



Cochin Smart Mission Limited (CSML)

ADDENDUM-I

For

RFP for Selection of Master System Integrator for Establishment of Integrated Command, Control and Communication Centre (IC4) in Kochi under Smart City Mission.

Tender ID: 2018_KMRL_206409_1
RFP: CSML/ICT/RFP/001 Dated: 27/04/2018

Pursuant to para 3 of 'NOTICE INVITING RFP' of RFP, following addenda is issued and it shall form part of the RFP proposal.

SL	RFP Page No.	Clause No./Reference	Earlier Clause(s)	Additional Clause(s)
1	72	1.3.14 Demo & Presentation Table S.N. 2	2. Live Demo / POC Bidders will be required to do the Demo / POC. Bidder will be given minimum of 1 week to establish setup for infrastructure doing the Demo / POC at Kochi. Bidder will be provided with a room from CSML to do the required setup. Details for doing POC shall be discussed during the pre-bid meeting.	2. Live Demo / POC Bidders will be required to do the Demo / POC. Bidder will be given minimum of 1 week to establish setup for infrastructure doing the Demo / POC at Kochi. Bidder will be provided with a room from CSML to do the required setup. Details for doing POC shall be discussed during the pre-bid meeting. PoC of evaluation parameters are as given in Annexure 2 to Addendum 1

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2	85	Scope of work Serial 4	New Additional Clause as clause 4b)	4. b) The list of probable applications that are to be integrated have been indicated in the RFP which also includes legacy systems. In case the concerned department having legacy applications is unable to comply with the standards and make necessary modifications to the legacy systems then the bidder may be permitted to do a POC of the solution which can be subsequently used for integration. This may be allowed in exceptional circumstances.
3	270	Annexure12 Additional Functional Requirements and Integration Scope Proposed ICT based systems of Kochi Smart City and integration scope Kochi Smart Citizen (App)	New Additional clause	<p>Following clauses are added after key features of Kochi Smart Citizen: “The Smart city mobile app will be using BHIM platform. The app will be operable using Aadhaar pay at the CSCs (Akshaya) for digitally illiterate citizens. Thus, the app will be inclusive of all citizens, all technologies and at zero transaction fee making it efficient, convenient and cheap to use.</p> <p>The solution provided by the MSI will include various payment related aspects including Civic payments, taxes, Utilities bills payments etc. as well as non-civic payments. The technology will support Mobile based solutions for E-Governance services (at Akshaya CSCs). The proposed solution should cover the planned City Mobile Application with integration with existing and new payment technologies including UPI, BBPS, BHIM, QR and Aadhaar based payment for enabling an efficient e-Governance. Integration with BBPS platform will enable payment of bills through one platform. Payment solutions will seamlessly integrate with Govt departments and shall be used for all sorts of Civic payments including Taxes, e-challan as well other Non-civ payments like retails.”</p> <p>Development of Smart Kochi Mobile payment app will enable all citizens to access all common services across the nation. Smart Kochi mobile app is designed in line with directions of MoUD, MeitY and NPCI to provide a uniform platform across other cities in the nation. Smart Kochi shall be open, inclusive and citizen friendly and inclusive of all banks. Smart Kochi conforms to all types of technologies, all types of financial transactions and all types of users (including digitally illiterate). It is integrated to BBPS (Bharat Bill Payment System) which caters to all types of utility bills on one</p>

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				platform (KSEB included). Smart Kochi will be based on UPI 2.0 which ensures there is negligible or no transaction fee making it most citizen friendly. Smart Kochi is integrated to BBPS which will enable the citizens of Kochi to get all services of other cities which are integrated to NPCI. Smart Kochi shall try to include all the online payment functions of NCMC card through the mobile app.
4	301	Command and Control Room	New Additional clause	Command centre & control desk should be designed as per ISO 11064 (1 to 7) ergonomic norm principles. Command Center design should comply to Human Factor Engineering (HFE) norms and safety parameters of command center. Command Center Interior & desk should be seismic zone 5 tested.
5	347	8. Common guidelines regarding compliance of systems/equipment	New Clause s.n.17	18. 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 http://smartcities.gov.in/upload/oms/5821b621a862dCyber_Securitypdf.pdf
6	348	8)	A) Common guidelines regarding compliance of systems/equipment	New Clauses From 18 to 20 are added after S. No 17 18. OEM of the various proposed system software shall have its own India Support center. 19. System software proposed as part of an application platform shall be replaceable and should not cause any vendor lock-in. The bidder shall not propose an application platform/bundle which enforces vendor lock-in eg that platform/bundle uses only specific OEM products in that bundle that too with restricted use only for that limited application. 20. The bidders shall not propose any restricted use

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7	355	7. GIS Server: Data Portrayal and delivery over Web Client		<ul style="list-style-type: none"> • GIS application should be open source and should comply with open standards and Metadata as per Indian IT act. • MSI should provide dedicated software licenses/ subscriptions in the name of the COCHIN SMART MISSION LIMITED instead of any shared licenses / subscriptions / community cloud

Bidder shall make note of the same & submit their Proposal accordingly.

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Annexure 1 of Addendum I

POC of Evaluation Parameters

As per Technical evaluation in RFP, POC mentioned at Ser 2 , page 72 , the capabilities of IC4 to be demonstrated using Cloud hosted environment for different applications domains as listed below through the relevant Use cases in India context for respective application/s infrastructure (sensors/gateways) in following city services domains. All Sensors (Devices/Cameras) that will be required to be integrated for demonstration of the use case must be deployed locally at the POC setup location or remotely demonstrated, if deployed on Cloud PaaS or SaaS model and Cloud deployment certification from relevant authorities must be submitted before the POC commencement. All the use cases that need sensor data to be integrated should be integrated through the proposed Cloud Service Provider (CSP) IoT PaaS Service and demonstrated. All external application data that will have to be integrated for demonstration of the use case must be integrated through the proposed CSP based PaaS Service.

	PoC Solutions	Demonstration Requirements
1	Smart Parking	Should demonstrate using parking sensor in GIS/geospatial view
2	Smart Lighting	Should demonstrate using lighting controllers and smart lights – street light power utilization, power on status, GIS/geospatial view, and Motion sensor based controls.
3	Smart Public Transport	Should demonstrate vehicle gateway integration for GPS and Panic button alerts. a. Intelligent Transport Management Systems i) Vehicle Actuated Signals ii) Pelican Signals iii) Corridor Management and Area Traffic Control System iv) Traffic Surveillance Cameras through PTZ cameras for Violation detection and Incident management. v) Red Light Violation Detection System vi) Automated Challaning System vii) Variable Message signages viii) Remote access to the signals b. Passenger Information System
4	Smart water Management	Smart water distribution, Smart metering for utilities

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	PoC Solutions	Demonstration Requirements
		Should demonstrate using flow sensors, valve sensors and smart meters.
5	Smart surveillance	Should demonstrate using camera and Edge Analytics – a. Detection and classification of human, animal and vehicle b. Loitering detection c. Person climbing barricade d. Person collapsing e. Person/Face recognition f. Detection and Recognize the pattern.
6	Smart public events Management	Should demonstrate Event entry using access control and visitor movement through camera.
7	Smart WiFi	Should demonstrate using WiFi Hotspots data management and user management.
8	Disaster Management (in city area)	Should demonstrate using Flood Sensors, Rain Gauge Sensors. Ability to differentiate Flash Rain and Water Logging at sensitive Zones
9	Emergency Services (in case of fire or accident or causality in urban area etc.)	Should demonstrate using SOP Workflows, Hospital Alert / Notifications, and integration with Fire Services Truck GPS monitoring.
10	Environmental sensors	Should demonstrate using environment sensor a. Temperature b. Humidity c. Air Quality d. Sound Level – Noise Pollution
11	Flooding/water logging management	Should demonstrate using sewage level sensor.
12	Smart waste management, Managing city	Should demonstrate using Waste Bin Sensors. a. Bin Location b. Bin Level c. Garbage Collection route management

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	PoC Solutions	Demonstration Requirements
		d. Citizen / Office Mobile Apps
13	Intelligent Traffic Management System	Should demonstrate using <ul style="list-style-type: none"> a. Adaptive Traffic Control System b. Intelligent Transport Systems c. Automated Number Plate Recognition/Variable Message Display d. Red Light Violation Detection Speeding Detection
14	Water Scada systems	Should demonstrate data integration through API.
15	Electricity SCADA Integration	Should demonstrate data Integration through API.
16	Public Information Outreach	Public announcement and Connected signage – Should demonstrate using API.
17	Shared Fiber infrastructure	Should demonstrate integration of Sensor data and camera data through a common fiber infrastructure.
18	Citizen services Applications (City Apps)	Should demonstrate using Mobile Apps for Citizen Services. <ul style="list-style-type: none"> a. Property tax b. Birth registration c. Death registration d. Trade licence e. Marriage Registration f. Building plane approval g. Grievances Redressal System
19	Social Media Response	Should demonstrate using Social Media monitoring tool sentiment analysis, influencers mapping, geotagging and exporting data through API.
20	e- Health	Should demonstrate citizen’s service interface using <ul style="list-style-type: none"> a) Geolocation of General Hospital, Primary Health Center, Community Health center, Outpatient Clinic. b) Patient Interface <ul style="list-style-type: none"> i) Geo based nearest Hospitals ii) Department and Doctors

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	PoC Solutions	Demonstration Requirements
		<ul style="list-style-type: none"> iii) Medical reports iv) Ambulance and SoS facility c) Hospital Information Management System(HIMS) <ul style="list-style-type: none"> i) Registration, Outpatient consultant ii) Pharmacy, Blood Bank iii) Electronic Medical Record(EMR) iv) Electronic Health Record(EHR) d) Health care MIS System <ul style="list-style-type: none"> i) Report on Communicable/Non Communicable disease control. Disease surveillance
21	Smart Map(GIS)	<p>Should demonstrate:</p> <ul style="list-style-type: none"> a) GIS based Citizen portal <ul style="list-style-type: none"> i) Map visualization module ii) Query and location based information module iii) Education services iv) Health services v) Transport service vi) Cultural and community events b) Asset and Utility Management <ul style="list-style-type: none"> i) GIS mapping of Building, Plots/Vacant Lands ii) Roads iii) Drainage and Sewerage Network iv) Water Supply Network v) Slum Boundaries vi) Street Lights vii) Hoardings viii) Bridges/ Flyovers ix) Garbage Collection Centres c) Heritage and other Landmarks

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	PoC Solutions	Demonstration Requirements
	Public Bike Sharing System	Should demonstrate <ul style="list-style-type: none"> a) Monitoring of the system including details like bicycle and dock availability at each station. b) Tracking of stations and enabling efficient redistributions of bicycle. c) Web/Mobile based Public interface <ul style="list-style-type: none"> i) Static and real time information about the system ii) Fare collection

For further updates visit website www.etenders.kerala.gov.in, www.csml.co.in, www.kochimetro.org -Under organization name – “ Kochi Metro Rail Ltd”.

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