



## Cochin Smart Mission Limited (CSML)

**Cochin Smart Mission Limited**  
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### CORRIGENDUM-9

TnD No.: CSML/ TND / 2018 /64 /096

Date: 15/10/2018

**Tender Reference Number:** CSML/ICT/RFP/001 Dated: 27/04/2018

**Tender ID:** 2018\_KMRL\_206409\_1

**Corrigendum-1:** TnD No.: CSML/ TND / 2018 /64 /037 Date: 10/05/2018

**Corrigendum-2:** TnD No.: CSML/ TND / 2018 /64 /044 Date: 16/05/2018

**Corrigendum-3:** TnD No.: CSML/ TND / 2018 /64 /056 Date: 06/06/2018

**Corrigendum-4:** TnD No.: CSML/ TND / 2018 /64 /065 Date: 07/07/2018

**Corrigendum-5:** TnD No.: CSML/ TND / 2018 /64 /073 Date: 02/08/2018

**Corrigendum-6:** TnD No.: CSML/ TND / 2018 /64 /082 Date: 30/08/2018

**Corrigendum-7:** TnD No.: CSML/ TND / 2018 /64 /087 Date: 19/09/2018

**Corrigendum-8:** TnD No.: CSML/ TND / 2018 /64 /094 Date: 09/10/2018

**Project Name:** RFP for Selection of Master System Integrator for Establishment of Integrated Command, Control and Communication Centre (IC4)  
in Kochi

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SL	RFP Page	Clause No./Reference	Earlier Clause(s)	Revised Clause(s)
1	24	1.1.2 Consortium IV (e)	Any of the Lead Bidders cannot be a Consortium Member with another bidder in a separate bid	4. e) Any of member of the consortium including lead bidder cannot be a consortium member with another bidder in a separate bid
2	25	1.1.3 Sub-Contracting	Sub-Contracting is not allowed for this RFP	<p>Sub-Letting of Work:</p> <p>Subletting of contracts shall not be generally permitted. However, the Authority may permit subletting of work on specific cases subject to the following:-</p> <p>(i) Sub-contracting should not be on back to back basis. Core activity will be with sole bidder or consortium.</p> <p>(ii) Core activities of MSI that cannot be outsourced. 2.6 (a to c) page 82</p> <p>a. Conduct of detailed assessment</p> <p>b. Design a comprehensive technical architecture and project plan.</p> <p>c. Design and development of comprehensive Internet of Infrastructure (IoI) for city command and control operations.</p> <p>(iii) No part of the Contract or any share of interest there shall in any manner or degree be transferred assigned sublet by the Contractor directly or indirectly to any firm or corporation whatsoever except as provided for</p>

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				<p>in the succeeding sub-clause, without the consent in writing of the Authority.</p> <p>(iv) Sub-Contractors for temporary Works etc.:- The Authority may give written consent to sub-contract for execution of any part of the works at the site, being entered into by the contractor provided each individual sub-contract is submitted to the Engineer-in-Charge before being entered into and is approved by him.</p> <p>(v) List of Sub-Contractors to be supplied: - At the commencement of every month the contractor shall furnish to the Engineer-in-Charge list of all sub-contractors or firms engaged by the Contractor and working at the site during the previous month with particulars of the general nature of the sub-contract or works.</p> <p>(vi) Contractor's Liability Not Limited By Sub-Contractors:- Notwithstanding any sub-letting with such approval as aforesaid and notwithstanding that the Engineer-in-Charge shall have received copies of any sub-contracts, the Contractor shall be and shall remain solely responsible for the quality and proper and expeditious execution of the works and the</p>

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				<p>performance of all the conditions of the contract in all respects as if such sub-letting or sub-contracting had not taken place and as if such work had been done directly by the Contractor.</p> <p>(vii) Authority may Terminate Sub-Contracts:- If any sub-contractor engaged upon the works at the site executes any work which in the opinion of the Engineer-in-Charge is not in accordance with the Contract documents, the Authority may by written notice to the Contractor request him to terminate such sub-contract and the Contractor upon the receipt of such notice shall terminate such sub contract and the latter shall forthwith leave the works, failing which the Authority shall have right to remove such sub-contractors from the Site.</p> <p>(viii) No Remedy For Action Taken Under This Clause:- No action taken by the Engineer in Charge under the clause shall relieve the contractor of any of his liabilities under the contract or give rise to any right to compensation, extension of time or otherwise failing which, the Authority shall have right to remove such sub-contractors from the Site.</p>

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3	25	1.1.4 Completeness of BID	The Bid should be complete in all respects. Failure to furnish all information required by the RFP document or submission of a proposal not substantially responsive to the RFP document in every respect will be at the Bidder's risk and may result in rejection of its Bid and forfeiture of the EMD.	The Bid should be complete in all respects. Failure to furnish all information required by the RFP document or submission of a proposal not substantially responsive to the RFP document in every respect will be at the Bidder's risk and may result in rejection of its Bid
4	28	1.1.9 CSML's Right To Terminate The Process	AUTHORITY may terminate the RFP process at any time and without assigning any reason.	(ix) AUTHORITY may terminate the RFP process at any time and without assigning any reason. In such a scenario, authority will return the EMD of all bidders at the earliest
5	30	1.2.5 BID PRICE	Commercial Bid / Financial proposal shall be as per the BOQ format detailed in Annexure 3. Bidders shall give the required details of all applicable taxes, duties, other levies and charges etc. in respect of direct transaction between CSML and the Bidder.	Commercial Bid / Financial proposal shall be as per the BOQ format detailed in Annexure 3. The Bid Price shall be inclusive of all taxes, levies etc. but excluding GST.
6	49	1.3.13 - PRE-QUALIFICATION ELIGIBILITY CRITERIA – PQ5	The Sole Bidder or the Lead Member of consortium should have a valid ISO 9001:2015 and ISO 27001:2013. Also, the Lead bidder (System Integrator) should be CMM level 5I/ISO 9001:2015 certified	The Sole Bidder or the Lead Member (System Integrator) of consortium should have a valid ISO 9001:2015, ISO 27001:2013 and CMM level 5-I certification.
7	49	1.3.13 PRE-QUALIFICATION	Note: 1. For International projects, original client certificate and other documents shall be duly	Note: 1. For International projects, copy of the original client certificate and copy of other documents shall be duly verified

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		ELIGIBILITY CRITERIA - Note:	verified by Indian embassy / High Commission. The same shall be submitted with the bid document.	by Indian embassy / High Commission. The same shall be submitted with the bid document.
8	49	1.3.13 PRE-QUALIFICATION ELIGIBILITY CRITERIA - Note:	3. Bidders are allowed to submit experience in terms of technical qualification of their holding Company and/or subsidiary company only. Letter to be submitted from parent Company that, there will be unconditional support to the subsidiary for technology / software etc. However, the parent/ subsidiary company of the Bidder should on its own meet the technical experience as stipulated in this RFP and should not rely for meeting the technical experience criteria on its sister subsidiary/ co-subsidiary company or through any other arrangement like Technical Collaboration agreement. ....	3. Bidders are allowed to submit experience in terms of financial turnover and for technical qualification of their holding Company and/or subsidiary company only. Letter to be submitted from parent Company of any member or lead member of JV that, there will be unconditional support to the subsidiary for fulfilment of financial needs based on requirement of project/technology / software etc. However, the parent/ subsidiary company of the Bidder should on its own meet the technical experience as stipulated in this RFP and should not rely for meeting the Eligibility criteria on its sister subsidiary/ co-subsidiary company or through any other arrangement like Technical Collaboration agreement.  <b>The format for the unconditional support from parent company to subsidiary is attached as Annexure 1 of Corrigendum 9</b>
9	53	RFP 1.3.14 TECHNICAL EVALUATION CRITERIA / FRAMEWORK (SUPPORTING	Note:  1. For Parameter 2,3,4 i) Bidders are allowed to submit experience in terms of technical qualification of their holding company and/or subsidiary company only. For the purpose of this clause,	Note:  1. For all above Parameter i) Bidders are allowed to submit experience in terms of financial turnover and for technical qualification of their holding Company and/or subsidiary company only. For the purpose of this clause,

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		DOCUMENTS TO BE ATTACHED)		
10	53	RFP 1.3.14 TECHNICAL EVALUATION CRITERIA / FRAMEWORK (SUPPORTING DOCUMENTS TO BE ATTACHED) A- Bidder's Organizational Strength and Experience (TQ -2)	Experience in Implementation and maintenance of largescale ICT based Utility Management System / Municipal Services in India or Abroad  Lead Bidder or its consortium members having experience in Implementation & maintenance of large Utility Management System / Municipal Services Project in last ten (10) financial years. Value of project should be at least of INR 20 crores.  3 citations=30 marks, 2 citation = 20 marks 1 citation=10 marks else 0 Marks	Experience in Implementation and maintenance of largescale ICT based Utility Management System / Municipal Services/ ICT Project in India or Abroad.  Lead Bidder or its consortium members having experience in Implementation & maintenance of large Utility Management System / Municipal Services / ICT Project in last ten (10) financial years. Value of project should be at least of INR 20 crores.  3 citations=30 marks, 2 citation = 20 marks 1 citation=10 marks Else = 0 Marks
11	67	1.3.14 TECHNICAL EVALUATION CRITERIA / FRAMEWORK D- Command Center Application OEM and CSP Credentials -2) Common Command Center	Proposed platform for City Control and Command Centre by bidder should have been deployed in India or abroad in last 5 years.  The platform should be deployed with at least any 3 unique and relevant use cases of the following like Smart Lighting, Parking, environment, Parking video nodes, Video Surveillance, Smart Card, Wi-Fi, Smart Energy, Smart Water, Smart Waste Management Environment Monitoring, Citizen Service Delivery,	Proposed platform for City Control and Command Centre by bidder should have been deployed in India or abroad in last 5 years.  The platform should be deployed with at least any 3 unique and relevant use cases of the following like Smart Lighting, Parking, environment, Parking video nodes, Video Surveillance, Smart Card, Wi-Fi, Smart Energy, Smart Water, Smart Waste Management Environment Monitoring, Citizen Service Delivery, Mobile work-force management, KPI Monitoring & Executive Dashboards and law enforcement.

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		Application Platform Experience and Capabilities	<p>Mobile work-force management, KPI Monitoring &amp; Executive Dashboards and law enforcement.</p> <ul style="list-style-type: none"> <li>• 5 citations (with 2 hosted on cloud) = 50 marks,</li> <li>• 4 citations = 40 marks,</li> <li>• 3 citations = 30 marks,</li> <li>• 2 citation = 20 marks</li> <li>• else 0 Marks</li> </ul> <p>Bidder to submit Case study + Copy of work order/Client certificate detailing Scope &amp; value from platform OEM along with name of cities and details of use cases being handled.</p> <p>In Case of ongoing project Case study + Copy of work order + Assignment Details as per the format to be provided.</p> <p>In Case of completed project Case study + Copy of work order + Assignment Details as per the format provided + Completion Certificate</p> <p>In case of NDA, Company Secretary / Chartered Accountant Signed Certificate of OEM providing details of Scope of work and Value &amp; phase of project.</p>	<ul style="list-style-type: none"> <li>• 5 citations (with 2 hosted on cloud) = 100 marks,</li> <li>• 4 citations = 80 marks,</li> <li>• 3 citations = 60 marks,</li> <li>• 2 citation = 40 marks</li> <li>• else 0 Marks</li> </ul> <p>Bidder to submit Case study + Copy of work order/Client certificate detailing Scope &amp; value from platform OEM along with name of cities and details of use cases being handled.</p> <p>In Case of ongoing project Case study + Copy of work order + Assignment Details as per the format to be provided.</p> <p>In Case of completed project Case study + Copy of work order + Assignment Details as per the format provided. + Completion Certificate</p> <p>In case of NDA, Company Secretary / Chartered Accountant Signed Certificate of OEM providing details of Scope of work and Value &amp; phase of project.</p> <p>It is expected that at the time of actual execution of this RFP, all the commitments given by bidder will be adhered.</p> <p>Case study to include the following details</p> <ul style="list-style-type: none"> <li>• Project Brief</li> <li>• Project scope</li> <li>• Client details</li> <li>• Customer size</li> </ul>



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			It is expected that at the time of actual execution of this RFP, all the commitments given by bidder will be adhered.	<ul style="list-style-type: none"> <li>• Location of the project</li> </ul> Proof of deployment
12	69	1.3.14 TECHNICAL EVALUATION CRITERIA / FRAMEWORK D-Command Center Application OEM and CSP Credentials - 3) Common Command Center Application Platform Experience and Capabilities	<p>Proposed platform for City Control and Command Centre by bidder should have been:</p> <ul style="list-style-type: none"> <li>• Platform is Deployed on cloud in India or abroad= 30 marks,</li> <li>• Platform is cloud ready = 15 marks</li> <li>• else 0 Marks</li> </ul> <p>In case, Platform is deployed on cloud then Bidder to get Case study + Copy of work order/Client certificate detailing Scope &amp; value from platform OEM along with name of cities and details of use cases.</p> <p>In case, if platform is cloud ready, then bidder is required to provide the undertaking from the OEM for the same, and has tested the same on Cloud. Along with this bidder will be required to submit testing reports of the platform on the cloud.</p>	<p>Proposed platform for City Control and Command Centre by bidder should have been:</p> <ul style="list-style-type: none"> <li>• Platform is Deployed on cloud in India or abroad= 50 marks,</li> <li>• Platform is cloud ready = 25 marks</li> <li>• else 0 Marks</li> </ul> <p>In case, Platform is deployed on cloud then Bidder to get Case study + Copy of work order/Client certificate detailing Scope &amp; value from platform OEM along with name of cities and details of use cases.</p> <p>In case, if platform is cloud ready, then bidder is required to provide the undertaking from the OEM for the same, and has tested the same on Cloud. Along with this bidder will be required to submit testing reports of the platform on the cloud.</p> <p>It is expected that at the time of actual execution of this RFP, all the commitments given by bidder will be adhered."</p>

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			It is expected that at the time of actual execution of this RFP, all the commitments given by bidder will be adhered."	
13	72	1.3.14 ELIGIBLE GOODS AND SERVICES	1.3.14 ELIGIBLE GOODS AND SERVICES	Please read the Clause no. 1.3.14 as <b>1.3.15</b>
14	72	1.3.14 ELIGIBLE GOODS AND SERVICES	The Bidder shall quote only one specific make and model from only one OEM, for each of the goods. Providing more than one option shall not be allowed. All goods quoted by the Bidder must be associated with item code and names and with printed literature describing configuration and functionality. Any deviation from the printed specifications should be clearly mentioned in the offer document by the Bidder.	<ul style="list-style-type: none"> <li>• The Bidder shall quote maximum up to three specific make and model for each of the goods. All goods quoted by the Bidder must be associated with item code and names and with printed literature describing configuration and functionality. Any deviation from the printed specifications should be clearly mentioned in the offer document by the Bidder.</li> <li>• The Bidder may change the make and model quoted with permission of the Employer in case any of the Brands become unavailable.</li> </ul>
15	82	Scope of work	2.5. Major Components of the IC4 Solution a. Cloud Service Provider (CSP)	2.5. Major Components of the IC4 Solution a. The solution should be hosted on Ministry of IT empaneled Tier III Cloud Service Provider (CSP). The list is given at Ministry of IT website below. <a href="http://meity.gov.in/content/gi-cloud-meghraj">http://meity.gov.in/content/gi-cloud-meghraj</a>

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16	86	2.8. Development of GIS based citizen Portal	3. The main objective of the assignment is to develop an open source web based GIS Applications for viewing, analyzing and utilizing the Geographical Information to be deployed in IC4 (Integrated command Control Communication Center) .The customize application to integrate with the respective existing modules of the stake holders (about 10 stake holders) with their ongoing application which facilitates for information Updation used in GIS.	3. The main objective of the assignment is to develop an open source web based GIS Applications for viewing, analyzing and utilizing the Geographical Information to be deployed in IC4 (Integrated command Control Communication Center) .The customize application to integrate with the respective existing modules of the stake holders (about 10 stake holders) with their ongoing application which facilitates for information Updation used in GIS.  The software has to be platform agnostic (Software and Hardware).
17	92	2.10. Mobile App with Multicity Mobility Card (NCMC),	2.10. Mobile App with Multicity Mobility Card (NCMC)	The Clause stands deleted.
18	97	2.14. Design and construction of the City Command Control Room – 1-b ii	ii. 2 Video walls of 6*3 (70 inches each)	• ii. 2 Video walls of 6* 3(Minimum 70 inches each) diagonal cube and controller. The bidder may provide higher sizes.
19	98	2.14. Design and construction of the City Command	• Standard Operating Procedures (SoPs) must adhere with the Governance structure of City	Standard Operating Procedures (SoPs) must adhere with the Governance structure of Kochi Municipal Corporation.

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		Control Room – 1-f	SPV and different Municipal Corporations of the 07 smart cities, as in case of any incident or disaster decision making ability lies with the Authority.	
20	104	3.1.1 GENERAL CONDITIONS  2. DEFINITION AND INTERPRETATION-xx)	<ul style="list-style-type: none"> <li>• “Effective Date” means the date on which this Contract is signed or Lol is issued by designated authority.</li> <li>• If this Contract is executed in parts, then the date on which the last of such Contracts is executed shall be construed to be the Effective Date.</li> </ul>	<p>“Effective Date” means the date on which the LOA is issued by designated authority.</p> <p>If this Contract is executed in parts, then the date on which the last of such Contracts is executed shall be construed to be the Effective Date.</p>
21	110	3.1.1 GENERAL CONDITIONS  9. TAXES AND DUTIES	In the event of exemption or reduction of Custom Duties, Excise Duties, Sales Tax or any other Cess /Levy being granted by the Government in respect of the works, the benefit of the same shall be passed on to the Purchaser / Employer	The Clause stands deleted.
22	119	3.1.5 SETTLEMENT OF DISPUTES	In the case of dispute arising, upon or in relation to, or in connection with the contract between AUTHORITY and the Successful Bidder, which has not been settled amicably, any party can refer the dispute for Arbitration under (Indian) Arbitration and Conciliation Act, 1996. Such disputes shall be referred to an Arbitral Tribunal consisting of three arbitrators, one each to be appointed by the	In the case of dispute arising, upon or in relation to, or in connection with the contract between AUTHORITY and the Successful Bidder, which has not been settled amicably, any party can refer the dispute for Arbitration under (Indian) Arbitration and Conciliation Act, 1996. Such disputes shall be referred to sole arbitrator appointed by the Managing Director, CSML. The Arbitration and Conciliation Act, 1996 and any statutory modification or re-enactment thereof, shall apply to

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			AUTHORITY and the Successful Bidder, the third arbitrator shall be chosen by the two arbitrators so appointed by the parties and shall act as Presiding Arbitrator. In case of failure of the two arbitrators, appointed by the parties to reach a consensus regarding the appointment of the third arbitrator within a period of 30 days from the date of appointment of the two arbitrators, the Presiding arbitrator shall be appointed by the Managing Director, CSML. The Arbitration and Conciliation Act, 1996 and any statutory modification or re-enactment thereof, shall apply to these arbitration proceedings.	these arbitration proceedings.
23	121	3.1.8 PAYMENT UPON TERMINATION	<p>Upon termination of this Contract pursuant to GCC Clauses 3.8, the AUTHORITY shall make the following payments to the Successful Bidder:</p> <p>a) If the Contract is terminated pursuant to GCC Clause 3.8 (10), remuneration for Services satisfactorily performed prior to the effective date of termination.</p> <ul style="list-style-type: none"> <li>• b) If the agreement is terminated pursuant of GCC Clause 3.8 (1) to (3), (4), (5), (6), (7), (8) and (9). The Successful Bidder shall not be entitled to receive any agreed payments upon termination of the contract. However, the</li> </ul>	<p>Upon termination of this Contract pursuant to GCC Clauses 3.1.7, the AUTHORITY shall make the following payments to the Successful Bidder:</p> <p>a) If the Contract is terminated pursuant to GCC Clause 3.1.7 (10), remuneration for Services satisfactorily performed prior to the effective date of termination.</p> <ul style="list-style-type: none"> <li>• b) If the agreement is terminated pursuant of GCC Clause 3.1.7 (1) to (3), (4), (5), (6), (7), (8) and (9). The Successful Bidder shall not be entitled to receive any agreed payments upon termination of the contract. However, the AUTHORITY may consider making a</li> </ul>

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			AUTHORITY may consider making a payment for the part satisfactorily performed on the basis of Quantum Merit as assessed by it, if such part is of economic utility to the AUTHORITY. Applicable under such circumstances, upon termination, the AUTHORITY may also impose liquidated damages. The Successful Bidder will be required to pay any such liquidated damages to AUTHORITY within 30 days of termination date.	payment for the part satisfactorily performed on the basis of Quantum Merit as assessed by it, if such part is of economic utility to the AUTHORITY. Applicable under such circumstances, upon termination, the AUTHORITY may also impose liquidated damages. The Successful Bidder will be required to pay any such liquidated damages to AUTHORITY within 30 days of termination date.																								
24	123	3.2 PROJECT IMPLEMENTATION SCHEDULE, DELIVERABLES –A	T = Date of Signing of Agreement	T = Date of Issue of Letter of Acceptance (LOA)																								
25	124	3.2 PROJECT IMPLEMENTATION SCHEDULE, DELIVERABLES -C	<table border="1"> <thead> <tr> <th>S No</th> <th>Deliverables</th> <th>Timelines</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SOPs and Use-Cases for operations in Command Center Application</td> <td>T1+30 Days</td> </tr> <tr> <td>2</td> <td>Testing of Application Integration</td> <td>T1+75 Days</td> </tr> <tr> <td>3</td> <td>Completion of Integration with UAT sign off</td> <td>T1+90 Days</td> </tr> </tbody> </table>	S No	Deliverables	Timelines	1	SOPs and Use-Cases for operations in Command Center Application	T1+30 Days	2	Testing of Application Integration	T1+75 Days	3	Completion of Integration with UAT sign off	T1+90 Days	<p>C) Integration of Individual Application</p> <table border="1"> <thead> <tr> <th>S No</th> <th>Deliverables</th> <th>Timelines</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SOPs and Use-Cases for operations in Command Center Application</td> <td>T2+30 Days</td> </tr> <tr> <td>2</td> <td>Testing of Application Integration</td> <td>T2+75 Days</td> </tr> <tr> <td>3</td> <td>Completion of Integration with UAT sign off</td> <td>T2+90 Days</td> </tr> </tbody> </table>	S No	Deliverables	Timelines	1	SOPs and Use-Cases for operations in Command Center Application	T2+30 Days	2	Testing of Application Integration	T2+75 Days	3	Completion of Integration with UAT sign off	T2+90 Days
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26	126	3.3 Payment Schedule	<table border="1"> <thead> <tr> <th>Sl. No</th> <th>Deliverables</th> <th>% Payment</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Inception Report including Design of the City command and Control Room.</td> <td>2.5%</td> </tr> <tr> <td>2</td> <td>High Level Architecture Diagram of the solution to include COTS integration platform and other applications as mentioned in the RFP.</td> <td>2.5%</td> </tr> <tr> <td>3</td> <td>FRS/SRS for IC4 application and other applications mentioned in the RFP.  Readiness of Cloud based DC and DR to host the applications as specified in the RFP.</td> <td>5%</td> </tr> <tr> <td>4</td> <td>IC4 and other Applications of RFP ready with existing applications integrated and Citi Mobile app and MCMC card.</td> <td>25%</td> </tr> <tr> <td>5</td> <td>Training , Handholding , Testing and Go live</td> <td>15%</td> </tr> <tr> <td>6</td> <td>Quarterly Payment based on the SLA and quarterly report for the operation and maintenance Period.</td> <td>Equated proportion of 50% on a quarterly basis.</td> </tr> </tbody> </table>	Sl. No	Deliverables	% Payment	1	Inception Report including Design of the City command and Control Room.	2.5%	2	High Level Architecture Diagram of the solution to include COTS integration platform and other applications as mentioned in the RFP.	2.5%	3	FRS/SRS for IC4 application and other applications mentioned in the RFP.  Readiness of Cloud based DC and DR to host the applications as specified in the RFP.	5%	4	IC4 and other Applications of RFP ready with existing applications integrated and Citi Mobile app and MCMC card.	25%	5	Training , Handholding , Testing and Go live	15%	6	Quarterly Payment based on the SLA and quarterly report for the operation and maintenance Period.	Equated proportion of 50% on a quarterly basis.	The payment schedule provided in the RFP stands deleted. The revised Payment schedule is attached as <b>Annexure 2 of Corrigendum 9</b>
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1	Inception Report including Design of the City command and Control Room.	2.5%																							
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6	Quarterly Payment based on the SLA and quarterly report for the operation and maintenance Period.	Equated proportion of 50% on a quarterly basis.																							
27	151	3.4.18 TAXES	a) The MSI shall bear all taxes and duties etc. levied or imposed on the MSI under the Contract including but not limited to Customs duty, Excise duty and all	The bidder is required to quote basic rates (Basic rate is the rate of any item inclusive of all taxes and levies but excluding GST).																					

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			Income Tax levied under Indian Income Tax Act – 1961 or any amendment thereof up to the date for submission of final price bid, i.e., on account of payments received by him from the designated authority for work done under the Contract. The MSI shall bear all taxes and duties etc. levied or imposed on the MSI under the Contract including but not limited to Customs duty, Excise duty and all Income Tax levied under Indian Income Tax Act – 1961 or any amendment thereof up to the date for submission of final price bid, i.e., on account of payments received by him from the designated authority for work done under the Contract.	<p>GST at prevailing rate shall be paid extra. All statutory deductions viz TDS from the bill shall be made by the employer.</p> <p>The MSI shall bear all taxes and duties etc. levied or imposed on the MSI under the Contract including but not limited to Income Tax levied under Indian Income Tax Act – 1961 or any amendment thereof up to the date for submission of final price bid, i.e., on account of payments received by him from the designated authority for work done under the Contract.</p> <p>The MSI shall also be responsible for having his Sub-Contractors if allowed / Applicable under its Sub-Contract(s) to pay all applicable taxes on account of payment received by the Sub-Contractors from the MSI for works done under the Sub-contracts in relation to this Agreement and the designated authority will in no case bear any responsibility for such payment of taxes.</p>
28	163	3.4.27 INSURANCE	The Goods supplied under this Contract shall be comprehensively insured by MSI at his own cost, against any loss or damage, for the entire period of the contract.	O&M is also in the scope of bidder, so the insurance shall be for entire duration of contract. The Comprehensive insurance shall include damages caused by fire, earthquake and flood.
29	225	Annexure-2.2.	d. We agree to abide by our offer for a period of 120 days from the date of opening of Technical bid prescribed by Authority and that we shall remain bound by a communication of acceptance within that time	d. We agree to abide by our offer for a period of 180 days from the date of opening of Technical bid prescribed by Authority and that we shall remain bound by a communication of acceptance within that time



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30	272	Solid Waste Management	<p>GPS/GPRS System, RFID, fuel sensors for all vehicles. Minimum number of vehicles is 300.</p> <p>Installation of GPS devices on all the vehicles, RFID Tags, RFID Readers.</p> <p>GPS Based Application software (Vehicle Tracking System) integrated with GPS, RFID devices</p> <ul style="list-style-type: none"> <li>• GPS/GPRS System, RFID, fuel sensors for all vehicles. Minimum number of vehicles is 300.</li> </ul>	<p>MSI shall integrate the GPS solutions provided by different vehicle tracking solutions in the corporation.</p> <ul style="list-style-type: none"> <li>• System should have the capability of integrating minimum of 300 vehicles.</li> </ul>
31	283	(6) - Integration of MCs, Call Centre & Municipal Services (Web Portal and Mobile Applications)	<p>ICCC will be required to integrate its helpdesk and system with Municipal Corporations call center, in case if there is some information or notification is to be sent to Municipal Corporations call center for doing some action in the field regarding Municipal Corporation work.</p> <p>All the information received from the command center will also go into the Analytical layer which will help city in better planning and running of operations.</p> <p>ICCC will be required to integrate with the backend system of Kochi Municipal Corporation services which is SAP based system to monitor the performance of the application. Along with this ICCC should be able to show the utilization by citizens of various sections of any mobile application in the form of a Dashboard.</p>	<p>IC4 will be required to integrate its helpdesk and system with Municipal Corporations call center, in case if there is some information or notification is to be sent to Municipal Corporations call center for doing some action in the field regarding Municipal Corporation work.</p> <p>All the information received from the command center will also go into the Analytical layer which will help city in better planning and running of operations.</p> <p><b>IC4 will be required to integrate with the backend system of Kochi Municipal Corporation services. All the APIs required for integration with IC4 shall be developed mutually in coordination with respective service providers by MSI.</b></p> <p>IC4 should be able to integrate with the existing ICT systems and edge / end / mobile devices of various Municipal Corporations departments such as Garden, General Administration Department, Water Supply, Sewerage, Assessment and Collection (Property Tax, Shops and</p>

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SL	RFP Page	Clause No./Reference	Earlier Clause(s)	Revised Clause(s)
			<p>ICCC should be able to integrate with the existing ICT systems and edge / end / mobile devices of various Municipal Corporations departments such as Garden, General Administration Department, Water Supply, Sewerage, Assessment and Collection (Property Tax, Shops and establishment), Fire (Fire Brigade Section), Transport of Heavy Vehicles and Maintenance (Workshop), Audit and License Issue to receive and send information.</p> <p>ICCC should be able to map the data received from various Municipal Corporations departments on its GIS Platform.</p> <ul style="list-style-type: none"> <li>• ICCC will be required to send Municipal Corporations field agents alerts and notifications for any emergency / incidents / disaster in the city for doing required action. ICCC system should also be able to get acknowledgement from the receivers.</li> </ul>	<p>establishment), Fire (Fire Brigade Section), Transport of Heavy Vehicles and Maintenance (Workshop), Audit and License Issue to receive and send information.</p> <p>IC4 should be able to map the data received from various Municipal Corporations departments on its GIS Platform.</p> <ul style="list-style-type: none"> <li>• IC4 will be required to send Municipal Corporations field agents alerts and notifications for any emergency / incidents / disaster in the city for doing required action. IC4 system should also be able to get acknowledgement from the receivers.</li> </ul>
32	288	Annexure 13 <b>IC4 Compliance Matrix. System Architecture, Integration</b>	The open platform IC4 application system shall be developed utilizing the latest architecture.	<ul style="list-style-type: none"> <li>• The IC4 platform should natively support and be compatible with OPC –UA architecture for seamlessly integrating legacy systems and new systems. The integration should be on real time basis and not offline basis.</li> </ul>

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		<b>Modules and Scalability</b>		
33	288	Annexure 13 IC4 Compliance Matrix. System Architecture, Integration Modules and Scalability	Incident Management, KPI and Reporting functionality should be integral to the core security management application and not a separate installable software entity.	Incident Management, KPI and Reporting functionality should be integral to the core security management application and not a separate installable software entity.  The entire system shall comply to Government of India MoUD note no K-15016/61/2016-SC-I dated 19 May 2016 on Cyber security model for smart cities <a href="http://smartcities.gov.in/upload/oms/5821b621a862dCyber_Securitypdf.pdf">http://smartcities.gov.in/upload/oms/5821b621a862dCyber_Securitypdf.pdf</a>
34	288	Annexure 13	IC4 Compliance Matrix. The open platform IC4 application system shall have a Client/Server infrastructure and will utilize three screen operator layouts. The operator software must be a 'thick-client' application which gets installed on operator terminal, works in sync with Server application and allows robust integrated interface for operators.	The open platform IC4 application system shall have a Web Based infrastructure. The operator software must use operator terminal, works in sync with Server application and allows robust integrated interface for operators.
35	295	Annexure 13- IC4 Compliance Matrix - C&C OEM Criteria"	3. IC4 OEM must not be same as any of the sub-systems involved in the project be it software or hardware. This is to make sure IC4 OEM is absolutely agnostic to any third party system and is not biased towards its own company products.	"IC4 OEM vendor shall provide the following undertaking" "IC4 software and all the other software must be platform agnostic and should be able to integrate with any Hardware or Application Software sub-system either from the Same OEM or from different OEM"

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36	295	"Annexure 13- IC4 Compliance Matrix C&C OEM Criteria"	5. IC4 software must be a 'thick Client' - Server architecture. Completely Web based systems are not valid or suited for such an integrated and robust B2B application.			IC4 software must be a Completely Web based systems suited for integrated and robust application.		
37	339	Fixed Dome Cameras for Indoor Surveillance	Sl. No.	Parameter	Minimum Specifications	Sl. No.	Parameter	Minimum Specifications
			1.	Video Compression	H.264	1.	Video Compression	H.265
38	343	4) Video Wall Point no 2	The OEM should be an established multinational in the field of video walls and should have installations around the world: ISO 9001: 2015 certified, CE, Leader in Gartner Magic Quadrant.			The OEM should be an established multinational in the field of video walls and should have installations around the world: ISO 9001: 2015 certified, CE.		
39	343	4)Video Wall	The minimal specifications of video wall cubes are as below - <ul style="list-style-type: none"> <li>a. Configuration: Video Wall Cubes of min 50" DIAGONAL Cube &amp; controller</li> <li>b. The OEM should be an established multinational in the field of video walls and should have</li> <li>c. Installations around the world: ISO 9001: 2015 certified, CE, Leader in Gartner Magic Quadrant.</li> <li>d. Native Resolution: Full HD (1920x 1080)</li> </ul>			The minimal specifications of video wall cubes are as below - <ul style="list-style-type: none"> <li>(a) Configuration: Video Wall Cubes of min 70" DIAGONAL Cube &amp; controller</li> <li>(b) 1920x 1080 native or better</li> <li>(c) Video wall solutions should be expendable as per future requirement of customer</li> <li>(d) Technology DLP based LED rear projection</li> <li>(e) Brightness :300 CD per square meter or better</li> <li>(f) Brightness Uniformity : 95 %</li> <li>(g) Dynamic Contrast : 1500:1 or more</li> <li>(h) Intel Xeon Quad core 3 Ghz or Core i7, 3 Ghz or more , with 32 GB RAM</li> </ul>		

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SL	RFP Page	Clause No./Reference	Earlier Clause(s)	Revised Clause(s)
			<p>e. Light Source Type: Laser light source</p> <p>f. Brightness of Projection engine: Minimum 2200 lumens</p> <p>g. Video Wall Controller: Operating system should be windows 7 or higher, 64 bit</p> <p>h. Architecture Should support cloud-based solutions.</p> <p>i. Operating System: Linux Preferred</p> <p>j. RAM: 8 GB or higher</p> <p>k. HDD: 500 GB or higher</p> <p>l. RAID: RAID should be provided</p> <p>m. Power Supply: Dual Redundant Power Supply</p> <p>n. 8 DP/ DVI or higher outputs to the cube</p> <p>o. 6 DVI or higher Input, Dual LAN</p> <p>p. Capable to display image from UNIX, LINUX system</p> <p>q. Software should be provided to manage video wall content</p>	<p>(i) 19" Rack mount industrial chassis</p> <p>(j) 2 Network Ports</p> <p>(k) IP based control to be provided</p> <p>(l) IR remote control/ IP based shall also be provided for quick access</p> <p>(m) Screen to Screen Gap : ≤ 1.0 mm</p> <p>(n) Screen Life : Normal mode: 60 000h and Eco mode: 80 000h</p> <p>(o) Input: 1 x DVI/ 1 x HDMI</p> <p>(p) Output: 1 x DVI / HDMI</p> <p>(q) Shall provide auto color adjustment function. Each cube/panel of video wall should be equipped with inbuilt sensor ensuring automatic &amp; continuous brightness and color calibration</p> <p>(r) Video wall shall be equipped with a cube control &amp; monitoring system</p> <p>(s) Provide video wall status including Source , light source ,temperature, and power information</p> <p>(t) Shall provide a virtual remote on the screen to control the video wall</p> <p>(u) Input sources can be scheduled as per user convenience</p> <p>(v) Video wall content will be able to show live on any remote display, mobile, with Browser ( IE/Chrome/Mozilla/safari)</p>

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SL	RFP Page	Clause No./Reference	Earlier Clause(s)	Revised Clause(s)
				<p>(w) The software should be able to pre configure various display layouts and access them at any time with a simple mouse click or schedule/timer based.</p> <p>(x) The software should be able display multiple sources anywhere on video wall in any size.</p> <p>(y) Key features of Video Wall management Software</p> <p>(z) Central configuration database</p> <p>(aa) Browser based user interface</p> <p>(bb) Auto-detection of network sources</p> <p>(cc) Online configuration of sources, displays and system variables</p> <p>(dd) Should support Multiple clients / Consoles to control the Wall layouts</p> <p>(ee) Software should enable the user to display multiple sources (both local &amp; remote) up to any size and anywhere on the display walls (both local &amp; remote).</p> <p>(ff) The software should be capable of remote viewing facility ; The video wall content will be able to show live on any remote display and Mobile using browser (IE/ chrome/ Mozilla/ safari)</p> <p>(gg) The Display Wall and sources (both local &amp; remote) should be able to be controlled from Remote PC</p>
40	348	8)	<p>Common guidelines regarding compliance of systems/equipment</p> <p>All licenses should be in the name of the Cochin</p>	<p>CSP should provide dedicated software licenses/ subscriptions in the name of the COCHIN SMART MISSION LIMITED instead of any shared licenses / subscriptions / community cloud.</p>

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41	351	Annexure 16: Geospatial Server Software Compliance Matrix 3. GIS Server: General Requirement	11. The proposed solution should be completely comprehensive in supporting multiple protocols. The proposed solution should have <b>ECWP\JPIP along with the OGC Web Services</b> like WMS, WFS, WCS, WFS-T, and WMTS and all in one package.	11. The proposed solution should be open source and completely comprehensive in supporting multiple protocols. The proposed solution should have <b>OGC approved open standard</b> Web Services like WMS, WFS, WCS, WFS-T, and WMTS and all in one package.
42	351	3.8	Should have the concept of automatic crawling and metadata harvesting in the COTS package itself, an administrator should be able to actually serve data (or a set of data) without worrying about the new or changed data. Crawlers can efficiently judge and serve the latest data. And hence this 'automated service management' increases the efficiency and productivity by reducing the time required to manage it. The system must do the following tasks automatically	Should have the concept of automatic metadata harvesting in the COTS package itself, an administrator should be able to actually serve data (or a set of data) without worrying about the new or changed data. The software has to be platform agnostic (Software and Hardware).
43	358	9. GIS Server: Data management and dissemination requirements	System should support automatic cataloguing of the datasets stored in the central database. It should have a separate option to "Crawl Database".	The clause is deleted
44		BOQ item no. 1.01	Procurement and Implementation of Commercially Off the Shelf (COTS) Integrated	"Procurement and Implementation of Commercially Off the Shelf (COTS) Integrated Command Control and

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			<p>Command Control and Communication Center applications as per the Compliance Matrix detailed in the RFP along with requisite licenses of all software components of the platform as per scope of work- technical specifications and connected annexures including warranty of five years(including GIS, mobile app, <b>Development of Multicity Mobility Card</b> , Project Management System and mail server, Citizen portal, application for Solid waste Management etc.) It also includes all the connected accessories, equipment, software and services</p>	<p>Communication Center applications as per the Compliance Matrix detailed in the RFP along with requisite licenses of all software components of the platform as per scope of work- technical specifications and connected annexures including warranty of five years (including GIS, mobile app, Project Management System and mail server, Citizen portal, application for Solid waste Management etc.) It also includes all the connected accessories, equipment, software and services”</p>





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Annexure 1 of Corrigendum 9

FORM OF PARENT COMPANY GUARANTEE

Brief description of Contract-----

Name and address of Employer -----(together with successors and assigns).

We have been informed that ----- (hereinafter called the "Contractor") is submitting an offer for such Contract in response to your invitation, and that the conditions of your invitation require his offer to be supported by a parent company guarantee.

In consideration of you, the Employer, awarding the Contract to the Contractor, we (-----name of parent company) irrevocably and unconditionally guarantee to you, as a primary obligation, the due performance of all the Contractor's obligations and liabilities including the financial support from time to time ( strike through if bidding company is financially self reliant ) under the Contract, including the Contractor's compliance with all its terms and conditions according to their true intent and meaning.

If the Contractor fails to so perform his obligations and liabilities and comply with the Contract, we will indemnify the Employer against and from all damages, losses and expenses (including legal fees and expenses) which arise from any such failure for which the Contractor is liable to the Employer under the Contract.

This guarantee shall come into full force and effect when the Contract comes into full force and effect. If the Contract does not come into full force and effect within a year of the date of this guarantee, or if you demonstrate that you do not intend to enter into the Contract with the Contractor, this guarantee shall be void and ineffective. This guarantee shall continue in full force and effect until all the Contractor's obligations and liabilities under the Contract have been discharged, when this guarantee shall expire and shall be returned to us, and our liability hereunder shall be discharged absolutely.

This guarantee shall apply and be supplemental to the Contract as amended or varied by the Employer and the Contractor from time to time. We hereby authorize them to agree any such amendment or variation, the due performance of which and compliance with which by the Contractor are likewise guaranteed hereunder. Our obligations and liabilities under this guarantee shall not be discharged by any allowance of time or other indulgence whatsoever by the Employer to the Contractor, or by any variation or suspension of the works to be executed under the Contract, or by any amendments to the Contract or to the constitution of the Contractor or the Employer, or by any other matters, whether with or without our knowledge or consent.

This guarantee shall be governed by the law of the same country (or other jurisdiction) as that which governs the Contract and any dispute under this guarantee shall be finally settled under the Rules of Arbitration of the same country by one or more arbitrators appointed in accordance with such Rules. We confirm that the benefit of this guarantee may be assigned subject only to the provisions for assignment of the Contract.

Date

Authorized Signature (s)
With Seal of Company

## Annexure 2 of Corrigendum 9

### 1.1 PAYMENT SCHEDULE

#### IC4: Project Payment Schedule

Item No.	Item Description	Payment Schedule - % of the corresponding item value provided in contract	
<b>1</b>	<b>Capital Cost</b>		
1.01	Procurement and Implementation of Commercially Off the Shelf (COTS) Integrated Command Control and Communication Center applications as per the Compliance Matrix detailed in the RFP along with requisite licenses of all software components of the platform as per scope of work- technical specifications and connected annexures including warranty of five years(including GIS, mobile app, Project Management System and mail server, Citizen portal, application for Solid waste Management etc.) It also includes all the connected accessories, equipment, software and services	Inception Report	10%
		High Level Architecture of the solution as mentioned in the RFP.	10%
		FRS/SRS for IC4 and other applications in the RFP. Readiness of Cloud based DC and DR	20%
		IC4 and other Applications of RFP ready with existing applications integrated and Citi Mobile app and MCMC card.	60%
1.02	Implementation and Integration of services for the application software including Aadhaar , Akshaya centers for delivery of services as per scope of work described in technical specifications and connected annexures	Inception Report	20%
		FRS/SRS of the solution	20%
		Set up of the Aadhaar User Services Development application and integration for Aadhaar services ,	60%

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		Integration Akshaya for delivery of services	
1.03	City Command center (including Connected works) design and build as per scope of work described in technical specifications and connected annexures	Inception Report including design of the Command control Room including 3D modelling	20%
		Set up of the City Command center (including Connected works) as per design as per scope of work described in technical specifications and connected annexures	80%
1.04	Training and capacity building as per scope of work described in technical specifications and connected annexures.	On 100% completion of Training and hand holding activities – <b>100%</b>	
<b>2</b>			
2.01	Cloud hosting for the duration of contract as per scope of work described in technical specifications and connected annexures	To be paid 5% quarterly as per SLA for 60 months	
2.02	Application maintenance, helpdesk, manpower for operations and maintenance as per scope of work described in technical specifications and connected annexures	To be paid 5% quarterly as per SLA for 60 months	
2.03	Bandwidth for connectivity (Will be paid directly to telco as per actual billing based on quoted rates under tri-party agreement between Kochi smart city ltd, bidder and telco) per year for 16 Mbps.( per Mbps cost shall be arrived at for scalability purpose) as per scope of work	To be paid quarterly as per actual billing limited to total (item no. 2.03 of BOQ) contract value.	

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	described in technical specifications and connected annexures	
2.04	Software Annual Technical Support and subscription as % of the cost Applicable after five years also (as per scope of work-technical specifications and connected annexures)	To be paid annually limited to total (item no. 2.04 of BOQ) contact value

Note – Payment of the capital cost will be limited to 50% of the total contract value on completion and going live and balance shall be paid in equated instalments during the five years operation and maintenance period.

For further updates visit website [www.etenders.kerala.gov.in](http://www.etenders.kerala.gov.in), [www.csml.co.in](http://www.csml.co.in), [www.kochimetro.org](http://www.kochimetro.org) -Under organization name – “ Kochi Metro Rail Ltd”.

**Cochin Smart Mission Limited**