challan Hand held devices	Number	125										
17	Variable Messaging Sign (VMS) Server	Number	To be specified by the bidder as per sizing mentioned in Schedule E										
18	Traffic Surveillance Cameras-Management Server	Number	To be specified by the bidder as per sizing mentioned in Schedule E										
19	Traffic Surveillance Cameras-Recording Server	Number	To be specified by the bidder as per sizing mentioned in Schedule E										



Schedule K2: 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)
20	Analytics Server	Number	To be specified by the bidder as per sizing mentioned in Schedule E										
21	ANPR Server	Number	To be specified by the bidder as per sizing mentioned in Schedule E										
22	Traffic Analytics Server for Mid Block VMS System	Number	To be specified by the bidder as per sizing mentioned in Schedule E										
23	RLVD Server	Number	To be specified by the bidder as per sizing mentioned in Schedule E										
24	Speed Detection Server	Number	To be specified by the bidder as per sizing mentioned in Schedule E										
25	EMS Server	Number	To be specified by the bidder as per sizing mentioned in Schedule E										

Schedule K2: 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)
26	Mobile App Server	Number	To be specified by the bidder as per sizing mentioned in Schedule E										
27	Database Server	Number	To be specified by the bidder as per sizing mentioned in Schedule E										
28	ECB System Server	Number	To be specified by the bidder as per sizing mentioned in Schedule E										
29	e-Challan Server	Number	To be specified by the bidder as per sizing mentioned in Schedule E										
30	Failover Server for recording server in for every ITMS module in N+1 mode	Number	To be specified by the bidder as per sizing mentioned in Schedule E										
31	Antivirus Server	Number	To be specified by the bidder as per sizing mentioned in Schedule E										

Schedule K2: 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)
32	Server load balancer	Number	To be specified by the bidder as per sizing mentioned in Schedule E										
33	Video Management System	Number	86										
34	e-MapMap Integration	Number	1										
35	Viewing Software for e-Map	Number	1										
36	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										
37	Anti-virus Software	Number	To be specified by the bidder as per sizing mentioned in Schedule E										
38	Customized GUI-Dashboard for Police Department (for various levels) with all required integrations as per SOW defined	Number	1										

Schedule K2: 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)
39	Speed Detection System (Software + Licence)	Number	To be specified by the bidder as per sizing mentioned in Schedule E										
40	ANPR (Software + Licence)	Number	To be specified by the bidder as per sizing mentioned in Schedule E										
41	RLVD(Software+Licence)	Number	To be specified by the bidder as per sizing mentioned in Schedule E										
42	Violation Analytics (Wrong Way & No Parking)	Number	To be specified by the bidder as per sizing mentioned in Schedule E										
43	Integration Cost for integration with existing E-Challan System	Number	1										
44	Variable Messaging Signage Software	Number	1										
45	ECB Software	Number	1										
46	Traffic Analytics Platform for Citizen Decision Support	Number	1										



Schedule K2: 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)
	System for entire PAN City												
47	Traffic Mobile App Software	Number	1										
48	Primary Storage (in TB)	TB	50										
49	Secondary Storage (in TB)	TB	285										
50	Backup Storage (in TB)	TB	30										
51	Core Router	Number	To be specified by the bidder as per sizing										
52	L3 Switches	Number	To be specified by the bidder as per sizing										
53	Firewall	Number	To be specified by the bidder as per sizing										
54	Intrusion Prevention System	Number	To be specified by the bidder as per sizing										
55	Racks (Caged)	Number	To be specified by the bidder as per sizing										

Schedule K2: 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)
56	UPS with Battery	Number	To be specified by the bidder as per sizing										
57	Networking Cost (Passive Components)	Number	To be specified by the bidder as per sizing										
58	Monitoring Workstations with 3 Monitors	Number	10										
59	IP Phones	Number	10										
60	SITC Monitoring Screens for Zone Office	Number	7										
61	SITC IP Phones for Zones	Number	7										
62	Electrical Cabling & Necessary Illumination Devices	Lump Sum	1										
63	Fire Safety System with alarms	Number	1										
64	Road Marking: Lane markings	Traffic Junctions	267										
65	Road Marking: Stop Line	Traffic Junctions	267										
66	Road Marking: Pedestrian (Zebra) Markings	Traffic Junctions	267										



Schedule K2: 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)
67	Road Marking: Directional Markings	Traffic Junctions	267										
<b>Sub Total - Schedule K ( INR) - Without Tax - Year wise</b>													
<b>Total for 5 Years- Schedule K ( INR) - Without Tax</b>													
<b>Total for 5 Years- Schedule K ( In Words)- Without Tax</b>													
<b>Sub Total - Schedule K ( INR) - With Tax - Year wise</b>													
<b>Total for 5 Years- Schedule K ( INR) - With Tax</b>													
<b>Total for 5 Years- Schedule K ( In Words)- With Tax</b>													

### Schedule L 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										
<b>Total - Schedule L(INR) - Without Tax</b>													
<b>Total - Schedule L(InWords) - Without Tax</b>													
<b>Total - Schedule L(INR) - With Tax</b>													
<b>Total - Schedule L(InWords) - With Tax</b>													