

KAKINADA SMART CITY CORPORATION LIMITED

Name of the work : Request For Proposal for Selection of System Integrator to Implement Smart City Solutions

RFP NO: KSCCL/SYSTEM INTEGRATOR/2016 dated 19-12-2016

CORRIGENDUM - 2 : Dt. 04 - 02 - 2017

S.No.	RFP Volume	Page	Clause No.	As per RFP	As Corrected/Modified/Addition/Deletion
1	Vol 1	ii	Key dates	Last date and time for Online receipt of bids, date:15-02-2017,Time:17:00 Hrs	Last date and time for Online receipt of bids, date: 23-02-2017,Time:17:00 Hrs
2	Vol 1	ii	Key dates	Last date and time for Physical receipt of bids, date:17-02-2017,Time:11:00 Hrs	Last date and time for Physical receipt of bids, date: 25-02-2017,Time:11:00 Hrs
3	Vol 1	ii	Key dates	Date and time of opening of Technical bids date:17-02-2017,Time:11:30 Hrs	Date and time of opening of Technical bids date: 25-02-2017,Time:11:30 Hrs
4	Vol 1	1	8	Introduction	1 Introduction
5	Vol 1	1	8.2	About KSCCL	1.1
6	Vol 1	1	1.2	Development of a robust ERP system to optimize internal operations and enhance citizen delivery.	Integration of a developed ERP system to CCC to optimize internal operations and enhance citizen delivery.
7	Vol 1	6	2.2	Eligible Bidders: Should be registered in India under Companies Act 1956/2013	Should be registered in India under Companies Act 1956/2013 or LLP Act 2008 or as amended.
8	Vol 1	6	2.2	One of the consortium member should lead the consortium and should be registered in India under Companies Act 1956/2013.	One of the consortium member should lead the consortium and should be registered in India under Companies Act 1956/2013 or LLP Act 2008 or as amended.
9	Vol 1	6	2.2	All the consortium members are equally responsible and jointly & severally liable under this RFP for o The delivery of products & services o Successful completion of this entire Project Meeting the SLAs	The delivery of products & services comes under their specific scope of work o The overall responsibility of successful completion of the entire Project with SLA's lies with the lead bidder.
10	Vol 1	6	Foot note	New addition	Only those members of JV consortium (lead Member and as well as JV Partners) who have not applied / availed CDR nor have been subjected to SDR during the last 5 (Five) financial years are eligible to participate in the bid. A certificate to that effect from a Registered Chartered Accountant shall be uploaded by the Bidder.

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11	Vol 1	8	2.7 & 2.8	RFP Document Fee and EMD	All the government agencies/ undertakings participating in the bid are exempted from payment of RFP Document fee and EMD.
12	Vol 1	8	2.8	EMD	BG shall be valid for a period of 180 days from the date of submission of bid.
13	Vol 1	9	2.9	Bid Validity Period Bid shall remain for the time period mentioned in the Fact Sheet	Bid Validity Period Bid shall remain for a period 90 days. If required by the department, the bidder should extend the validity period. If any bidder rejects to extend the bid, their bid will not be considered for further evaluation.
14	Vol 1	19	2.29	ANPR Solution Should have been operational for min. 50 ANPR cameras in City/outdoor CCTV Surveillance projects across India in last 3 years. Out of these projects at least one project should have min. 25 ANPR camera running on the offered ANPR solution.	ANPR Solution Should have been operational for min. 50 ANPR cameras in City/outdoor CCTV Surveillance projects in any country in last 3 years. Out of these projects at least one project should have min. 25 ANPR camera running on the offered ANPR solution.
15	Vol 1	19	2.28	Bidders are encouraged to include Micro, Small and Medium Enterprises (MSMEs) in the delivery of the project. Bidders should earmark a minimum of 20% of the total contract for procuring goods and services from MSEs.	Bidders are encouraged to include Micro, Small and Medium Enterprises (MSMEs) in the delivery of the project as per norms applicable.
16	Vol 1	26	3.5 Sl.4	(ii) Proof of the Projects undertaken work order and partial (85% completion of project scope) / final financial completion certificate from client.	Proof of the Projects undertaken and partial (85% completion of project scope) / final financial completion certificate from client.
17	Vol 1	27	3.5 Sl.4	Pre Qualification Criteria Smart Elements Project include Command & Communications / Control, City Surveillance System, RED Light Violation detection System/Environmental Sensors/ Public Address System /Emergency Box/ Variable Messaging Displays/ GPS based vehicle tracking system/ Smart Data Centre /Disaster recovery	Pre Qualification Criteria Smart Elements Project include Command & Communications / Control, City Surveillance System, RED Light Violation detection System/Environmental Sensors/ Public Address System /Emergency Box/ Variable Messaging Displays/ GPS based vehicle tracking system/ Smart Data Centre /Disaster recovery & Public Wifi
18	Vol 1	27	3.5 Sl.5	Pre Qualification Criteria: New Addition	Refer Addendum_1
19	Vol 1	27	3.5 Sl.6	Pre Qualification Criteria: New Addition	The sole bidder OR the Lead bidder in case of consortium, should possess any two of the below Certifications which are valid at the time of bid submission. <ul style="list-style-type: none"> • ISO 9001 • ISO 20000:2011 for IT Service Management • ISO 27001: 2005 for Information Security

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20	Vol 1	27	3.5 Foot note		The sole bidder OR the Lead bidder and each of the member of the Consortium should never be blacklisted by any Central / State Government Department or Central/State Public Sector Units (PSUs) as on the bid submission date and necessary notarised declaration on Rs.100/- stamp paper shall be enclosed as per Annexure-II Cl. 6.4
21	Vol 1	28	3.6	Technical Evaluation Criteria: Bidders to submit work order and end client work in progress (minimum 85% project completion) / completion certificate as a supporting document for each project.	Bidders must submit work in progress (minimum 85% project completion) / completion certificate as a supporting document for each project from the client.
22	Vol 1	28	3.6	Technical Evaluation Criteria: Foot note New Addition	If the bidder / consortium fails to submit/enclose completion certificate/ work in progress with minimum 85% project completion certificate from the end client, then it is presumed that the consortium/ bidder does not have the relevant work experience as desired in the RFP.
23	Vol 1	31	3.6.1 B	B4. Environmental Sensors: Each project of 20 sensors or more will be considered as one unit	B4. Environmental Sensors: Each project of 3 sensors or more will be considered as one unit
24	Vol 1	31	3.6.1 B	B5. Integration with Smart Utility Solutions.	Refer Addendum_1 for revised scope
25	Vol 1	33	3.6.1 B	B8. ERP System	Refer Addendum_1 for revised scope
26	Vol 1	33	3.6.1 B	B9. New Addition-WiFi Access Points	Refer Addendum_1 for revised scope
27	Vol 1	33	3.6.1 C	Technical Complaine of Command & Communication Center ERP Solutions and Project Experience	Technical Complaine of Command & Communication Center and Project Experience and Refer Addendum_1 for revised scope
28	Vol 1	36	3.6.1 D	Demonstration of CCC and ERP , Live projects	Demonstration of CCC Live projects

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29	Vol 1	42	6.1	Pre qualification check list	Refer Addendum_1
30	Vol 1	67	7.9	Proposed Bill of Material	Revised Bill Of Material included in Addendum_1
31	Vol 1	78	7.9	Additional Clause:	The Bill of Material mentioned is an indicative list and can increase/ decrease by 15%-20%. The exact quantity will be ascertained by the successful bidder after site survey and detail project plan should be should be submitted for the same.
32	Vol 1	78	7.9	Additional Clause:	Scope of the work can increase by 15% -20% in future. In case of increase of scope, KSCCL will issue additional work order / purchase order for additional scope on the same price, terms and conditions as specified in the contract/agreement to the selected SI after due diligence and satisfactory performance of the selected bidder. All such additional work orders will be executed only after mutual consent of both the parties
33	Vol 1	81	8.1	Total Price Summary	Revised Price Summary included in Addendum_1
34	Vol 1	82	8.2	Price component for CAPEX	Revised Price Component for Capex included in Addendum_1
35	Vol 1	99	8.3	Price component for OPEX	Revised Price Component for Opex included in Addendum_1
36	Vol 1	100	8.3	Price component for OPEX: RFP for System Integrator for Implementation of Greater Visakhapatnam Smart City Solutions	Price component for OPEX: RFP for System Integrator for Kakinada Smart City Solutions
37	Vol 2	7	2.0	Scope of Project Work	For revised scope of work refer Addendum_1
38	Vol 2	8	2.2	Project Deliverables, Milestones & Timelines	Revised Project Deliverables, Milestones & Timeslines are mentioned in Addendum_1
39	Vol 2	10	2.4	Payment Schedule	Revised Payment Schedule is mentioned in Addendum_1
40	Vol 2	11	3.0	Additional Information: Kakinada Smart City Architecture	Refer Addendum_1

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41	Vol 2	13		Supporting PKI based Authentication and Authorization mechanisms: The solution shall support PKI based Authentication and Authorization mechanisms, in accordance with IT Act 2000, using the Digital Certifications issued by the Certifying Authority (CA). In particular, three types of authentications, viz., login id & password, biometric and digital signature are required to be implemented by SI for officials/employees involved in the operation of e-Gov. solutions and other sensitive and secured operations.	Clause is deleted
42	Vol 2	15	I, II, III, IV, V, VI, VII, VIII	SI shall design and develop the Smart Kakinada City System as per the Functional and System requirement specifications finalized and as approved by the authority. I. The Modules specified will be developed afresh based on approved requirements. II. Apart from this, if some services are already developed/under development phase by the specific department, such services are required to be integrated with the Smart Kakinada City System. These services will be processed through department specific Applications in the backend. III. The user of citizen centric services should be given a choice to interact with the system in the local language in addition to English. The application should have provision for uniform user experience across the multi-lingual functionalities covering following aspects: • Front end web portal in English and also in local language. • e-forms (Labels & Data entry in local languages). Data entry should be provided preferably using the Enhanced Inscript standard (based on Unicode version 6.0 or later) keyboard layout with option for provision of floating keyboard. • Storage of entered data in local language using UNICODE (version 6.0 or later) encoding standard. • Retrieval & display in local language across all user interfaces, forms and reports with all browsers compliant with Unicode version 6.0 and above. • Facility for bilingual printing (English and Telugu) IV. Application should have a generic workflow engine for citizen centric services. This generic workflow engine will allow easy creation of workflow for new services. At the minimum, the workflow engine should have the following features:	Scope of the work is modified. Refer addendum _1

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				<ul style="list-style-type: none"> • Feature to use the master data for the auto-populating the forms and dropdowns • Creation of application form, by “drag & drop” features using meta data standards <ul style="list-style-type: none"> i. Defining the workflow for the approval of the form ii. Submitted applications of Citizens to be considered for processing in First in First out or as per priorities assigned. iii. Defining citizen charter/delivery of service in a time bound manner • Generation of the “output” of the service, i.e. Certificate, approval Order, etc., Automatic reports of compliance to citizen charter on delivery of services and delay reports <p>Standards adopted should comply with:</p> <ul style="list-style-type: none"> a) with the published latest e-Governance standards, frameworks, policies and guidelines available on http://egovstandards.gov.in; and b) leading industry standards and/or as per standards mentioned at Annexure –XI. <p>V. The application should have a module for management of digital signature including issuance, renewal and suspension of digital signatures based on the administrative decisions taken by the State.</p> <ul style="list-style-type: none"> • SI shall ensure usage Digital signatures/e-Authentication (Aaadhaar Based) to authenticate approvals for service requests etc. <p>VI. e-Transaction & SLA Monitoring Tools</p> <p>A. The SI should be able to measure and monitor the performance of the deployed infrastructure and all SLAs set out in this RFP. More importantly, it should be possible to monitor in REALTIME, the number of citizens accessing e-Services in a day, month or year, through appropriate tools and MIS reports</p>	

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				<p>reports.</p> <p>B. The Infrastructure management and Monitoring System shall be used by SI to monitor the infrastructure (Both IT and Non-IT) hosted at the Data center and DR site.</p> <p>C. For monitoring of uptime and performance of IT and non-IT infrastructure deployed, the SI shall have to provision for monitoring and measurement tools, licenses, etc. required for this purpose.</p> <p>VII. The Smart Kakinada City solution should have roadmap to integrate with key e-Gov initiatives of the State, namely, Portal Services, Citizen help desks, Certifying Authority, etc.</p> <p>VIII. Mobile enablement of all the Smart Kakinada City e-Gov. solutions.</p>	
43	Vol 2	17	SI No. 24 v	Size and provision for bandwidth as a service for operations of Kakinada City wide WiFi, Kakinada City Kiosks , CCTV surveillance till operationalization of network backbone	Size and provision for bandwidth as a service for operations of Kakinada City wide WiFi, CCTV surveillance till operationalization of network backbone
44	Vol 2	19	1. ERP (Section 4.1, 4.2, 4.3, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12, 4.13, 4.14 in Vol 2)	1. ERP (Section 4.1, 4.2, 4.3, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12, 4.13, 4.14 in Vol 2)	Scope of the work is modified. Refer addendum _1
45	Vol 2	45	4.15	Kakinada City Network System: Additional Information:	Refer Addendum_1
46	Vol 2	45	4.15.1	Kakinada City Network System: Revised Specs	Refer Addendum_1
47	Vol 2	47	e.2	Identified aggregation points as mentioned in ANNEXURE V. These are mostly Authority zonal offices and tentatively identified government office buildings. A minimum of 10 such aggregation points are being considered. SI may estimate and propose the number of aggregation points as per requirements.	Identified aggregation points as mentioned in ANNEXURE V. These are mostly Authority zonal offices and tentatively identified government office buildings. A minimum of 4 such aggregation points are being considered. SI may estimate and propose the number of aggregation points as per requirements.
48	Vol 2	47	e.3	Aggregation points to be identified by SI based on network load and geographical coverage. A Minimum of 10 rings for access layers to be considered by SI. These may overlap in order to provide required redundancy.	Aggregation points to be identified by SI based on network load and geographical coverage. A Minimum of 6 rings for access layers to be considered by SI. These may overlap in order to provide required redundancy.

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49	Vol 2	49	3.a	The core backbone shall be established using 24 Core Optical Fiber Cables.	The core backbone shall be established using 96 Core Optical Fiber Cables.
50	Vol 2	49	3.f, 4.e, 5.f	There shall not be more than one Splice, Joint closures installed between two (2) locations, during hand over of Network to Authority.	Splice and joint closures points to be as per 2Km Fiber Cable drum to be considered being a city area.
51	Vol 2	49	3.g	All the 24 cores shall be spliced & joined in the Core Backbone.	All the 96 cores shall be spliced & joined in the Core Backbone.
52	Vol 2	49	4.a	The Aggregation rings shall be established using 24 Core Optical Fiber Cables.	The Aggregation rings shall be established using 96 Core Optical Fiber Cables.
53	Vol 2	49	4.f	f. All the 24 cores shall be spliced & joined in the Zonal Aggregation Backbone ring.	f. All the 48 cores shall be spliced & joined in the Zonal Aggregation Backbone ring.
54	Vol 2	53	e	On Ducted Routes: Optical fiber cables may be laid through the existing ducts wherever the concrete ducts are available. As far as possible the cable may be diverted to the new ducts laid subsequently. When the cables are laid in ducts, no particular depth is prescribed. End of the ducts shall be properly sealed and necessary protection by way of W.I. pipe/RCC pipe shall be provided at the entry and exit of the duct till the cable is buried to a depth of 1.5 m.	On Ducted Routes: Optical fiber cables may be laid through the existing ducts wherever the concrete ducts are available. As far as possible the cable may be diverted to the new ducts laid subsequently. When the cables are laid in ducts, no particular depth is prescribed. End of the ducts shall be properly sealed and necessary protection by way of DWC Pipe (75mm) shall be provided at the entry and exit of the duct till the cable is buried to a depth of 1.5 m.
55	Vol 2	55	4.15.3	New Addition	Refer Addendum_1
56	Vol 2	56	4.16.2 & Annex J	Kakinada City Wifi Connectivity: New Information	Refer Addendum_1
57	Vol 2	56	m	New users should be given the free access of say 50/100 MB to use limited services (for better interaction with the Government and availing citizen services) for subscribing the available plans.	Clause is deleted
58	Vol 2	61	4.17.4	Thermal Camera 3. Drone 4. Mobile Surveillance Vehicle	Deleted
59	Vol 2	61		Data retention period: 90 days	Data retention period: 60 days
60	Vol 2	61		5. Between drone ground station / mobile surveillance vehicle & Data center	Deleted

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61	Vol 2	61		3. Set up of DR site with 100% redundancy of infrastructure.	3. Set up of DR site with redundancy of critical data which will be between 20 to 30% and will be decided by the KSCCL during implementation
62	Vol 2	64	e	Chambers with metal cover at every junction box, pole and at road crossings	Chambers with RCC cover at every junction box, pole and at road crossings
63	Vol 2	66	4.17.6 d	The system shall contain an IP based amplifier and uses PoE power that could drive the speakers. The system shall also contain the control software that could be used to control/monitor all the components of the system that includes Controller, Calling Station & keypad, Amplifier (Mixing & Booster).	The system shall contain an IP based amplifier and may use PoE power that could drive the speakers. The system shall also contain the control software that could be used to control/monitor all the components of the system that includes Controller, Calling Station & keypad, Amplifier (Mixing & Booster).
64	Vol 2	67	2	<ul style="list-style-type: none"> • Minimum 2 Speaker, to be used in different directions • Minimum 200 Watts of amplification 	<ul style="list-style-type: none"> • Minimum 2 Speaker, to be used in different directions • Minimum 200 Watts of amplification • Minimum 20W Speakers to be used
65	Vol 2	69	4.17.7 11	11. Language Multilingual (Marathi/English/Hindi) and all fonts supported by windows	11. Language Multilingual (Telugu/English) and all fonts supported by windows
66	Vol 2	70	4.17.8 , 4.17.9	Drone based Surveillance, Mobile Surveillance Vehicle	Clause is deleted
67	Vol 2	73	4.18.3	4.8.3	4.18.3
68	Vol 2	82	4.18.6	3. Contrast ratio 5000:1	3. Contrast ratio 4000:1
69	Vol 2	84	4.18.5	S No.5 IP Phone Specifications: S No.5/7 Supported Protocols: SNMP, DHCP, DNS	Clause is deleted
70		84	4.18.5	S No.5 IP Phone Specifications: S No.5/9.Speaker Phones: Full duplex speaker phone with echo cancellation Speaker on/ off button, microphone mute	Clause is deleted
71	Vol 2	90	4.18.6	10. Radio Handset	Refer addendum for revised specs.
72	Vol 2	90	4.18.7	Dial 100 Control Room:	Clause deleted and new Clause 4.18.17added as Help Desk System, for scope clarity and Refer Addendum_1 for additional specs

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73	Vol 2	90	4.18.7	4.18.7 Dial 100 Control Room: A Dial 100 Control Room shall be established as part of the command control center in the Kakinada. A Dial 100 based police control room would empower people to connect to police and get police assistance anytime, anywhere at very short "response time".	Scope of work is revised. Refer Addendum_ 1 . A Dial 100 based police control room shall be integrated with CCC.
74	Vol 2	91	4.18.7	b). Sl. No.2. The contro room shall have seating capacity of minimum of 15 operators.	b). Sl. No.2. The contro room shall have seating capacity of minimum of 5 operators.
75	Vol 2	92	4.18.9	Forensic Investigation Room:	Clause is deleted
76	Vol 2	103	4.18.10	xii. Sl. No. 8. Gun-shot detection	Clause is deleted
77		108	4.18.12	Sl. no. 22. Red Light Violation Detection (RLVD) system:Image should have a header/footer depicting the information about the site IP and violation details like date, time, equipment ID, location ID, Unique ID of each violation, lane number, Registration Number of violating vehicle and actual violation of violating vehicle etc. so that the complete lane wise junction behavior is recorded including (Speed of violating vehicle, notified speed limit, Signal Jumping, Stop Line Violation, Speed Violation with Registration Number Plate Recognition facility.	Red Light Violation Detection (RLVD) system:Image should have a header/footer depicting the information about the site IP and violation details like date, time, equipment ID, location ID, Unique ID of each violation, lane number, Registration Number of violating vehicle and actual violation of violating vehicle etc., so that the complete lane wise junction behavior is recorded including (Speed of violating vehicle, notified speed limit, Signal Jumping, Stop Line Violation Recognition facility.
78	Vol 2	111	4.18.15	The Systems Integrator shall obtain ISO 27001 certification for the CP Office Control Center within 2 quarters of final acceptance test. Payment from 3rd Quarter to be withheld till this certification is obtained by the successful bidder.	Clause is deleted
79	Vol 2	120	4.18.16	2. Ports • Minimum 4 10/100 TX PoE • May require higher port density at some locations, depending upon site conditions • May require fiber ports at some locations, depending upon site conditions/distances.	Ports 2 Minimum 8 10/100/1000 Electrical POE/POE+ Ports and minimum 2 SFP ports (compatible transceivers included)
80	Vol 2	120	4.18.16	8. Operating Temperature 0 – 50 degrees C or better	Operating Temperature 0 - 60 C degrees or better Industrial Grade Rating 9. Compliance 9 UL/EN/IEC/IEEE 802.3az or equivalent

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81	Vol 2	121	4.18.16	To be used at select places where text can be read. Text should be in Marathi at majority of places	To be used at select places where text can be read. Text should be in Telugu at majority of places
82	Vol 2	122	4.18.16	This may be used on a select few places in the city, usually on the main pole of the location where multiple cameras are installed. Text should be in Marathi in majority of places.	This may be used on a select few places in the city, usually on the main pole of the location where multiple cameras are installed. Text should be in Telugu in majority of places.
83	Vol 2	123	4.18.17	New Addition: Help desk system	Refer Addendum_1
84	Vol 2	123	4.18.18	New Addition: IOT Platform	Refer Addendum_1
85	Vol 2	123	4.18.19	New Addition: Privileged Identity Manager	Refer Addendum_1
86	Vol 2	123	4.18.20	New Addition: Disaster Alert System	Refer Addendum_1
87		124	4.19	ICT Enabled Solid Waste Management: Additional Spec	Refer Addendum_1
88		127	4.19.3	Environmental Protection: Compliance to IP67 standard	Environmental Protection: Compliance to IP65 standard
89		129	4.20	Smart Lighting: Additional Spec	Refer Addendum_1
90	Vol 2	131	4.20.3 Specifications	Smart Pole	Refer Addendum_1 for changed specs
91	Vol 2	132	4.20.3.1	LoRa Network : New Addition	Refer Addendum _1
92	Vol 2	132	4.20.4	Smart Street Light Solution: Additional Spec	Refer Addendum _1
93	Vol 2	139	4.21	Smart Traffic	Scope modified. Refer addendum_1
94	Vol 2	139	4.21.2	Adaptive Traffic Control System :	Clause is deleted
95	Vol 2	140	4.21.2	Adaptive Traffic Control System (ATCS):These calculations shall be based upon assessments carried out by the ATCS central application software running on a Kakinada Operation Center based on the data and	Clause is deleted
96	Vol 2	140	4.21.3	Revised scope of work.	Refer addendum_1 for revised scope of work
97	Vol 2	144	3.v.b	During movement the full arm should be illuminated yellow	Clause is deleted

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98	Vol 2	148	4.23.2	Develop mobile app for Grievance Redressal of Citizen – where citizen can take the picture, upload the same with Geo Tagging. The complaint should be automatically forwarded to the respective staff, with escalation within specified timelines supported with multilingual text to speech, speech to text and speech to speech systems.	Clause is deleted
99	Vol 2	148	4.23.3	3. Mobile Device of Driver <ul style="list-style-type: none"> • Connect to central web-server • Receive environment information from central system • Alarm management and safe environment mode features 	Clause is deleted
100	Vol 2	150	4.23.5 Point 2	• CO2 : 0 to 10% / 0 to 20%	As per the PCB norms
101	Vol 2	150	4.23.5 Point 6	Zero drift • ±2.0% FS max./month for O2 meter	Clause is deleted
102	Vol 2	150	4.23.5 Point 8	Span drift • ±2.0% FS max./month for O2 meter	Clause is deleted
103	Vol 2	151	4.24, 4.25, 4.26, 4.27, 4.28, 4.29, 4.30, 4.31, 4.32, 4.33, 4.34	8. Smart Governance Apps for Citizen Services (Section 4.24 in Vol 2) 9. Legal Module (Section 4.25 in Vol 2) 10. Document Management System (Section 4.26 in Vol 2) 11. HRMS (Section 4.27 in Vol 2) 12. Hospital Management System (Section 4.28 in Vol 2) 13. Welfare Scheme Modules (Section 4.29 in Vol 2) 14. Project Systems Engineering Module (Section 4.30 in Vol 2) 15. Municipal Secretary Module (Section 4.31 in Vol 2) 16. Asset Inventory Management (Section 4.32 in Vol 2) 17. Land & Estate Management (Section 4.33 in Vol 2) 18. Materials Management (Section 4.34 in Vol 2)	Scope of the work is modified. Refer addendum _1
104	Vol 2	166	5.3	Disaster Recovery (DR)	Clause is modified. However Bidder to ensure critical infrastructure is replicated in the DR center to be housed in the Municipal Office. Atleast 20% of the critical camera feed should be made available at the DR site along with replication of critical Smart City Solutions as part of this tender.
105	Vol 2	171	6.1	Data Center Router/ BRAS	New Addition, Refer Addendum_1
106	Vol 2	171	6.1	Core Switch	New Addition, Refer Addendum_1

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107	Vol 2	171	6.1	Aggregation Router	New Addition, Refer Addendum_1
108	Vol 2	171	6.1	Access Router	New Addition, Refer Addendum_1
109	Vol 2	171	6.1	Smart Data Center: Protocol Support: Must have support for TCP/IP, PPP, X.25, Frame relay and HDLC. Must support VPN. Must have support for integration of data and voice services Routing protocols of RIP, OSPF, and BGP. Support IPV4, IPV6 Support load balancing	Smart Data Center: Protocol Support: Must have support for TCP/IP, PPP, X.25/MPLS , Frame relay and HDLC. Must support VPN. Must have support for integration of data and voice services Routing protocols of RIP, OSPF, and BGP. Support IPV4, IPV6 Support load balancing
110	Vol 2	171	6.1	Smart Data Center: Security features: MD5 encryption for routing protocol NAT URL based Filtering RADIUS/AAA Authentication Management Access policy IPSec / Encryption L2TP	Smart Data Center: Security features: MD5 encryption for routing protocol NAT RADIUS/AAA Authentication Management Access policy IPSec / Encryption L2TP
111	Vol 2	172	6.1	Data Center TOR (Top of the Rack) Switch: 12) Management: Should have accessibility using Telnet, SSH, Console access, easier software upgrade through network using TFTP etc. Configuration management through CLI, GUI based software utility and using web interface	Data Center TOR (Top of the Rack) Switch: Management: Should have accessibility using Telnet, SSH, Console access, easier software upgrade through network using TFTP etc. Configuration management through CLI OR GUI based software utility and using web interface
112	Vol 2	173	6.1	Blade Chassis Specifications : 6) Minimum 1 USB port	Blade Chassis Specifications : Minimum 1 USB port at Blade Server or Chassis Level
113	Vol 2	174	6.1	Primary Storage: 1) Solution/ Type - IP Based/iSCSI/FC/NFS/CIFS	Primary Storage: Solution/ Type - IP Based/iSCSI/FC/NFS/CIFS/ Software defined storage.
114	Vol 2	174	6.1	Primary Storage: 1) IP Based/iSCSI/FC/NFS/CIFS	Primary Storage: IP Based/iSCSI/FC/NFS/CIFS/ cluster based scaled out storage
115	Vol 2	174	6.1	Primary Storage: 1). Disks should be preferably minimum of 3 TB capacity	Primary Storage: Disks should be preferably minimum of 6 TB capacity
116	Vol 2	174	6.1	Primary Storage: 2) RAID solution offered must protect against double disc failure	Primary Storage: RAID 0/5 + 0/6 or better solution offered must protect against double disc failure

S.No.	RFP Volume	Page	Clause No.	As per RFP	As Corrected/Modified/Addition/Deletion
117	Vol 2	174	6.1	Primary Storage: 6). Cache- Minimum 128 GB of useable cache across all controllers. If cache is provided in additional hardware for unified storage solution, then cache must be over and above 128 GB.	Primary Storage: Cache- Minimum 32 GB expandable upto 64 GB cache memory per controller.
118	Vol 2	175	6.1	Primary Storage: 10) Additional Clause: Disk type	The proposed storage should support SSD, SAS, NL-SAS
119	Vol 2	175	6.1	Secondary Storage : 1) (Archival/Backup) can be on any media such as Tapes , Disks, Disk systems, etc. or its combination. (so as to arrive at lower cost per TB)	Secondary Storage :(Archival/Backup) can be on any media such as Disks, Disk systems. or its combination. (so as to arrive at lower cost per TB)
120	Vol 2	178	6.1	Core Router: 12) Security features: MD5 encryption for routing protocol • NAT • URL based Filtering • RADIUS Authentication • Management Access policy • IPSec / Encryption • L2TP	Core Router: Security features: MD5 encryption for routing protocol • NAT • RADIUS Authentication • Management Access policy • IPSec / Encryption • L2TP
121	Vol 2	177	6.1	Core Router: 5) Protocol Support:Must have support for TCP/IP, PPP, X.25, Frame relay and HDLC	Core Router: Protocol Support:Must have support for TCP/IP, Frame relay and HDLC, X.25/MPLS
122	Vol 2	177	6.1	Technical Specifications - Smart Data Center/WAN/ Internet Router, Core router,Internet Router - URL Based Filtering	Technical Specifications - Smart Data Center/WAN/ Internet Router, Core router,Internet Router
123	Vol 2	179	6.1	Firewall: 3) Performance and Availability: Encrypted throughput: minimum 800 Mbps	Firewall: Performance and Availability: Encrypted throughput: minimum 400 Mbps

S.No.	RFP Volume	Page	Clause No.	As per RFP	As Corrected/Modified/Addition/Deletion
124	Vol 2	179	6.1	Firewall: 5) Protocols: • TCP/IP, PPTP • RTP, L2TP • IPSec, GRE, DES/3DES/AES • PPPoE, EAP-TLS, RTP • FTP, HTTP, HTTPS • SNMP, SMTP • DHCP, DNS • Support for Ipv6	Firewall: Protocols: • TCP/IP, PPTP • RTP, L2TP • IPSec, GRE, DES/3DES/AES • PPPoE, RTP • FTP, HTTP, HTTPS • SNMP, SMTP • DHCP, DNS • Support for Ipv6
125	Vol 2	180	6.1	Data Center Switch: Modified Specs	Refer Addendum_1
126	Vol 2	180	6.1	SAN Switch : New Addition	Refer Addendum_1
127	Vol 2	181	6.1	Data Center Switch (10G) Technical Specifications 7) Protocols: Should support ring protection.	Should support Ring protection is removed/deleted.
128	Vol 2	181	6.1	Data Center Switch (1G): 12) Management: Should have accessibility using Telnet, SSH, Console access, easier software upgrade through network using TFTP etc. Configuration management through CLI, GUI based software utility and using web interface	Data Center Switch (1G): Management: Should have accessibility using Telnet, SSH, Console access, easier software upgrade through network using TFTP etc. Configuration management through CLI OR GUI based software utility and using web interface
129	Vol 2	182	6.1	Data Center Switch (10G): 11)Management: Should have accessibility using Telnet, SSH, Console access, easier software upgrade through network using TFTP etc. Configuration management through CLI, GUI based software utility and using web interface	Data Center Switch (10G): Management: Should have accessibility using Telnet, SSH, Console access, easier software upgrade through network using TFTP etc. Configuration management through CLI OR GUI based software utility and using web interface
130	Vol 2	182	6.1	Server Load balancer	Clause is deleted however Bidder to propose a Server/ Application Load Balancer (appliance or software based as per design) to maintain the critical traffic eg WiFi, Surveillance etc
131	Vol 2	183	6.1	Tape library: Should support industry leading backup software such as Symatec Net Backup	Clause is deleted
132	Vol 2	212	Annexure III - Solution Requirements & Locations	Thermal Cameras	Clause is deleted
133	Vol 2	213	Annexure IV	Indicative Length of City Backbone : 250 Km	Indicative Length of City Backbone : 120 km

S.No.	RFP Volume	Page	Clause No.	As per RFP	As Corrected/Modified/Addition/Deletion
134	Vol 2	214	Annexure V	6 Zonal Aggregation points.	4 to 10 Zonal Aggregation points.
135	Vol 2	216	Annexure VII	Location for Smart Lighting Requirement 20000	Location for Smart Lighting new Requirement 640 .
136	Vol 2	217	Annexure VIII	Proposed Locations for Waste Bins	Refer Addendum_1 for revised list
137	Vol 2	252	Annex-J (Public WI-FI)	xii. preferred: Polycom/SpectraLink VIEW Certification, SpectraLink Voice Priority	Clause is deleted. Refer Addendum for Additional Information.
138	Vol 2	252	Annex-J (Public WI-FI)	xiii. preferred: Wi-Fi Certified Voice-Enterprise	Clause is deleted. Refer Addendum for Additional Information.
139	Vol 2	254	Annex - L	New Addition : Key Location List	Refer Addendum_1 for Key Location List
140	Vol 3	18	12	Payments: Authority shall make all efforts to make payments to SI within 45 days of receipt of invoice(s) and all necessary supporting documents.	Payments: Authority shall make all efforts to make payments to SI within 60 days of receipt of invoice(s) and all necessary supporting documents.

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