



Government of Jharkhand  
Urban Development & Housing Department  
**Ranchi Smart City Corporation Limited**

4<sup>th</sup> Floor, Project Bhawan, Dhurwa, Ranchi- 834004 | e-mail: ranchismartcity@gmail.com  
CIN: U45309JH2016SGC009206



Tender Notice No. : RSCCL/C4/RFP-58/2017-58

Issued on: 12-10-2017

PR No. : 171791, 172537, 173499, 174165

Memo No: RSCCL/C4/RFP-58/2017-112 (Encl)

Ranchi/Date: 05/12/2017

**CORRIGENDUM -IV**

It is hereby informed that corrigendums to the RFP/corrigendum-II/corrigendum-III have been made with respect to various clauses and extension in last date of bid submission to the published RFP (Tender Notice No. : RSCCL/C4/RFP-58/2017-58) for **“Selection of Master System Integrator (MSI) for Implementation of Command Control and Communication Centre (C4) under Smart City Mission in Ranchi”**.

Corrigendums/amendments/addendums have been indicated in Annexure-I. The above document is uploaded to our websites i.e. <http://udhd.jharkhand.gov.in>, <http://smartranchi.jharkhand.gov.in> and <http://jharkhandtenders.gov.in>.

Interested bidders are advised to refer the above documents before submission of their bids.

Encl: As Above

Sd/-  
**(Rajesh Kumar Sharma)**  
Director, SUDA

#	RFP/ Corrigendum Reference	Page No.	Original Clause	Amended/Added Clause
1.	Corrigendum – III	2	Last Date and Time of Submission of Proposals – December 7, 2017 at 11:00 AM	Last Date and Time of Submission of Proposals – December 14, 2017 at 4:00 PM
2.	Corrigendum – III	2	Date & Time of Opening of Technical Proposal – December 8, 2017 at 11:30 AM	Date & Time of Opening of Technical Proposal – December 15, 2017 at 3:00 PM
3.	-	-	Clarification	The Right of Way (RoW) charges shall be borne by RSCCL whereas the Re-Instatement (RI) charges along with other all fees has to be borne by Bidder.
4.	-	-	Clarification	EMD should be deposited on or before online tender submission date & time.
5.	-	-	Addition/Clarification for storage of data	<p><b>Data Retention Requirements</b></p> <p>The following storage requirements shall be fulfilled by the MSI as scope for the project:</p> <ol style="list-style-type: none"> <li>a. 30 days storage of all the surveillance camera feeds to be stored at Data Centre, balance 60 days will be on secondary storage. Permanent storage envisaged on backup storage</li> <li>b. 90 days storage for all ITMS system except for ATCS</li> <li>c. 365 days storage of traffic junction data for ATCS at Data Centre and Flagged data will be stored for approximately 3 years.</li> <li>d. Above systems except ATCS are required to be stored on Primary storage for 7 days &amp; on Secondary Storage for remaining days respectively at Data Centre.</li> <li>e. For ATCS, Primary storage will be for 90 days and Secondary Storage for 275 days. Back up storage for 3 Years approximately.</li> <li>f. Environmental sensor data shall be stored for 5 years.</li> <li>g. Data on storage would be over-written automatically by newer data after the stipulated time period. If some data is flagged by RSCCL (or by designated agency/personnel) as important data / evidence data due to some reporting of crime or accident in the area or due to court order or due to suspicious activity, it would need to be stored for longer duration, as per requirements. RSCCL would analyze such flagged data every 3 months to take such decisions for preservation of the flagged data beyond 90 days.</li> <li>h. Full audit trail of reports to be maintained for 90 days.</li> <li>i. Bidder is expected to carry out the storage requirement estimation and supply as per the solution proposed.</li> </ol>

				<p>j. Retrieval time for any data stored on secondary storage should be max. 4 hours for critical data &amp; 8 hours for other data.</p> <p>k. The recording servers / system, once configured, shall run independently of the Video Management system and continue to operate in the event that the Management system is off-line.</p> <p>l. The system shall support the use of separate networks, VLANs or switches for connecting the cameras to the recording servers to provide physical network separation from the clients and facilitate the use of static IP addresses for the devices.</p>
6.	-	-	Clarification	<b>Ruggedised L2 PoE switch</b> shall be used for all outdoor locations. Specifications for this device is mentioned on page number 349 of Vol II of the RFP with subsequent modifications in the corrigendum.
7.	RFP Vol I	75	Total of Capital Expenditure (CAPEX) (A= A1+A2+A3+A4+A5+A6)	Total of Capital Expenditure (CAPEX) (A= A1+A2+A3+A4+A5+A6+A7)
8.	RFP Vol I	76	Addition	1.10 A. Layer 3 Gigabit Manageable switch – No. - 4
9.	RFP Vol I	77	Addition	1.13 A. IP PBX – Set - 1
10.	RFP Vol I	77	Addition	1.13 B. Multi party conference Unit – Set - 1
11.	RFP Vol I	81	Addition	3.34 A. Fire proof enclosures – No. – As per requirement
12.	RFP Vol I	82	3.45 Mail & Messaging Solution	3.45 Mail & Messaging Solution (server license with 100 client licenses)
13.	RFP Vol I	84	Addition	3.66 A. Directory services – Lot – 1
14.	RFP Vol I	84	Addition	3.66 B. Identify Access Management – Lot - 1
15.	RFP Vol I	94	1.1 Camera Based Sensors parking sensors – 50	1.1 Camera Based parking sensors - 200
16.	RFP Vol I	96	IoT based Environment sensors – No. – 15	IoT based Environment sensors – No. – 10
17.	RFP Vol II	105	4.1.1 Industrial Grade Outdoor PoE switches	This stands deleted.
18.	RFP Vol II	106	4.1.2 Online UPS – 1/2 KVA	4.1.2 Online UPS
19.	RFP Vol II	106	3. Capacity - Adequate capacity to cover all above IT Components at Dc for at-least 60 min	3. 3. Capacity - Adequate capacity to cover overall solution's Components at junctions for at-least 60 min
20.	RFP Vol II	127	75. Provide the ability to search/locate resources based on name, department, role, geography, skill etc. for rapidly assembling a team, across department, divisions and agency boundaries, during emergency	75. Provide the ability to search/locate resources based on name, role, skill, department/geography etc. for rapidly assembling a team, across department, divisions and agency boundaries, during emergency
21.	RFP Vol II	127	75. Provide a single web based dashboard to send notifications to target audiences using multiple communication methods including voice-based notification on PSTN/Cellular, SMS, Voice mail, E- mail and Social Media	75. Provide a single web based dashboard to send notifications to target audiences using multiple communication methods including voice-based notification on PSTN/Cellular, SMS, Voice mail/E- mail and Social Media

22.	RFP Vol II	138	4.2.3 IP Push to Talk (interpretability Communication Channel)	This stands deleted.
23.	RFP Vol II	144	Solution should enable various operators to access the display wall from the local keyboard and mouse of their workstation connected with the DCMS and Video Wall on the Ethernet.	Solution should enable various operators to access the display wall from the local keyboard and mouse of their workstation connected with the <b>video wall management software</b> and Video Wall on the Ethernet.
24.	RFP Vol II	159	4.3.1 Core/ <b>Internet</b> Router	4.3.1 Core Router
25.	RFP Vol II	168	7. Backplane Throughput - 2560 Gbps or better	7. Backplane Throughput – <b>1440 Gbps</b> or better
26.	RFP Vol II	178	Backup size - To store data as required, to meet the archival requirement for different type of data/information: 45 days of storage for surveillance camera feeds, 90 days of storage for traffic enforcement systems, 365 days of storage for ATCS systems	This stands deleted.
27.	RFP Vol II	181	4.3.12 WAN Router	This stands deleted.
28.	RFP Vol II	258-259	<p>Pan: 360° endless/ continuous, 0.2 to 300°/s (auto), 0.2 to 100°/s (Manual)</p> <ul style="list-style-type: none"> <li>▪ Tilt: 90°, 0.2 to 100°/s (Auto), 0.2 to 40°/s (Manual)</li> <li>▪ 20x optical zoom and 10x digital zoom</li> <li>▪ 64 preset positions</li> <li>▪ Auto-Tracking</li> <li>▪ Pre-set tour</li> </ul>	<p>Pan: 360° endless/ continuous, 0.2 to <b>200°/s</b> (auto), 0.2 to 100°/s (Manual)</p> <ul style="list-style-type: none"> <li>▪ Tilt: 90°, 0.2 to 100°/s (Auto), 0.2 to 40°/s (Manual)</li> <li>▪ 20x optical zoom and 10x digital zoom</li> <li>▪ 64 preset positions</li> <li>▪ Auto-Tracking</li> <li>▪ Pre-set tour</li> </ul>
29.	RFP Vol II	266	7.a. The system should be capable of continuous video recording in base station for 7 days. The system shall automatically overwrite the data after 7 days. It should be noted that at any point of time the local storage at the base station should have the data of previous 30 days.	7.a. The system should be capable of continuous video recording in base station for 7 days. The system shall automatically overwrite the data after 7 days. It should be noted that at any point of time the local storage at the base station should have the data of previous <b>7 days</b> .
30.	RFP Vol II	278	7.a. The system should be capable of continuous video recording in base station for 30 days. The system shall automatically overwrite the data after 30 days. It should be noted that at any point of time the local storage at the base station should have the data of previous 30 days.	7.a. The system should be capable of continuous video recording in base station for <b>7 days</b> . The system shall automatically overwrite the data after <b>7 days</b> . It should be noted that at any point of time the local storage at the base station should have the data of previous <b>7 days</b> .
31.	RFP Vol II	288	10.a. The system should be capable of continuous video recording in base station for 7 days. The system shall automatically overwrite the data after 7 days. It should be	10.a. The system should be capable of continuous video recording in base station for 7 days. The system shall automatically overwrite the data after 7 days. It should be noted that at any point of time the local storage at the base station should have the data of previous <b>7 days</b> .

			noted that at any point of time the local storage at the base station should have the data of previous 30 days.	
32.	RFP Vol II	291	8. The IP BASED NVR shall support both Linux and Windows platform.	8. The IP BASED NVR shall support Linux/Windows platform.
33.	RFP Vol II	300	28. The MTBF of DDS shall not be less than 100,000 hours.	28. The MTBF of Variable Message Signage shall be more than 10,000 hours and life span shall not be less than 100,000 hours.
34.	RFP Vol II	303	Solution shall also include provision to capture image of vehicle including license plate number of every vehicle entering and leaving any of the parking spaces and the all the information related to the same shall be stored at a central server.	For off-street, solution shall also include provision to capture image of vehicle including license plate number of every vehicle entering and leaving any of the parking spaces and the all the information related to the same shall be stored at a central server.
35.	RFP Vol II	306	CannzTolution shall be capable of monitoring the number of vehicles that entered or exited the parking premises during any given time	Solution shall be capable of monitoring the number of vehicles that entered or exited the parking premises during any given time
36.	RFP Vol II	307	Shall be able to monitor any CCTV camera with IP connection.	Shall be able to remotely monitor any CCTV camera connected with smart parking solution
37.	RFP Vol II	307	Shall be able to monitor electricity consumption, voltage, energy, and harmonics.	This clause stands deleted.
38.	RFP Vol II	308	Protection Level: IP67	Protection Level: IP66
39.	RFP Vol II	310	Mounting of the environmental sensor module shall be co-located on streetlight pole or shall be installed on a tripod/standalone pole.	This clause stands deleted.
40.	RFP Vol II	335	The application Shall have support for CQL Filters to obtain better Analytical capabilities.	The application Shall have support for CQL/SQL Filters to obtain better Analytical capabilities.
41.	RFP Vol II	343	WLAN Controller should support minimum of 5000 Access points in a single chassis. If any OEM/Bidder can't provide WLAN controller to support 5000 AP in 2RU form factor, multiple controllers must be proposed to meet the requirement from day one. Proposed controller should support N+N redundancy from day one	WLAN Controller should support minimum of 3000 Access points in a single chassis. If any OEM/Bidder can't provide WLAN controller to support 3000 APs in 2RU form factor, multiple controllers must be proposed to meet the requirement from day one. Proposed controller should support N+N redundancy from day one
42.	RFP Vol II	349	System Capacity: 16K MAC addresses	System Capacity: 8K MAC addresses
43.	RFP Vol II	349	3. Performance: The switch should have min. 20 Gbps of switching capacity & min. 17 Mpps of forwarding rate	3. Performance: The switch should have minimum 12 Gbps of switching capacity
44.	RFP Vol II	349	4. VLAN:	4. 4. VLAN:

			Support for Port-based VLANs, 500 VLANs (IEEE 802.1Q), MAC-based VLANs, Port-based Private VLANs, IP subnet-based VLANs	Support for Port-based VLANs, 256 or more VLANs (IEEE 802.1Q), MAC-based VLANs, Port-based Private VLANs, IP subnet-based VLANs																				
45.	RFP Vol II	349	5. Quality of Service: Support for Egress rate limiting, Eight egress queues per port, Voice VLAN, DSCP for IP-based QoS, Differentiated services architecture, IEEE 802.1p Class of Service with strict and weighted round Robin scheduling.	5. Quality of Service: Support for Egress rate limiting, four egress queues per port, DSCP for IP-based QoS, Differentiated services architecture, IEEE 802.1p Class of Service with strict and weighted round Robin scheduling.																				
46.	RFP Vol II	350	8. Security: The switch should support TACACS+, RADIUS accounting and RADIUS client, IEEE 802.1x port-based Network Access Control (NAC), IEEE 802.1x multiple supplicant mode, EAP, EAP-TLS, LEAP, PEAP, TTLS, Per port MAC address filtering, Layer 2/3/4/ Access Control Lists (ACLs), SSL for Web management, Per port MAC address limiting, MAC address security/lockdown, Guest VLANs and SSH session, Time out.	8. Security: The switch should support TACACS+, RADIUS accounting and RADIUS client, IEEE 802.1x multiple supplicant mode, Per port MAC address filtering, Layer 2/3/4/ Access Control Lists (ACLs), Per port MAC address limiting, MAC address security/lockdown, Guest VLANs																				
47.	RFP Vol II	350	10. Other Essential Feature: Support for IPv6 host, ICMPv6, Dual-stack IPv4/IPv6 management, IPv6 applications WEB/SSL, Static IPv4 routing 4K, RIPv1,v2, Proxy ARP, IEEE 802.3ad, ICMP, LLDP, DHCP snooping, DHCP option 82, DHCP relay, ICMP. The switch should have ECO Friendly design and operation.	10. Other Essential Feature: Support for IPv6 host, ICMPv6, IPv6 ACL, Dual-stack IPv4/IPv6 management, IPv6 applications WEB/SSL, IEEE 802.3ad, ICMP, LLDP, DHCP snooping, DHCP option 82, DHCP relay, ICMP. The switch should have ECO Friendly design and operation.																				
48.	RFP Vol II	350	12. Safety Certifications: EMI: FCC class A, CE, UL 60950-1, EN60950-1, EN60825 Etc. and Compliant with RoHS standards, NEMA –TS2	12. Safety Certifications: EMI: FCC class A, CE, UL 60950-1, EN60950-1, Etc. and Compliant with RoHS standards, NEMA –TS2																				
49.	RFP Vol II	351	1.1 Pan City Network Bandwidth <table border="1"> <thead> <tr> <th>#</th> <th>Line Item</th> <th>Unit of Measurement</th> <th>Indicative quantity</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>24 Core Optical Cable and required Access router, switches for last mile connectivity</td> <td>KM</td> <td>As required to cover pan city area including ABD</td> </tr> </tbody> </table>	#	Line Item	Unit of Measurement	Indicative quantity	1.	24 Core Optical Cable and required Access router, switches for last mile connectivity	KM	As required to cover pan city area including ABD	1.1 Pan City Network Bandwidth <table border="1"> <thead> <tr> <th>#</th> <th>Line Item</th> <th>Unit of Measurement</th> <th>Indicative quantity</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>24 Core Optical Cable and required Access router, switches for last mile connectivity</td> <td>KM</td> <td>As required to cover pan city area including ABD</td> </tr> <tr> <td>2.</td> <td>Internet Lease Line (1:1) at DC</td> <td>Gbps</td> <td>2</td> </tr> </tbody> </table>	#	Line Item	Unit of Measurement	Indicative quantity	1.	24 Core Optical Cable and required Access router, switches for last mile connectivity	KM	As required to cover pan city area including ABD	2.	Internet Lease Line (1:1) at DC	Gbps	2
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50.	RFP Vol II	355	67. Aggregate bandwidth at DC – Bandwidth – 5 Gbps	This stands deleted.																																								
51.	RFP Vol II	355	69. Leased circuit/bandwidth termination at field locations – Quantity - 100	This stands deleted.																																								
52.	RFP Vol II	381	22. MSI shall place orders on various OEMs directly and not through any sub-contractor / partner. All licenses should be in the name of the RSCCL.	22. MSI/ <b>Consortium Partners</b> shall place orders on various OEMs directly and not through any sub-contractor / <b>other</b> partner. All licenses should be in the name of the RSCCL.																																								