



## ROURKELA SMART CITY LIMITED

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Ref.: RFP. No. RSCL/110/2018/411, Dated: 12 July 2019

### Corrigendum # 1 of RFP

**This has reference to Request for Proposal (RFP) published on 12-07-2019 regarding “Selection of Master System Integrator (MSI) for Implementation of Smart Solutions in Rourkela”**

Following addition/ deletion/ modification(s) have been made to the RFP No. RSCL/110/2018/411 uploaded on e-Tendering website [www.tendersodisha.gov.in](http://www.tendersodisha.gov.in) on 12-07-2019:

#### Introduction to Corrigendum

The Guiding Principles of our RFP and our Corrigendum is to ensure broad participation.

Our Sub Section(s) on “Responsibility of MSI” specifies that the technical specifications are indicative in nature. Also these technical and functional specifications have been provided with the intent to ensure a minimum benchmark of standardized products on the basis of existing /expected workloads. These are to provide guidance and direction and are not expected to be prescriptive in nature.

To re-emphasize the same:

- a. The MSI has the option to address all the technical/functional requirements either with one or multiple solution (where applicable). The MSI is expected to depict compliance to all the functional and technical requirements along with detailing of the logical, functional and technical architecture by mapping of their BOM to the solution.
- b. The MSI may configure modules, interfaces and applicable peripherals for any technology product (as applicable) in a technically feasible and optimal manner, such that they comply with the functional technical and minimal sizing requirements as specified in the RFP.
- c. MSI is responsible for the overall SLA and scalability on the basis of their independent assessment of the requirements

SI. No.	Volume of RFP	RFP Section No.	RFP Section	Page No.	Existing Clause	Modified Clause
1	1	1.4	Important Dates & Fact sheet	3 & 6	Last date for submission of Bids online at www.tendersodisha.gov.in by 19th August 2019 at 5:00 PM	Last date for submission of Bids online at www.tendersodisha.gov.in by 26th August 2019 at 5:00 PM
2	1	1.4	Important Dates & Fact sheet	3 & 6	Last date for submission of hard copy of documents – 1 Original and 1 Copy + CD/DVD The Chief Executive Officer, Rourkela Smart City Limited, Udit Nagar, Rourkela-769012, Sundergarh, Odisha by 22nd August 2019 at 3:00 PM	Last date for submission of hard copy of documents – 1 Original and 1 Copy + CD/DVD The Chief Executive Officer, Rourkela Smart City Limited, Udit Nagar, Rourkela-769012, Sundergarh, Odisha by 29th August 2019 at 3:00 PM
3	1	1.4	Important Dates & Fact sheet	3 & 6	Date of opening of pre-qualification bids by 22nd August 2019 at 5:00 PM	Date of opening of pre-qualification bids by 29th August 2019 at 5:00 PM
4	1	2.29	Eligible Goods and Services, and OEM Criteria	24	Independent Software Vendor (ISV) shall have implementation base of minimum 3 similar projects globally (including India) in areas including ICC, DB, AI analytics, ERP etc.	This clause stands deleted.
5	1	4.1	Negotiations	29	<ul style="list-style-type: none"> <li>•The negotiations will be held at the date and address as informed by the Client.</li> <li>•The Client shall prepare minutes of negotiations which will be signed by the Client and the Bidder's authorized representative.</li> <li>•If the negotiations fail, the Client shall inform the first/highest ranking Bidder in writing of all pending issues and disagreements and provide a final opportunity to the first/highest ranking Bidder to respond. If disagreement persists, the Client shall terminate the negotiations informing the first/highest ranking Bidder of the reasons for doing</li> </ul>	<ul style="list-style-type: none"> <li>• The L1 bidder shall be invited for negotiations for awarding the contract. In case of a tie where two or more bidders achieve the same L1, the bidder with the higher Technical Score will be invited first for negotiations for awarding the contract.</li> <li>•The negotiations will be held at the date and address as informed by the Client.</li> <li>•The Client shall prepare minutes of negotiations which will be signed by the Client and the Bidder's authorized representative.</li> </ul>

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					so. Upon termination of the negotiations with the first/highest ranking Bidder, the Client may invite the next-ranked Bidder in terms of price to negotiate the Contract with the Client or annul the bid process, reject all Proposals and invite fresh Proposals. If the Client commences negotiations with the next best price Bidder, the Client shall not reopen the earlier negotiations.	
7	1	5. Pre-Qualification Criteria	#4 Bidder Standing	33	<p>The sole bidder OR the Lead bidder and each of the member of the Consortium, sub-contractor and OEMs (As per categories list given in Technical Bid Format, Section 2.12.2 – SI # 11) should not be blacklisted by any Central / State Government Department or Central/State Public Sector Units (PSUs) in India as on the bid submission date.</p> <p>Affidavit by the bidder (In case of Consortium to be provided by each member), sub-contractor and OEM Please refer to section 8.9</p>	<p>The sole bidder OR the Lead bidder and each of the member of the Consortium and sub-contractor should not be blacklisted by any Central / State Government Department or Central/State Public Sector Units (PSUs) in India as on the bid submission date.</p> <p>Affidavit by the Sole bidder / Lead Bidder (for itself and on behalf of other Consortium Members in case of a Consortium). Further, individual Consortium members and sub-contractor shall provide the declaration on their letterhead. Please refer to section 8.9</p>
8	1	5. Pre-Qualification Criteria	#6 Certifications	34	<p>The sole Bidder or any member in case of a Consortium, should possess any one of the below Certifications which are valid at the time of bid submission:</p> <ul style="list-style-type: none"> <li>• ISO 9001: 2015</li> <li>• ISO 20000:2011 for IT Service Management</li> <li>• ISO 27001:2013 for Information Security Management System</li> </ul>	<p>The sole Bidder or any member in case of a Consortium, should possess any one of the below Certifications which are valid at the time of bid submission:</p> <ul style="list-style-type: none"> <li>• ISO 9001: 2015</li> <li>• ISO 20000:2011 for IT Service Management</li> <li>• ISO 27001:2013 for Information Security Management System</li> </ul>

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						<ul style="list-style-type: none"> <li>CMMi level 3 or above</li> </ul>
9	1	5. Pre-Qualification Criteria	#13 Additional Certification	35	The sole bidder or any member in case of a consortium should have CMMi level 3 or above certification	This clause stands deleted.
10	1	8.9	Declaration of Non-Blacklisting	56	<p>&lt;&lt;To be provided by the bidder (In case of Consortium to be provided by each member), sub-contractor and OEM as per categories list given in Technical Bid Format, Section 2.12.2 – SI # 11&gt;&gt;</p> <p><i>[On a Stamp Paper of Rs. 100/- value and duly notarized]</i></p>	Refer to revised template for Section 8.9 as annexed below
11	1	9.14	Undertaking regarding availability of key expert	80	Undertaking regarding availability of key expert	Refer to revised template for Section 9.14 as annexed below
12	1	9.15, 10.5 (a)	Proposed Bill of Material   Data Centre & Price Sheet   Data Center	81 & 101	9) Blade Chassis - 4 Nos.	9) Blade Chassis - Min 4 or more as per requirement
13	1	9.15, 10.5 (a)	Proposed Bill of Material   Safety and Surveillance & Price Sheet   Safety and Surveillance	83 & 105	3) IR Illuminator - 369 Nos.	3) IR Illuminator - 304 Nos.
14	1	9.15, 10.5 (a), 10.5 (b)	Proposed Bill of Material   Safety and Surveillance & Price Sheet   Safety and Surveillance	83, 105 & 116	4) Mounting Rack (Industrial type) - as per requirement	This line item is deleted

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15	1	9.16	Manufacturers'/Producers' Authorization Form	86	Manufacturers'/Producers' Authorization Form	Refer to revised template for Section 9.16 as annexed below
16	1	10.5 (a)	Price Sheet   Data Center	103	49) Edge AI analytics software (Enterprise License)	49) AI analytics software (Enterprise License)
17	1	9.15, 10.5 (a), 10.5 (b)	Proposed Bill of Material   Traffic Violation Detection System & Price Sheet   Traffic Violation Detection System	84, 108 & 118	2) Overview/RLVD Camera with IR illuminator	2) Overview/RLVD Camera
18	2	Network connectivity on Lease	Network connectivity on Lease	19	The MSI shall in consultation with RSCL select a telecom operator who can provide the requisite city network backbone and managed infrastructure that will enable connectivity across all field devices, sensors, ICCC and DC & DR on lease basis	MSI shall select a telecom operator who can provide the requisite city network backbone and managed infrastructure that will enable connectivity across all field devices, sensors, ICCC and DC & DR on lease basis
19	2	ICCC/TR/2.02	Integrated Command & Control Centre   Video Display Wall	62	The native resolution of each Visual Display Unit / Rear Projection Module should be 1920 X 1080 pixels (Full HD) and should have LED as its light source	The native resolution of each Visual Display Unit / Rear Projection Module should be based on DLP and should have Laser as its light source.
20	2	ICCC/TR/2.04	Integrated Command & Control Centre   Video Display Wall	62	The native resolution of each Visual Display Unit / Rear Projection Module should be 1920 X 1080 pixels (Full HD) and should have LED as its light source.	The native resolution of each Visual Display Unit / Rear Projection Module should be based on DLP and should have Laser as its light source.
21	2	ICCC/TR/2.11	Integrated Command &	62	Analog D-sub/Ethernet/Digital DVI/Digital HDMI (as per solution)	Analog D-sub/Ethernet/Digital DVI/Digital HDMI/HD Base T (as per solution)

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			Control Centre   Video Display Wall			
22	2	ICCC/TR/5.06	Integrated Command & Control Centre   Monitoring Work Stations	65	HDD - Minimum 2 TB SATA-3 or latest Hard drive @7200 rpm with Flash Cache of 64GB SSD. Provision for installing 4 more drives.	HDD - Minimum 2 TB SATA-3 or latest Hard drive @7200 rpm with Flash Cache of 64GB SSD. Provision for installing Minimum 2 or more drives.
23	2	ICCC/TR/5.17	Integrated Command & Control Centre   Monitoring Work Stations	65	Security - BIOS controlled electro-mechanical internal chassis lock for the system.	Security - BIOS controlled electro-mechanical internal/external chassis lock for the system.
24	2	ICCC/TR/8.3	Integrated Command & Control Centre   Desktop	67	Processor - Intel Core i7-latest generation (3.0 Ghz) or higher OR AMD A10 7850B (3.0 Ghz) processor or higher OR Equivalent 64 bit x86 processor	Processor - Intel Core i7-latest generation OR latest AMD processor OR Equivalent 64 bit x86 processor.
25	2	ICCC/TR/8.12	Integrated Command & Control Centre   Desktop	67	Power Supply - Maximum Rating 250 Watts, 80 plus certified power supply	It should have minimum power, space and cooling requirement
26	2	ICCC/TR/9.3	Integrated Command & Control Centre   Laptop	68	Processor - Intel Core i7 with latest generation or higher (OR) AMD A10 PRO 7300 (1.9Ghz) Processor or higher (OR) Equivalent 64 bit x86 processor	Processor - Intel Core i7-latest generation OR latest AMD processor OR Equivalent 64 bit x86 processor.
27	2	ICCC/TR/11.4	Integrated Command & Control Centre   Fixed Dome Camera for Indoor Surveillance	69	1/3" Progressive Scan CCD / CMOS	1/2.8", progressive scan, CCD/CMOS or better
28	2	ICCC/TR/11.6	Integrated Command & Control Centre   Fixed Dome	69	Lens: Auto IRIS 2.8-10mm	Lens: Auto Iris, 2.8 ~ 12mm, automatic focusing and motorized zoom lens

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			Camera for Indoor Surveillance			
29	2	ICCC/TR/11.8	Integrated Command & Control Centre   Fixed Dome Camera for Indoor Surveillance	69	Minimum Illumination: Colour: 0.1 lux, B/W: 0.01 lux (at 30 IRE)	Minimum Illumination: Colour: 0.005Lux, 0Lux with IR
30	2	ICCC/TR/11.1 4	Integrated Command & Control Centre   Fixed Dome Camera for Indoor Surveillance	69	Audio: Full duplex, line in and line out, G.711, G.726	Audio: Full duplex, line in and line out, G.711/ G.726
31	2	ICCC/TR/11.2 1	Integrated Command & Control Centre   Fixed Dome Camera for Indoor Surveillance	69	Casing: NEMA 4X / IP-66 rated & IK 09	IP67 Rated & IK10
32	2	ICCC/TR/11.2 2	Integrated Command & Control Centre   Fixed Dome Camera for Indoor Surveillance	69	Certification: UL2802 / EN, CE ,FCC	Certification - UL/EN, CE, FCC as applicable
33	2	DCH/TR/3.22	Data Centre   Authentication, Authorization and Access (AAA)	110	Solution should have fully integrated support for Microsoft /Linux/Unix allowing health and posture checks on Windows endpoints without the need to install an agent	Solution should have fully integrated support for Microsoft /Linux/Unix allowing health and posture checks on Windows endpoints with/without the need to install an agent

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34	2	DCH/TR/3.28	Data Centre   Authentication, Authorization and Access (AAA)	110	The solution should allow for the complete separation of Authentication and Authorization sources. For example, authentication against Active Directory but authorize against Local database	The solution should allow for the Authentication and Authorization
35	2	DCH/TR/4.07	Data Centre   Web Security	113	Should apply security policy to more than 100 protocols in multiple categories more than 15. This includes the ability to allow, block, log, and assign quota time for IM, P2P, and streaming media and solution should provide at least below mentioned security categories as below right from first day <ul style="list-style-type: none"> <li>• Advanced Malware Command and Control category</li> <li>• Advanced Malware payload detection category</li> <li>• Malicious embedded links and iframe detection category</li> <li>• Mobile malware category</li> <li>• Key logger and Spyware category</li> <li>• P2P software database from day 1 to control/block the below P2P protocols</li> </ul>	Should apply security policy to more than 100 protocols in multiple categories more than 15 or equivalent. This includes the ability to allow, block, log, and assign quota time for IM, P2P, and streaming media and solution should provide at least below mentioned security categories as below right from first day <ul style="list-style-type: none"> <li>• Advanced Malware Command and Control category</li> <li>• Advanced Malware payload detection category</li> <li>• Malicious embedded links and iframe detection category</li> <li>• Mobile malware category</li> <li>• Key logger and Spyware category</li> <li>• P2P software database from day 1 to control/block the below P2P protocols</li> </ul>
36	2	DCH/TR/4.09	Data Centre   Web Security	113	Should provide inbuilt capability malicious content of password and unknown encryption files.	Should have inbuilt capability to scan encrypted traffic for malicious content
37	2	DCH/TR/7.02	Data Centre   Servers	118	No. of CPUs required currently: Min 8 cores using minimum 2 processor sockets, upgradable upto 2 when required	No. of CPUs required currently: Min 8 cores using minimum 2 processor sockets



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38	2	DCH/TR/7.08	Data Centre   Servers	118	Management console Port: Should support remote management via 100 Base T port LAN access and web console access functionally	Management console Port: Should support remote management via 100/1000 Base T port LAN access and web console access functionally
39	2	DCH/TR/7.20	Data Centre   Server Management	119	CPU: <ul style="list-style-type: none"> <li>• Latest Generation x86-64 Bit Minimum 2.20 GHz with min. 10 Core and 16MB Cache or more. Processor should be from latest announced series</li> <li>• Offered Server should be configured with at least 2 Processors</li> </ul>	This clause stands deleted
40	2	DCH/TR/7.26	Data Centre   Server Management	119	Server Connectivity to SAN: Should be capable of supporting 16 Gbps Dual port Fiber Channel HBA internal to the Server.	Server Connectivity to SAN: Should be capable of supporting 8 Gbps or more Dual port Fiber Channel HBA internal to the Server.
41	2	DCH/TR/7.27	Data Centre   Server Management	119	Bus Slots: Minimum of 2 Nos of x16 PCIe 3.0 based mezzanine slots supporting Converged Ethernet/Ethernet/ FC adapters/SAS adaptors with extra availability	Bus Slots: Minimum of 2 Nos PCIe slot on server or chassis
42	2	DCH/TR/8.01	Data Centre   Blade Chassis	119	Server Chassis/Enclosure should be able to accommodate minimum 8 numbers of blades.	Server Chassis/Enclosure should be able to accommodate minimum 4 numbers of blades
43	2	DCH/TR/8.03	Data Centre   Blade Chassis	120	RACK-U & Backplane: Should support up to 10U chassis. Redundant active backplane or passive backplane. Overall, it must ensure high availability all the time	RACK-U & Backplane: Should support up to 10U chassis with min 4 blade per chassis. It must ensure redundancy and high availability all the time

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44	2	DCH/TR/8.04	Data Centre   Blade Chassis	120	Power Supplies: Must be configured for redundant power supplies, fans. Necessary PDUs to be provided. Power supplies, fans should be capable of reconfigure without manual intervention	Chassis should have minimum power, space and cooling requirement and consumption.
45	2	DCH/TR/8.05	Data Centre   Blade Chassis	120	<p>Network Connectivity</p> <ul style="list-style-type: none"> <li>• Should have redundant 10Gbps L2/L3 Ethernet switching to connect all the blades to the LAN and should be configured to minimize the no. of ports in the external</li> <li>• Should be minimum 2*10 Gbps uplink ports &amp; 1G x 2 Ports from each 10Gbps switch to external LAN connectivity.</li> <li>• Should have support on enterprise L3 features supporting SDN,FC, FCOE,DCB &amp; Scalable to support 40G when required</li> <li>• Shall be capable of increasing the number of NICs per connection without adding extra Blade I/O modules, and reducing cabling uplinks to the data centre network</li> <li>• Shall be capable of providing 10x10Gbps uplinks to connect to other Standard Data Centre Ethernet switches</li> </ul>	<p>Network Connectivity</p> <ul style="list-style-type: none"> <li>• Should have redundant 10Gbps L2/L3 Ethernet/converged switching to connect all the blades to the LAN and should be configured to minimize the no. of ports in the external</li> <li>• Should be minimum 2*10 Gbps uplink ports &amp; 1G x 2 Ports from each 10Gbps switch to external LAN connectivity.</li> <li>• Should have support on enterprise L3 features supporting SDN, FC/ FCOE, DCB &amp; Scalable to support 40G when required</li> <li>• Shall be capable of providing 10x10Gbps uplinks to connect to other Standard Data Centre Ethernet switches</li> </ul>
46	2	DCH/TR/8.06	Data Centre   Blade Chassis	120	Should be configured with redundant hot pluggable management module to manage the blades using GUI	Should be configured with redundant / hot pluggable management module to manage the blades using GUI
47	2	DCH/TR/8.07	Data Centre   Blade Chassis	120	Fibre Connectivity : Should provide Redundant fibre switches with minimum 16 ports each to connect server to external SAN switch	Fibre Connectivity : Should provide Redundant fibre switch ports with minimum 2 external ports each to connect server to external SAN switch

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48	2	DCH/TR/9.07	Data Centre   DC Core Switch	122	Switch should support for stringent security policies based on time of day of Layer-2 to Layer-4	Switch should support Time based security policies of the day of Layer-2 to Layer-4
49	2	DCH/TR/12.03	Data Centre   Back-up Application	125	Support de-duplication at source and at target (disk) on any commodity storage volume. Based on policy backup software should be able to move data to a tape library automatically	Support de-duplication at source and at target (disk) on any commodity storage volume. Based on policy backup software should be able to move data to a tape/Disc library automatically
50	2	DCH/TR/12.06	Data Centre   Back-up Application	125	Should be able to backup any applications in online mode through online backup agents irrespective of the number of servers / CPUs, configuration of the servers , etc.	Should be able to backup any applications in online mode through online SAN based backups of databases through appropriate agents; Important Applications such as Database, webserver, application, emails irrespective of the number of servers / CPUs, configuration of the servers , etc.
51	2	DCH/TR/13.03	Data Centre Firewall for Internet and Intranet (from different OEM)	126	Support by the security gateway and VPN module: tokens (i.e. -Secure ID), TACACS, RADIUS and digital certificates. Should support Ethernet Bonding functionality for Full Mesh deployment architecture.	Support by the security gateway and VPN module: tokens (i.e. -Secure ID), TACACS/TACACS+, RADIUS and digital certificates. Should support Ethernet Bonding functionality for Full Mesh deployment architecture.
52	2	DCH/TR/15.03	Data Centre   Advanced Persistent Threat		Should integrate with the proposed Advance Endpoint Protection solution along with the proposed Network IPS and Web Proxy solution in an automated manner	Should integrate with the proposed security solutions in an automated manner.
53	2	DCH/TR/17.03	Data Centre   Industrial Ruggedized Switches	133	Power - Simultaneous 802.3at PoE+ support on all Copper Port	Power - Simultaneous 802.3at PoE/ PoE+ support on all Copper Port

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54	2	DCH/TR/17.04	Data Centre   Industrial Ruggedized Switches	133	VLAN support ( as per industry standard) <ul style="list-style-type: none"> <li>• Minimum 1024 active VLANS</li> <li>• Dynamic VLAN with VTP / MVRP</li> <li>• IP subnet VLAN</li> <li>• 802.1v</li> <li>• 802.1ad (q-in-q)</li> <li>• Private VLAN</li> </ul>	VLAN support ( as per industry standard) <ul style="list-style-type: none"> <li>• Minimum 256 active VLANS with VLAN ID range from 1 to 4094</li> <li>• Port based VLAN</li> <li>• IEEE 802.1q VLANs</li> <li>• MVRP/ GVRP to ease network planning</li> </ul>
55	2	DCH/TR/17.07	Data Centre   Industrial Ruggedized Switches	133	RADIUS (Authentication and Accounting), TACACs+ 3.0 , RMON I and II, DNS Server, Client and Proxy, Configurable LLDP-MED values	This clause stands deleted
56	2	DCH/TR/17.07	Data Centre   Industrial Ruggedized Switches	133	Support for RFC 2544	Support for RFC or Equivalent
57	2	DCH/TR/18.13	Data Centre   Online UPS-500 VA	134	Indicators & Metering: Indicators for AC Mains, Load on Battery, Fault, Load Level, Low Battery Warning, Inverter On, UPS on By- pass, Overload, etc. Metering for Input Voltage, Output Voltage and frequency, battery voltage, output current etc.	Indicators & Metering: Indicators for AC Mains, Load on Battery, Fault, Load Level, Low Battery Warning, Inverter On, UPS on By- pass, Overload, etc.  Metering for Input voltage, frequency, battery voltage, current etc.
58	2	DCH/TR/19.08	Data Centre   Server Load Balancer	135	Load balancer network function with minimum 15 Gbps of system throughput	This clause stands deleted

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59	2	DCH/TR/26.01	Data Centre   SIEM (Security Information and Event Management)	146	<ul style="list-style-type: none"> <li>• Should be capable to integrate/ encompass log, packet and end point data with added context and threat Intelligence</li> <li>• Should provide complete network visibility through deep packet inspection high-speed packet capture and analysis.</li> <li>• Solution should provide role based encryption and decryption up to field level devices with critical logs will be captured at any state of data (Rest, Move or Use)</li> </ul>	<ul style="list-style-type: none"> <li>• Should be capable to integrate/ encompass log/packet and end point data with added context and threat Intelligence</li> <li>• Should provide complete network visibility through deep packet inspection high-speed log/packet capture and analysis.</li> <li>• Solution should provide role based encryption and decryption up to field level devices with critical logs/packets will be captured at any state of data (Rest, Move or Use)</li> </ul>
60	2	DCH/TR/26.20	Data Centre   SIEM (Security Information and Event Management)	147	<p>Solution should be able to detect malicious payload in network traffic</p> <ul style="list-style-type: none"> <li>• Detect and reconstruct files back to its original type</li> <li>• Detect hidden or embedded files</li> <li>• Detect and flag out renamed files</li> </ul>	This clause stands deleted
61	2	DCH/TR/26.21	Data Centre   SIEM (Security Information and Event Management)	147	The solution should have the ability to capture network traffic and import PCAP files using the same infrastructure	This clause stands deleted

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62	2	DCH/TR/26.26	Data Centre   SIEM (Security Information and Event Management)	147	Solution should be able to support real time correlation based on min 15000 EPS which is 50% of total , historic correlation, Advance correlation, statistical correlation , application analytics through number of rules and use cases on same appliance or HW	Solution should be able to support real time correlation based on min 30,000 EPS which is 50% of total , historic correlation, Advance correlation, statistical correlation , application analytics through number of rules and use cases on same appliance or HW
63	2	DCH/TR/28.04	Data Centre   Application Encryption Solution	150	Encryption: AES, Format-preserving encryption FF3	Encryption: AES, Format-preserving encryption FF1/FF3
64	2	DCH/TR/28.05	Data Centre   Application Encryption Solution	151	Performance: 400,000 credit card size encryption transactions per second (e.g. single thread, 32 core, 16GB, C)	This clause stands deleted
65	2	DCH/TR/29.03	Data Centre   Data Encryption	152	<p>Application Encryption and Tokenization</p> <ul style="list-style-type: none"> <li>• The data protection solution should support format preserving tokenization &amp; encryption</li> <li>• The proposed tokenization and masking solution should provide REST API</li> <li>• The data masking solution should support <ul style="list-style-type: none"> <li>- dynamic masking through policy based masks</li> <li>- Teradata V14 and V14.1 database encryption with UDF</li> <li>- vaultless tokenization</li> <li>- vault based tokenization</li> <li>- gateway to encrypt data stored on S3 and Box</li> </ul> </li> </ul> <p>Should protect data at rest, motion and use</p>	<p>Application Encryption and Tokenization</p> <ul style="list-style-type: none"> <li>• The data protection solution should support format preserving tokenization &amp; encryption</li> <li>• The proposed tokenization and masking solution should provide SOAP,REST API</li> <li>•The data masking solution should support <ul style="list-style-type: none"> <li>- dynamic masking through policy based masks</li> <li>- Teradata V14 and V14.1 database encryption with UDF</li> <li>- Stateless tokenization</li> <li>- gateway to encrypt data stored on S3 and Box</li> <li>- Should protect data at rest, motion and use</li> </ul> </li> </ul>

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66	2	ATCS/TR/8.3	ATCS   Vehicle Detection Cameras	207	The machine vision system hardware shall consist of three components: •Camera based vehicle detection shall be provided consisting of black & white detection camera, 640x480 resolution, 20 FPS minimum frame rate, day -night cameras. • A modular cabinet interface unit • A communication interface panel	The machine vision system hardware shall consist of three components: •Camera based vehicle detection shall be provided consisting of minimum 2520x1980 or equivalent resolution, day night cameras with color in day and monochrome at night • A modular cabinet interface unit • A communication interface panel
67	2	ATCS/TR/8.4	ATCS   Vehicle Detection Cameras	207	The lens type shall be wide angle lens for stop line detection up to 4 lanes minimum	This clause stands deleted
68	2	TVDS/TR/1.3	TVDS   Automatic Number Plate Recognition	220	Shutter speed : 1s-1/30,000s	Shutter speed : 1s to 1/1,00,000s or better
69	2	TVDS/TR/1.19	TVDS   Automatic Number Plate Recognition	220	Security - User Authentication, Watermark, IP address filtering	Security - User Authentication, IP address Filtering
70	2	TVDS/TR/1.25	TVDS   Automatic Number Plate Recognition	220	Protection Level : IP66 and IK10	Protection Level : IP 67 and IK 10
71	2	TVDS/TR/1.28	TVDS   Automatic Number Plate Recognition	220	IR Distance : 50m or more (External only)	IR Distance : 100m or more (Internal/External)
72	2	TVDS/TR/2.13	TVDS   Red Light Violation Detection	221	Audio : Audio Capture Capability, G.711, G.726	Audio : Audio Capture Capability, G.711/G.726
73	2	TVDS/TR/2.18	TVDS   Red Light Violation Detection	221	Casing : NEMA 4X / IP-66, IK10 rated	Casing : IP67 and IK10

Sl. No.	Volume of RFP	RFP Section No.	RFP Section	Page No.	Existing Clause	Modified Clause
74	2	Safety/FR/2.09	Safety & Surveillance   Cameras	234	<p>The city wide surveillance system needs to have the capability to deploy intelligent video analytics software on any of selected cameras. This software should have the capability to provide various alarms &amp; triggers. The solution should offer following triggers from Day1:</p> <ul style="list-style-type: none"> <li>• Parking Violation</li> <li>• Wrong Direction</li> <li>• People loitering</li> <li>• Unattended Object</li> <li>• Crowd detection</li> <li>• People tracking</li> </ul>	<p>The city wide surveillance system needs to have the capability to deploy AI based video analytics software on any of selected cameras. This software should have the capability to provide various alarms &amp; triggers. The solution should offer following triggers from Day1:</p> <ul style="list-style-type: none"> <li>• Parking Violation</li> <li>• Wrong Direction</li> <li>• People loitering</li> <li>• Unattended Object</li> <li>• Crowd detection</li> <li>• People tracking</li> </ul>
75	2	Safety/FR/3.01	Safety & Surveillance   Facial Recognition System	234	<p>The facial recognition system should be able to integrate with IP Video Cameras as required in the solution and shall be able to identify multiple persons of interest in real-time, through leading-edge face recognition technology. The system shall be able to recognize subjects appearing simultaneously in multiple live video streams retrieved from IP surveillance cameras. The Facial recognition system should seamlessly be integrated to the network video recorders and the video management system.</p>	<p>The facial recognition system should be able to integrate with IP Video Cameras as required in the solution and shall be able to identify multiple persons of interest in real-time, through leading-edge AI based face recognition technology. The system shall be able to recognize subjects appearing simultaneously in multiple live video streams retrieved from IP surveillance cameras. The Facial recognition system should seamlessly be integrated to the network video recorders and the video management system.</p>
76	2	Safety/TR/1.14	Safety & Surveillance   PTZ Camera	250	Casing - NEMA 4X / IP 66 rated	Casing - IP67 Rated & IK10



Sl. No.	Volume of RFP	RFP Section No.	RFP Section	Page No.	Existing Clause	Modified Clause
77	2	Safety/TR/2.16	Safety & Surveillance   Fixed Camera	251	Casing - NEMA 4X / IP 66 rated	Casing - IP67 Rated & IK10
78	2	Safety/TR/4.05	Safety & Surveillance   Network Video Recorder (NVR)	251	The NVRs shall be support interface using 10/100/1000BaseTX. It shall support a total throughput of at least 700 Mbps	The NVRs shall be support interface using 10/100/1000BaseTX. It shall support a total throughput of at least 512 Mbps
79	2	Safety/TR/4.07	Safety & Surveillance   Network Video Recorder (NVR)	251	Each NVR unit shall be Minimum of 4U height.	Each NVR unit shall be Minimum of 2U or more height
80	2	Safety/TR/4.11	Safety & Surveillance   Network Video Recorder (NVR)	251	The NVR shall support a minimum of 200 recorded video streams and 20 playback streams with minimum playback of 400 Mbps	The NVR shall support a minimum of 200 recorded video streams and 20 playback streams with minimum playback of 512 Mbps
81	2	Safety/TR/4.12	Safety & Surveillance   Network Video Recorder (NVR)	252	Normal state (non-alarm) recording configuration to provide for "Detection" as defined by ULC-317-1997 and as follows: <ul style="list-style-type: none"> <li>• Resolution HD</li> <li>• Normal Frame rate of 25 FPS</li> </ul>	Normal state (non-alarm) recording configuration to provide for "Detection" as defined by ULC and as follows: <ul style="list-style-type: none"> <li>• Resolution HD</li> <li>• Normal Frame rate of 25 FPS</li> </ul>
82	2	Safety/TR/4.13	Safety & Surveillance   Network Video Recorder (NVR)	252	Alarm state recording configuration to provide for "Recognition" as defined by ULC-317-1997 and as follows: <ul style="list-style-type: none"> <li>• Resolution of HD</li> <li>• Frame rate of 25 FPS</li> <li>• Alarm state recording of one track of audio at 32 Kbit</li> </ul>	Alarm state recording configuration to provide for "Recognition" as defined by ULC and as follows: <ul style="list-style-type: none"> <li>• Resolution of HD</li> <li>• Frame rate of 25 FPS</li> <li>• Alarm state recording of one track of audio at 32 Kbit</li> </ul>

Sl. No.	Volume of RFP	RFP Section No.	RFP Section	Page No.	Existing Clause	Modified Clause
83	2	Wifi/TR/3.01	Wi-Fi   Key features of Wi-Fi Controllers	276	The WLAN controllers should be, capable of managing at least 1500 Wireless AP and should be scalable as and when required.	The WLAN controllers should be, capable of managing at least 300 Wireless AP and should be scalable up to 1000 as and when required.
84	2	Wifi/TR/3.05	Wi-Fi   Key features of Wi-Fi Controllers	276	Should have at least 4 x 10 Gigabit Ethernet interface.	Should have at least 2 x 10 Gigabit Ethernet interface.
85	2	Wifi/TR/3.11	Wi-Fi   Key features of Wi-Fi Controllers	277	WLC should support AC and DC powering options.	WLC should support AC or DC powering options.
86	2	AIML/TR/1.1	Artificial Intelligence based analytics, Machine Learning   AI based Video Analytics System	302	Have operating temperature range as per City requirement to withstand outdoor operating environment as per city conditions	This clause stands deleted
87	2	Implementation Schedule and Payment Terms	Payment Terms	306	<p>Project Payment Schedule</p> <p>Project Inception Report (T + 1 Month) - 5% of CAPEX</p> <p>Requirement Study (T + 3 Months) - 5% of CAPEX</p> <p>Hardware Delivery &amp; commissioning of Temporary ICC &amp; DC (T + 5 Months) - 40% of CAPEX (Payment shall be made on a pro-rata basis based on the modules defined in the Scope of Work of the RFP)</p> <p>Phase I: Go Live (T + 6 Months) - 15% of CAPEX</p> <p>Phase II: Go Live (T + 9 Months) - 15% of CAPEX</p> <p>Phase III: Go Live (T1) (T + 12 Months) - 10% of CAPEX</p>	<p>Project Payment Schedule</p> <p>Project Inception Report (T + 1 Month) - 5% of CAPEX</p> <p>Requirement Study (T + 3 Months) - 5% of CAPEX</p> <p>Hardware Delivery &amp; commissioning of Temporary ICC &amp; DC (T + 5 Months) - 50% of CAPEX (Payment shall be made on a pro-rata basis based on the modules defined in the Scope of Work of the RFP)</p> <p>Phase I: Go Live (T + 6 Months) - 10% of CAPEX</p> <p>Phase II: Go Live (T + 9 Months) - 10% of CAPEX</p> <p>Phase III: Go Live (T1) (T + 12 Months) - 10% of CAPEX</p>

Sl. No.	Volume of RFP	RFP Section No.	RFP Section	Page No.	Existing Clause	Modified Clause
					<p>3 Months after successful completion of Project Final Go-Live (T1 + 3 Months) - 10% of CAPEX</p> <p>Project Operations &amp; Maintenance phase for a period of 60 months from the date of Final Go Live (T1 + 60 Months) - OPEX will be paid in twenty (20) equal quarterly instalments spread across 5 years Post Final Go-Live</p>	<p>3 Months after successful completion of Project Final Go-Live (T1 + 3 Months) - 10% of CAPEX</p> <p>Project Operations &amp; Maintenance phase for a period of 60 months from the date of Final Go Live (T1 + 60 Months) - OPEX will be paid in twenty (20) equal quarterly instalments spread across 5 years Post Final Go-Live</p>
88	3	20.13	MSI's Obligations	10	It must clearly be understood by MSI that warranty and O&M of the System, products and services incorporated as part of System would commence from the day of Go-Live of the System as complete Smart city solutions including all the solutions proposed.	It must clearly be understood by MSI that warranty and O&M of the System, products and services incorporated as part of System would commence from the day of Go-Live.
89	3	Annexure II	Form of Agreement	73	Form of Agreement This Agreement made on the ..... date of ..... 2018,	Form of Agreement This Agreement made on the ..... date of ..... <<Insert Year>>,

## 8.9. Bidder Standing

### Declaration of Non-Blacklisting

<<Affidavit by the Sole bidder / Lead Bidder (for itself and on behalf of other Consortium Members in case of a Consortium).

[On a Stamp Paper of Rs. 100/- value and duly notarized]

<<Individual Consortium members and sub-contractor shall provide the declaration on their letterhead>>

I M/s. ...., (the name of the Sole Bidder/ Lead Bidder along with <<insert name of Consortium Members, in case of a consortium>> /Sub-contractor) and addresses of the registered office hereby certify and confirm that we are not barred or blacklisted by any Central / State Government Department or Central / State PSUs globally from participating in any project or being awarded any contract, either individually or as member of a consortium and no such bar or blacklisting subsists as on the Proposal Due Date.

We further confirm that we are aware our Proposal for the Master System Integrator (MSI) for Implementation of Smart Solutions in Rourkela would be liable for rejection in case any material misrepresentation is made or discovered with regard to the requirements of this RFP at any stage of selection and/or thereafter during the term of the Contract.

Dated this .....Day of ....., 201.....

**NAME OF THE BIDDER/SUB-CONTRACTOR**

.....

**SIGNATURE OF THE AUTHORISED PERSON**

.....

**NAME OF THE AUTHORISED PERSON**

**9.14. Undertaking regarding availability of key expert**

To,  
**Chief Executive Officer,**  
*Rourkela Smart City Limited,*

Dated:

\_\_\_\_\_  
\_\_\_\_\_

Dear Sir,

**Sub:** Request for Proposal for Selection of Master System Integrator (MSI) for Implementation of Smart Solutions in Rourkela

We refer to the RFP dated [●] issued by you for Selection of Master System Integrator (MSI) for Implementation of Smart Solutions in Rourkela.

We, M/s ..... [**Insert name of the Lead Bidder/ Consortium Member**] confirm that the Key Experts named below are the employees of the <<Insert name of the Lead Bidder/Consortium Member>> on the proposal due date:

- 1. ....
- 2. ....
- 3. ....

If selected as the successful Bidder, we undertake that the Key Experts mentioned above would be available and will provide their best services for the duration of the Contract, in accordance with the terms of the RFP and the Contract.

We further confirm that we are aware our Proposal for the Master System Integrator (MSI) for Implementation of Smart Solutions in Rourkela would be liable for rejection in case any material misrepresentation is made or discovered with regard to the requirements of this undertaking at any stage of selection and/or thereafter during the term of the Contract.

Dated this .....Day of ....., 201....

**Name of the Bidder**

.....

**Signature of the Authorised Person**

.....

**Name of the Authorised Person**

Date:

Place:

**9.16. Manufacturers'/Producers' Authorization Form**

*(This form has to be provided by the OEMs of the hardware and software solutions proposed as per format or a similar format capturing the relevant information provided below. This letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to bind the manufacturer.)*

Date:

To,

[                      ],

Subject: Manufacturer's Authorization Form

Ref: RFP No. <<.....>> dated << .....>>

Dear Sir,

We\_\_\_\_\_ (Name of the OEM) who are established and reputable manufacturers of\_\_\_\_\_ (List of Goods) having factories or product development centres at the locations\_\_\_\_\_ or as per list attached, do hereby authorize. \_\_\_\_\_ (Name and address of the Bidder) to bid, negotiate and conclude the contract with you against RFP No.\_\_\_\_\_. Dated \_\_\_\_\_ for the above goods manufactured or developed by us.

We hereby extend, our warranty for the hardware goods supplied by the bidder and or maintenance or support services for software products against this invitation for bid by\_\_\_\_\_ (Name of the Bidder) as per requirements and for the duration of contract as specified in this RFP.

Further, we declare that we meet the following criteria (as applicable) detailed below:

- Products or technology quoted are neither end-of-sale nor end-of-life as on the date of installation and commissioning and are not end-of-support till the successful completion of O&M period of the project.
- We have not have been blacklisted by any State / Central Government Department or Central /State PSUs.
- We have not filed for bankruptcy and are profitable for at least last 2 consecutive financial years.
- We have quality standard certifications viz. ISO 9001-2015 or ISO 14001 or ISO 27001, or ISO 20000 as applicable, as on date of RFP release.
- We (OEM for the all active network, security, storage) have a registered office in India and have been directly present for last 7 years, from date of RFP publication. We also have a development center in India.
- We (OEM for the Command Control Software/ Platform) have a registered office in India and have been directly present for last 3 years, from date of RFP publication. We also have a development center in India.
- We (OEM for Command Control Software/Platform) have deployed at least 1 Smart City solution in India. In addition, we have deployed similar solution in 2 or more locations globally (including India).
- We have an installed base of at least 20% of the quantities proposed in the BoM for the quoted product or technology globally (including India).

Thanking you,

Yours faithfully,

(Signature)

RFP for Selection of MSI for Smart Solutions Project in Rourkela

For and on behalf of: \_\_\_\_\_ (Name of the OEM)

Authorised Signatory

Name:

Designation:

Place:

Date: