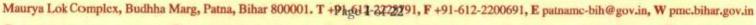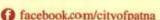# CORRIGENDUM- 8
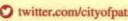## (NIT No.- 05/MD/PSCL/2021-22 dated 16.04.2021)

The prospective bidders for **"Selection of Master System Integrator for Implementation of Integrated Smart Solutions at Patna"** may take note of the following changes before submission of bids:
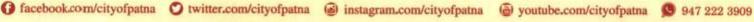
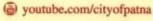|	Activity	As per RFP/ earlier Corrigenda	Revised as
1	Online Sale/Download period of Tender documents	From 23.04.2021 to 21.06.2021 (15.00 Hrs.) https://eproc.bihar.gov.in	From 23.04.2021 to 03.07.2021 (15.00 Hrs.) https://eproc.bihar.gov.in
2	Last date and time for submission of bids online	Till 16.00 Hrs. on 21.06.2021	Till 16.00 Hrs. on 03.07.2021
3	Last date and time for submission of original EMD & DD (RFP fee)	Till 16.00 Hrs. on 22.06.2021	Till 16.30 Hrs. on 03.07.2021
4	Date and time of opening of Technical Bid	At 17.00 Hrs. on 22.06.2021	At 17.30 Hrs. on 03.07.2021
5	RFP Vol 2, Page No. 141, Sub-Section 5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	IPv6 Ready logo awarded	IPv6 Ready / logo awarded
6	RFP Vol 2, Page No. 143, Sub-Section 5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	IGMP Groups 2048	IGMP Groups 1000 or above
7	RFP Vol 2, Page No. 143, Sub-Section 5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Jumbo Frame Size: 9.6 KB	Jumbo Frame Size: 8 KB or above
8	RFP Vol 2, Page No. 144, Sub-Section 5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Reverse Polarity Protection	Reverse Polarity Protection or equivalent

	Activity	As per RFP/ earlier Corrigenda	Revised as
9	RFP Vol 2, Page No. 87, Sub-Section 5.1.8. Functional & Technical Requirements for IP Phones	Telephony Features Hold, transfer, forward, 3-way conference, call park, call pickup, shared-call appearance /bridged line-appearance, downloadable phonebook, call waiting, call log XML	Telephony Features Hold, transfer, forward, 3-way conference, call park, call pickup, shared-call appearance/bridged line-appearance, call waiting, call log XML
10	RFP Vol 2, Page No. 87, Sub-Section 5.1.8. Functional & Technical Requirements for IP Phones	Video Codec - Support for G.729A/B, G.711µ/a-law, G.726, G.722(wide-band), in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO)	Audio Codec - Support for G.729A/B, G.711µ/a-law, G.726, G.722 (wide-band) /OPUS/ILBC in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO)
11	RFP Vol 2, Page No. 113, Sub Section. 5.2.1.7. Functional & Technical Requirements for DC Core Switch	The Switch should have the capability to extend the control plane across multiple active switches making it a virtual switching fabric, enabling interconnected switches to perform as single Layer-2 switch and Layer-3 Switch. The Fabric should be managed by a single IP Address.	Switch should support VPC or multi chassis Ether Channel or Equivalent to ensure both the switch in active – active
12	RFP Vol 2, Page No. 115, Sub-Section 5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should have the capability to extend the control plane across multiple active switches making it a virtual switching fabric, enabling interconnected switches to perform as single Layer-2 switch and Layer-3 Switch. The Fabric should be managed by a single IP Address.	Switch should support VPC or multi chassis Ether Channel or Equivalent to ensure both the switch in active – active
13	RFP Vol 2, Page No. 116, Sub Section. 5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support Hitless patch upgrades or Min-loss upgrade	The Switch should support Hitless patch upgrades or Min-loss upgrade or equivalent.
14	RFP Vol 2, Page No. 117, Sub-Section 5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support for 4,000 VLANs based on port, MAC address, IPv4 subnet, protocol, and guest VLAN; supports VLAN mapping	The Switch should support for 3900 VLANs or more based on port

	Activity	As per RFP/ earlier Corrigenda	Revised as
15	RFP Vol 2, Page No.118, Sub-Section 5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support sFlow (RFC 3176)	The Switch should support sFlow (RFC 3176) / nFlow
16	RFP Vol 2, Page No.118, Sub-Section 5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support ISSU/NSSU/ hitless upgrade and hot patching/ hitless patching/ Min-Loss upgrade while in Virtual chassis / stacking	The Switch should support ISSU/NSSU/ hitless upgrade and hot patching /hitless patching/ Min-Loss upgrade while in Virtual chassis / stacking or equivalent
17	RFP Vol 2, Page No. 139, Sub-Section 5.2.1.18. Functional & Technical Requirements for Aggregation Switches	Sflow/netflow, captive portal	Sflow/netflow, captive portal or equivalent
18	RFP Vol 2, Page No. 144, Sub-Section 5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Button: Reset button	Button: Reset button / hole
19	RFP Vol 2, Page No.142, Sub-Section 5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	IGMP snooping and GMRP for filtering multicast traffic from industrial Ethernet protocols	IGMP snooping / GMRP for filtering multicast traffic from industrial Ethernet protocols
20	RFP Vol 2, Page No.143, Sub-Section 5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Digital Inputs: Digital Inputs: 1 input with the same ground, but electrically isolated from the electronics. • +13 to +30 V for state "1" • -30 to +3 V for state "0" • Max. input current: 8 mA	This Clause stand deleted
21	RFP Vol 2, Page No.100, Sub-Section. 5.2.1.1. Functional & Technical Requirements for Core Router	Operating temperature of 0°C to 45°C	Operating temperature of 5°C to 40°C
22	RFP Vol 2, Page No.101, Sub-Section. 5.2.1.2. Functional & Technical Requirements for Internet Router	Operating temperature of 0°C to 45°C	Operating temperature of 5°C to 40°C
23	RFP Vol 2, Page No.144, Sub-Section 5.2.1.20. Functional & Technical Requirements for	Safety: UL 508, EN60950-1 (LVD) EMI: FCC Part 15 Subpart B Class A, EN 61000-6-4	Safety: EN60950-1 (LVD) EMI: FCC Part 15 Subpart B Class A, EN 61000-6-4 (Industrial) EMS:

	Activity	As per RFP/ earlier Corrigenda	Revised as
	PoE Ruggedized Switches	(Industrial) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8 Rail Traffic: EN 50121-4 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 NEMA-TS2	EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8 Shock: IEC 60068-2-27 Vibration: IEC 60068-2-6 NEMA-TS2
24	RFP Vol 2, Page No.119, Sub-Section 5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server).	Integrated PCIe 3.0 12Gb/s SAS Raid Controller with 2GB Cache to support both internal hard drives of compute sled as well as the hard disks in the storage sled supporting RAID 0, 1, 5, 6, 10, 50, 60	Integrated PCIe 3.0 12Gb/s SAS Raid Controller with 2GB Cache to support both internal hard drives of compute sled as well as the hard disks in the storage sled supporting RAID 0, 1, 5, 6, 10 or equivalent
25	RFP Vol 2, Page No.120, Sub-Section 5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)	Should support remote scripted reconfiguration tools	Should support remote scripted or reconfiguration tools.
26	RFP Vol 2, Page No.121, Sub-Section 5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)	ACPI 2.0 Compliant, PCI 2.0 or higher Compliant, WOL Support, MS Logo Certification, USB 2.0 Support.	ACPI 2.0 Compliant, PCI 2.0 or higher Compliant or WOL Support, MS Logo Certification, USB 2.0 Support.
27	RFP Vol 2, Page No.121, Sub-Section 5.2.1.10. Functional & Technical Requirements for GPU Based Rack Servers (Video Analytics & FRS Servers)	Min 1U rack mounted with sliding rails	1U/2U rack mounted with sliding rails.

	Activity	As per RFP/ earlier Corrigenda	Revised as
28	RFP Vol 2, Page No.121, Sub-Section 5.2.1.10. Functional & Technical Requirements for GPU Based Rack Servers (Video Analytics & FRS Servers)	3 x full height GPU (NVIDIA T4 or latest series) 8GB to be configured on Day 1	(NVIDIA T4 or latest series) 8GB to be configured on Day 1 as per bidder solution
29	RFP Vol 2, Page No.127, Sub-Section 5.2.1.12. Functional & Technical Requirements for Continuous Learning Server A.I/Training Server	4x 32 GB RAM 2666 MT/s support up to 1500GB RAM, should have min. 16 DIMM slots	Min 128 GB RAM 2666 MT/s support up to 1500GB RAM, should have min. 16 DIMM slots
30	RFP Vol 2, Page No.127, Sub-Section 5.2.1.12. Functional & Technical Requirements for Continuous Learning Server A.I/Training Server	Should support up to eight hard disk drives (SAS, SATA, nearline SAS SSD: SAS, SATA)	Should support up to eight or above hard disk drives (SAS, SATA, SAS SSD: SAS, SATA)
31	RFP Vol 2, Page No.127, Sub-Section 5.2.1.12. Functional & Technical Requirements for Continuous Learning Server A.I/Training Server	Should support up to 10 GPU's	Should support 8 or above GPU's
32	RFP Vol 2, Page No.128-129, Sub-Section 5.2.1.13. Functional & Technical Requirements for Blade Chassis	Dual end-to-end redundant Network connectivity for each blade. The blade chassis should have at least 4 I/O Modules/ switch bays	Dual end-to-end redundant Network connectivity for each blade. The blade chassis should have at least 2 or above I/O Modules/ switch bays.
33	RFP Vol 2, Page No. 129, Sub-Section Functional & Technical Requirements for Blade Chassis	The chassis should have a touch screen LCD /LED display	This Clause Stand deleted
34	RFP Vol 2, Page No.130, Sub-Section 5.2.1.14. Functional & Technical Requirements for SAN Switch	The switch to be configured with minimum of 24 ports with 16 Gbps FC configuration backward compatible to 4/8.	The switch to be configured with minimum of 24 ports with 16 Gbps FC configuration backward compatible to 4/8 or above
35	RFP Vol 2, Page No.142, Sub-Section 5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	User passwords with multiple levels of security protect against unauthorized configuration Command line interface	User passwords with multiple levels of security protect against unauthorized configuration Command line interface (CLI/local Access)

	Activity	As per RFP/ earlier Corrigenda	Revised as
		(CLI/local Access) for quickly configuring major managed functions: More than 200 command lines	
36	RFP Vol 2, Page No.118, Sub-Section 5.2.1.8. Functional & Technical Requirements for DC Switches	MAC Address table size of 128,000 entries	MAC Address table size of 80,000 entries or more"
37	RFP Vol 2, Page No. 100, Sub-Section 5.2.1.1. Functional & Technical Requirements for Core Router	Interface Requirement: 20 X 1 Gig Base SFP interface and 10 X 10Gig interface (The optics should be populated from day one) and Chassis should have At least 4 free main slots (not dauther slots) to scale in future to support additional 10Gig interface, 40G QSFP+ & 100G SFP28/CFP2 interface as per the requirement	Interface Requirement: 20 X 1 Gig Base SFP interface scalable to 10G interface and 4x40G SFP interface scalable up to 100G SFP interfaces as per the requirement
38	RFP Vol 2, Page No. 139, Sub-Section 5.2.1.18. Functional & Technical Requirements for Aggregation Switches	Should have 24x RJ45 10/100/1000Mb POE+ auto-sensing ports, 4 x SFP+ ports. Switch should have minimum 400-watt power support for POE devices	Should have 24x 10/100/1000 with POE+ 2 x 1 G SFP Interface
39	RFP Vol 2, Page No.141, Sub-Section 5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Shall have 2* 100/1000BaseSFP Single mode ports,10 KM Support with LC connectors, 8 No's of 10/100/1000 BaseT(X) copper ports (RJ45 connectors)	Shall have 2*1/10G SFP/SFP+ Single mode ports,10 KM Support with LC connectors, 8 No's of 10/100/1000 BaseT(X) copper ports (RJ45 connectors)
40	RFP Vol 2, Page No. 101, Sub-Section 5.2.1.3 Functional & Technical Requirements for Data Centre Firewall	Should support authentication using XAUTH/RADIUS, Active Directory, SSO, LDAP, Novell, Internal user database, terminal Services, Citrix	Should support authentication using XAUTH/RADIUS, Active Directory, SSO, LDAP etc.
41	RFP Vol 2, Page No. 103, Sub-Section 5.2.1.3 Functional & Technical Requirements for Data Centre Firewall	The product should have minimum of 16 x 1GbE interfaces, 4 x 1Gb SFP interfaces and 2 x 10Gig SFP+ interfaces. Appliances should have dedicated management Ethernet interface	The product should have minimum of 8 x 1GbE interfaces or above, 4 x 1Gb SFP interfaces and 2 x 10Gig SFP+ interfaces. Appliances should have dedicated management Ethernet interface

	Activity	As per RFP/ earlier Corrigenda	Revised as
42	RFP Vol 2, Page No. 160, Sub-Section 5.2.1.25. Functional & Technical Requirements for HIPS & NIPS	Should support stateful Inspection Firewall, Anti-Malware, Deep Packet Inspection with HIPS, Integrity Monitoring, Application Control and Recommended scan in single module with agentless and agent capabilities	Should support stateful Inspection Firewall, Deep Packet Inspection with HIPS, Integrity Monitoring, Application Control and Recommended scan in single module with agentless and agent capabilities
43	RFP Vol 2, Page No. 160, Sub-Section 5.2.1.25. Functional & Technical Requirements for HIPS & NIPS	Firewall rules should filter traffic based on source and destination IP address, port, MAC address, etc. and should detect reconnaissance activities such as port scans and Solution should be capable of blocking and detecting IPv6 attacks and Product should support CVE cross-referencing when applicable for vulnerabilities.	Firewall/NIPS rules should filter traffic based on source and destination IP address, port, MAC address, etc. and should detect reconnaissance activities such as port scans and Solution should be capable of blocking and detecting IPv6 attacks and Product should support CVE cross- referencing when applicable for vulnerabilities.
44	RFP Vol 2, Page No. 160, Sub-Section 5.2.1.25. Functional & Technical Requirements for HIPS & NIPS	Solution should have feature to take backup of infected files and restoring the same	Solution should have feature to take backup of infected files and restoring the same or equivalent
45	RFP Vol 2, Page No. 161, Sub-Section 5.2.1.25. Functional & Technical Requirements for HIPS & NIPS	Demonstrate compliance with a number of regulatory requirements including PCI DSS, HIPAA, NIST, SSAE 16	Demonstrate compliance with a number of regulatory requirements including PCI DSS, HIPAA, NIST, SSAE 16 or Equivalent
46	RFP Vol 2, Page No. 161, Sub-Section 5.2.1.25. Functional & Technical Requirements for HIPS & NIPS	The NIPS appliance must have at least 40 Gbps inspection throughput, which includes SSL inspection. NIPS should have 2 * 40 GE QSFP+ and 8 * 10G SFP+ ports. NIPS solution should be in Gartner leader's quadrant as per latest report.	The NIPS appliance must have at least 15 Gbps inspection throughput, which includes SSL inspection. NIPS should have 2 * 40 GE QSFP+ or better and 4 *10G SFP+ ports or better. NIPS solution should be in Gartner leader's quadrant as per latest report or equivalent Indian standard report, if any.
47	RFP Vol 2, Page No. 162, Sub-Section 5.2.1.25. Functional & Technical	The NIPS must support 115,000,000 concurrent sessions and 6,50,000 new	The NIPS must support Min 50,00,000 concurrent sessions

	Activity	As per RFP/ earlier Corrigenda	Revised as
	Requirements for HIPS & NIPS	connections per second with latency should be <40 Micr	and Min 1,50,000 new connections per second with latency should be <40 Micro.
48	RFP Vol 2, Page No. 133, Sub-Section 5.2.1.16. Functional & Technical Requirements for Unified Storage	Storage should have RAID levels support for RAID 6	Storage should have RAID levels support for RAID 6 or equivalent
49	RFP Vol 2, Page No. 112, Sub-Section 5.2.1.7 Functional & Technical Requirements for DC Core Switch	Shall have up to 1.2 Bpps switching throughput	Switches should have non-blocking switching throughput
50	RFP Vol 2, Page No. 139, Sub-Section 5.2.1.18. Functional & Technical Requirements for Aggregation Switches	Switch should have 1GB RAM for its smooth operations	Switch should have min 1 GB RAM for its smooth operations
51	RFP Vol 2, Page No.100, Sub-Section. 5.2.1.1. Functional & Technical Requirements for Core Router	Router should have IPv4, IPv6 and QoS Classification. Should have 3M IPv4, 2M IPv6 routing entries, 50000 IPv4 Multicast & 8000 IPv6 Multicast routing per system.	Router should have IPv4, IPv6 and QoS Classification. Should have min 2M IPv4, 1M IPv6 routing entries, 50000 IPv4 Multicast & 8000 IPv6 Multicast routing per system.
52	RFP Vol 2, Page No. 101, Sub-Section 5.2.1.3 Functional & Technical Requirements for Data Centre Firewall	The next Generation Firewall should be Appliance based and have inbuilt features Firewall, IPS, Load balancing, QOS, VPN, AV/Antimalware, DPI, Application control for 3000+ applications	The next Generation Firewall should be Appliance based and have inbuilt features Firewall, IPS, Load balancing/load sharing, QOS, VPN, AV/Antimalware, DPI, Application control for 3000+ applications.
53	RFP Vol 2, Page No. 101, Sub-Section 5.2.1.3 Functional & Technical Requirements for Data Centre Firewall	Support of 10 Gbps or more IPsec VPN throughput and Support of 10000 or more IPSec VPN Tunnels	Support of Min 8 Gbps or more IPsec VPN throughput and Support of 10000 or more IPSec VPN Tunnels
54	RFP Vol 2, Page No. 131, Sub-Section 5.2.1.15 Functional & Technical Requirements for Scale Out Storage	Storage Should be Fully Symmetric and fully distributed Architecture written for Scale-Out Storage operations.	Storage Should be Fully Symmetric /Assymetric/ fully distributed Architecture written for Scale-Out Storage
55	Corrigendum 4, Pg. No. 37 ANNEXURE 4 (As	It should have capability to import / export data in	It should have capability to import / export data in various

	Activity	As per RFP/ earlier Corrigenda	Revised as
	Addendum) COTS ENTERPRISE GIS PLATFORM FOR WEB GIS WITH GEO ANALYTICS SOFTWARE SPECIFICATION	various formats like .dwg, ,dxf, .dgn, .shp (shape files), coverage file, .mif (MapInfo), .gml, .kml, .gpx., Geo PDF GeoJSON, interlis, GeoRSS, SqlLite, H4,H5 formats, MBtiles etc. Should support ODBC compliance interface with industry standard RDBMS like PostGRE SQL, Oracle, SQL server, Access etc.	formats like .dwg, .dxf,. dgn, .shp (shape files), coverage file, .mif (MapInfo), .gml, .kml, .gpx., Geo PDF GeoJSON, GeoRSS, SqlLite, H4,H5 formats, MBtiles etc. Should support ODBC compliance interface with industry standard RDBMS like PostGRE SQL, Oracle, SQL server, Access etc.
56	Corrigendum 4, Pg. No. 37 ANNEXURE 4 (As Addendum) COTS ENTERPRISE GIS PLATFORM FOR WEB GIS WITH GEO ANALYTICS SOFTWARE SPECIFICATION	It should allow users to export results to various file formats like EMF, BMP, TIFF, JPEG, etc.	It should allow users to export results to various file formats like BMP, TIFF, JPEG, etc.
57	Corrigendum 4, Pg. No. 37 ANNEXURE 4 (As Addendum) COTS ENTERPRISE GIS PLATFORM FOR WEB GIS WITH GEO ANALYTICS SOFTWARE SPECIFICATION	Web GIS Software should support both Windows and Linux platform. Software should have rich display and navigation tools like zoom in, zoom out, fixed zoom in, fixed zoom out, pan, real time pan, bookmark, Geo link multiple views, swipe, flicker, search by location, cross hair, cursor location value, etc.	Web GIS Software should support Windows/ Linux platform. Software should have rich display and navigation tools like zoom in, zoom out, fixed zoom in, fixed zoom out, pan, real time pan, bookmark, search by location, cross hair, cursor location value, etc.
58	RFP Vol 2, Page No. 131, Sub-Section: 5.2.1.15 Functional & Technical Requirements for Scale Out Storage	Proposed Storage solution should be based on Appliance and not general-purpose servers or software-define storage.	Proposed Storage solution should be based on Appliance /Purpose built Hardware.
59	RFP Vol 2, Page No. 134, Sub-Section: 5.2.1.17 Functional & Technical Requirements for Backup Appliance	The storage shall support FC Protocol, iSCSI and file protocols NFSv3, NFSv4, NFSv4.1; CIFS (SMB 1), SMB 2, SMB 3.0, SMB 3.02, and SMB 3.1.1; FTP and SFTP	The storage shall support FC Protocol, iSCSI and file protocols NFSv3, NFSv4, NFSv4.1; CIFS/SMB 1, SMB 2, SMB 3.0, SMB 3.02, and SMB 3.1.1; FTP and SFTP

	Activity	As per RFP/ earlier Corrigenda	Revised as
60	RFP Vol 2, Page No. 135, Sub-Section:5.2.1.17. Functional & Technical Requirements for Backup Appliance	Must have Agent/Modules for online backup of applications and databases such as MS SQL, Oracle, Exchange, Lotus, DB2, Informix, Sybase, Sharepoint, Meditech and SAP. Must support NAS and storage array-based snapshot backup for off host zero downtime and zero load on the primary backup client with wizard-based configuration.	Must have Agent/Modules for online backup of applications and databases such as MS SQL, Oracle, Exchange, Lotus, DB2, Informix, Sybase, Sharepoint and SAP must support NAS and storage array-based snapshot backup for off host zero downtime and zero load on the primary backup client with wizard-based configuration.
61	RFP Vol 2, Page No. 215, Sub-Section: 5.2.3.8. Functional & Technical Requirements for Identity Access Management	The proposed solution should be appliance based and provide the capability to manage Password Vault, Access Management, Session Recording, Application to Application (allows dynamic password access from applications), etc. within a single hardened platform.	The proposed solution should be appliance based or virtual and provide the capability to manage Password Vault, Access Management, Session Recording, Application to Application (allows dynamic password access from applications), etc. within a single hardened platform.
62	RFP Vol 2, Page No. 256, Sub-Section: 6.1.3. Detailed Specifications for Vehicle Detector Sensor	The vehicle detector should Forward firing technology multilane radar/video-based technology with 4D object tracking with HD resolution. The sensor should be capable of working in fog, rain and without any requirement of cleaning and can provide precise information on counting, classification queue length for at least 175 meters for all stopped and moving vehicles.	This Clause stands deleted.
63	RFP Vol 2, Page No. 249, Sub-Section: 6.1.1.1. Traffic Signal Controller	The controller shall provide a real time clock (RTC) with battery backup that set and update the time, date and day of the week from the GPS. The RTC shall have minimum of 10 years battery backup with maximum time	The controller shall provide a real time clock (RTC) with battery backup that set and update the time, date and day of the week from the GPS. The RTC shall have minimum of 5 years battery backup with maximum time tolerance of +/-

	Activity	As per RFP/ earlier Corrigenda	Revised as
		tolerance of +/- 2 sec per day.	2 sec per day.
64	RFP Vol 2, Page No. 250, Sub-Section: 6.1.1.1. Traffic Signal Controller	Cable less Synchronization – It shall be possible to synchronize the traffic signal controllers installed in a corridor in the following modes of operation, without physically linking them and without communication network. GPS enabled RTC shall be the reference for the cable less synchronization	Cable less Synchronization/ Cable based Synchronization – It shall be possible to synchronize the traffic signal controllers installed in a corridor in the following modes of operation, with/without physically linking them and with communication network. GPS enabled RTC shall be the reference for the cable-based synchronization.
65	Corrigendum 4 Pg. Np. 2, E. OEM Selection	Command Control Platform Marks for OEM deployment shall be as follows: 7 or more deployment = 3 marks 5-6 deployment = 2 marks 3-4 deployment = 1 mark Less than 3 deployments shall not be eligible to bid.	Marks for OEM deployment shall be as follows: 5 or more deployment = 3 marks 4 deployment = 2 marks 3 deployment = 1 mark Less than 3 deployments shall not be eligible to bid into any Smart City/Safe City
66	RFP Vol 2, Page No. 142, Sub-Section 5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Line-swap fast recovery	This entry at serial no. 15 stands deleted
67	RFP Vol-II, Pg. No. 142, Sub-Section 5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Configurable by web browser, USB-serial console	Configurable by web browser, USB-serial/RJ-45 console Port
68	RFP Vol 2, Page No. 143, Sub-Section 5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Console Port: USB-serial console Storage Port: USB storage	Console Port: USB-Serial/RJ-45 Storage Port: USB storage
69	RFP Vol 2, Page No. 164, Sub-Section:5.2.2. Intelligent Integrated Infrastructure	42 U racks of dimension 800 mm x 1000 mm	Network Rack: 42 U racks of dimension 800 mm x 1000 mm Server Rack: 42 U racks of dimension 800 mm x 1200 mm
70	RFP Vol 2, Page No. 201, Sub-Section:5.2.3.2. Functional & Technical Specifications for Server Load	Proposed device should support up to 8 virtual instances/segmentation	Proposed device should 3 virtual instances from day 1 and it should support up to 8 virtual instances /segmentation in

	Activity	As per RFP/ earlier Corrigenda	Revised as
	Balancer		future
71	RFP Vol 2, Page No. 201, Sub-Section:5.2.3.2. Functional & Technical Specifications for Server Load Balancer	Should have secure access solutions for mobile PDAs, Android, Windows and iOS based smart phones and tablets with machine authentication	This Clause stands deleted
72	RFP Vol 2, Page No. 202, Sub-Section:5.2.3.3. Functional & Technical Requirements for Link Load Balancer	The proposed load balancer should be allow to install any generic or third-party operating/application	This Clause stands deleted
73	RFP Vol 2, Page No. 202, Sub-Section:5.2.3.3. Functional & Technical Requirements for Link Load Balancer	System must support 30 Application delivery partition/Virtual Context	System must support 30 virtual instances along with device resources
74	RFP Vol 2, Page No. 202, Sub-Section:5.2.3.3. Functional & Technical Requirements for Link Load Balancer	System must support resource allocation to each context including throughput, CPS, Concurrent connection, SSL throughput	System must support resource allocation to each component including throughput, CPU etc and other contexts
75	RFP Vol 2, Page No. 202, Sub-Section:5.2.3.3. Functional & Technical Requirements for Link Load Balancer	All the virtual context must be available from day-1	All the virtual context/Virtual instance must be available as and when required.
76	RFP Vol 2, Page No. 217, Sub-Section:5.2.3.1. Functional & Technical Requirements for SSLi	-	The Sub-Section:5.2.3.1. stands deleted
77	RFP Vol 2, Page No. 286, Sub-Section:5.2.3.1. Functional Enterprise Management System	The solution should be virtual appliance and deployable on Linux operating systems to reduce the overall TCO.	The solution should be virtual appliance or Software based and deployable on Linux operating systems to reduce the overall TCO.
78	RFP Vol 2, Page No. 81, Sub-Section 5.1.2. Functional & Technical Requirements for Video Display Wall	Projection Technology: DLP Rear Projection with each cube having 4K- UHD resolution	DLP Rear Projection with each cube having Full HD resolution or better
79	RFP Vol 2, Page No. 329, Sl. No. 130 CCTV-Police Area	UPS- (500 VA with 40 Mins battery backup at full	UPS- (500 VA with 1 hour battery backup at full load)-800 Nos

	Activity	As per RFP/ earlier Corrigenda	Revised as
		load)/UPS with 1 hr backup)- 800 Nos	
80	RFP Vol 2, Page No 164, Sub-Section 5.2.2. Intelligent Integrated Infrastructure	e.ii 2 x 300 KVA UPS with P.F. up to 0.9 & efficiency 92% ~94%. There should be approximately 120 minutes battery back-up.	e.ii 2 x 300 KVA UPS with P.F. up to 0.9 & efficiency 92% ~94%. There should be approximately 30 minutes battery back-up.
81	RFP Vol 2, Page No 330, Sub-Section 10.1. Annexure 1: Bill of Quantity	CCTV-Railway: Online UPS (3 KVA with 2hrs backup)	CCTV-Railway: Online UPS (3 KVA with 30 minutes backup)
82	RFP Vol 2, Page No 330, Sub-Section 10.1. Annexure 1: Bill of Quantity	CCTV-Railway: Online UPS (3 KVA with 2hrs backup)	CCTV-Railway: Online UPS (3 KVA with 30 minutes backup)
83	RFP Vol 2, Page No. 167 Sub-Section Security 5.2.2.6. Cooling System	Both Hot and cold Aisle Containment for Server room as per layout in Annexure-2&3 of RFP Vol-II for better PUE, Cooling, Power, DCIM from same OEM for better Integration	Both Hot and cold Aisle Containment for Server room as per layout in Annexure-2&3 of RFP Vol-II for better PUE, Cooling, Power, DCIM
84	RFP Vol 2, Page No. 132, Sub-Section: 5.2.1.15. Functional & Technical Requirements for Scale Out Storage	Protection Levels Protection level which can protect data against simultaneous 2/3 disks/ controllers/nodes failures, without data unavailability and data loss- Should have capability to change the protection level on-the-fly without impacting the workflow of VMS	Protection Levels: Protection level which can protect data against simultaneous 2/3 disks/controllers/ nodes failures, without data unavailability and data loss.
85	Corrigendum 4, Pg. No. 37 ANNEXURE 4 (As Addendum) COTS ENTERPRISE GIS PLATFORM FOR WEB GIS WITH GEO ANALYTICS SOFTWARE SPECIFICATION	The proposed software should support HRSI (High Resolution Satellite Imagery) and low-resolution satellite images (panchromatic & multispectral) such as IKONOS, Quick bird, Geoeye, Worldview, CARTOSAT, EROS, LISS-IV, LISS-III, AWIFS, RISAT-1, KALPANA-1, INSAT3A, INSAT3D, PROVA-V, CEOS, ECW, JP2000, Sentinel, Radarsat, RISAT etc.	The proposed software should support HRSI (High Resolution Satellite Imagery) and low-resolution satellite images (panchromatic & multispectral) such as IKONOS, Quick bird, Geoeye, Worldview, CARTOSAT etc.

	Activity	As per RFP/ earlier Corrigenda	Revised as
86	RFP Vol 2, Page No 81, Sub-Section 5.1.2. Functional & Technical Requirements for Video Display Wall- Power Supply	Dual Redundant Power Supply Built in inside the cubes	This Clause stands deleted
87	RFP Vol 2, Page No 81., Sub-Section 5.1.2. Functional & Technical Requirements for Video Display Wall	Cube Depth: Less than 600 mm	As per OEM architecture
88	RFP Vol 2, Page No. 133, Sub-Section 5.2.1.15. Functional & Technical Requirements for Scale Out Storage	Client Load Balancing: Storage System should have capability to load balance client connectivity across these multiple controllers so that all clients gets distributed across all existing controllers/nodes to avoid any performance hotspot.	Client Load Balancing: Storage System should have capability to load balance client connectivity across these multiple controllers so that all clients get distributed across all existing drives/ controllers/nodes to avoid any performance hotspot.
89	RFP Vol 2, Page No. 109, Sub-Section 5.2.1.5. Functional & Technical Requirements for AAA:(Authentication, Authorization and Accounting)	The solution should support HTTP enforcement (JSON, XML, HTTP payload) from day one	This clause stands deleted
90	RFP Vol 2, Page No. 161, Sub-Section 5.2.1.25. Functional & Technical Requirements for HIPS & NIPS	Intrusion Prevention System (IPS) should be based on purpose-built platform that has Field Programmable Gate Arrays (FPGAs). NIPS should be independent standalone and dedicated appliance-based solution, NIPS should not the part of firewall and UTM.	Intrusion Prevention System (IPS) should be based on purpose-built platform that has Field Programmable Gate Arrays (FPGAs) or should be open architecture based on multi-core cpu.

	Activity	As per RFP/ earlier Corrigenda	Revised as
91	RFP Vol 2, Page No 149, Sub- Section: 5.2.1.23. Functional & Technical Requirement for NIPS & HIPS	The IPS filters must be categories into the following categories for easy management: - Exploits, Identity Theft/Phishing, Reconnaissance, Security Policy, Spyware, Virus, Vulnerabilities, Network Equipment, Traffic Normalization, Peer to Peer, Internet Messaging, Streaming Media	The IPS filters must have multiple categories for easy management
92	RFP Vol 2, Page No. 131, Sub-Section: 5.2.1.15 Functional & Technical Requirements for Scale Out Storage	Scale-Out Storage operating system/filesystem should have distributed specialized Operating System//filesystem by OEM(s), dedicated for serving data efficiently and customized for True Scale-Out Storage. Entire data should automatically balance across proposed controllers/nodes within each tier	Scale-Out Storage operating system/filesystem should have distributed specialized Operating System/filesystem by OEM(s), Scale-Out Storage. Entire data should balance across proposed controllers/ nodes /Disk within each tier dedicated for serving data efficiently and customized for True
93	RFP Vol 2, Page No. 131, Sub-Section:5.2.1.15. Functional & Technical Requirements for Scale Out Storage	All video data should be striped across all storage controllers in the proposed storage system, so that performance of all controllers can be utilized for all read and write operations.	All video data should be distributed across all storage controllers
94	RFP Vol 2, Page No. 133-135, Sub-Section: 5.2.1.15. Functional & Technical Requirements for Unified Storage Analytics	dashboard that provides monitoring and reporting multiple storage system, VMware environment	dashboard that provides monitoring and reporting multiple storage system, 'VMware environment/ equivalent'
95	RFP Vol 2, Page No. 121, Sub-Section: 5.2.1.7 AAA	The solution should must allow for the complete separation of Authentication and Authorization sources. For example, authentication against Active Directory but authorize against Local database	The solution should provide Authentication and Authorization.
96	RFP Vol 2, Page No. 121, Sub-Section: 5.2.1.7 AAA	The solution should have policy creation tools: Policy simulation engine for testing policy integrity	The solution should support policy creation functionality

	Activity	As per RFP/ earlier Corrigenda	Revised as
97	RFP Vol 2, Page No. 122, Sub-Section: 5.2.1.7 AAA	Guest solution has ability to make changes to a visitor account's session while it is in progress.	The solution should support Standard Guest Policy Management
98	RFP Vol 2, Page No. 135, Sub-Section:5.2.1.17. Functional & Technical Requirements for Backup Appliance	Backup Solution should also have configurable ReST API support for management, administration and reporting on backup infrastructure via custom applications and out of box integration with VMWare vRealize Automation for complete orchestration.	Backup Solution should also have configurable ReST API support for management, administration and reporting with all servers including Virtualized servers
99	RFP Vol 2, Page No. 215, Sub-Section: Privilege Access Management Under Identity Management	The proposed solution should not require using third party software or hardware such as Operating Systems, Databases, High Availability, Load Balancers, etc.	The proposed solution should be appliance based/Purpose built hardware/open architecture-based solution.
100	RFP Vol 2, Page No. 215, Sub-Section.5.3 Authentication under Identity Management	The proposed solution should have pre-built rules that cover typical fraud patterns.	The proposed solution should have rules to cover fraud patterns.
101	Corrigendum 4, Pg. No. 51 OEM of ICCC	We confirm that ICCC has native frameworks for public safety technologies like FRS, Analytics, VMS, PA, Traffic congestion, ANPR, Big Data Co Relation and Community surveillance	We confirm that ICCC has Native/integration frameworks for public safety technologies like FRS, Analytics, VMS, PA, Traffic congestion, ANPR, Big Data Co Relation and Community surveillance
102	RFP Vol 2, Page No. 266, Sub-Section:7. CCTV Surveillance System	All the network cameras supplied must be certified for: FCC, CE and UL (Certificates to be enclosed)	All the network cameras supplied must be certified for: FCC, CE, UL / IEC (60950-1)/ BIS (IS 13252) (Certificates to be enclosed)
103	RFP Vol 2, Page No. 127, Sub-Section 5.2.1.12. Functional & Technical Requirements for Continuous Learning Server A.I/Training Server	Should be configured with 8nos. Of Nvidia V100 / A100 32Gb GPU	Should be configured with 2 nos. Of Nvidia V100 / A100/ SXM2 32Gb GPU with NVlink
104	RFP Vol 2, Page No. 115-118, Sub-Section: 5.2.1.8, Functional & Technical requirements for DC Switches	The switch should have at least 48 fixed 1000/10000 SFP+ ports, 4 x QSFP+ 40GbE ports.	The switch should have at least 48 fixed 1/10 G SFP+ ports, 4 or more x SFP+/QSFP28 40GbE ports or better.

	Activity	As per RFP/ earlier Corrigenda	Revised as
105	RFP Vol 2, Page No. 111, Sub-Section: 5.2.1.3. Functional & Technical Requirements for Data Centre Firewall	Support of 12 Gbps NGFW throughput all modules enabled	Support of 12 Gbps scalable to 25 Gbps NGFW throughput all modules enabled
106	RFP Vol 2, Page No. 119 Sub-Section: 5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)	Up to two Intel® Xeon® Scalable processors, up to 28 cores per processor, min. 2.0 Ghz	Two Intel® Xeon® latest gen processors, min 28 cores per processor, min. 2.0 Ghz
107	RFP Vol 2, Page No.112, Sub-Section:5.2.1.3. Functional & Technical Requirements for Data Centre Firewall	The solution should have separate management console of security policies. The firewall management console should support HA and shall be capable of managing up to 2000 NGFW nodes in future and integration with advance security (Web, Email and DLP console). The firewall shall offer centralized management with integrated log server, with options to upgrade to multi domain architecture.	The solution should have separate management console of security policies. The firewall management console should support HA and shall be capable of managing min 50 NGFW nodes in future and integration with advance security. The firewall shall offer centralized management with integrated log server, with options to upgrade to multi domain architecture.
108	RFP Vol 2, Page No 115, Sub-Section: 5.2.1.5. Functional & Technical Requirements for APT	The solution should consolidate (at centralized location) the administration, reporting, and intelligence data sharing intelligence between deployed APT Sensors.	This Clause stands deleted
109	RFP Vol 2, Page No 149, Sub-Section: 5.2.1.23. Functional & Technical Requirement for NIPS & HIPS	The IPS filters must be categories into the following categories for easy management: - Exploits, Identity Theft/Phishing, Reconnaissance, Security Policy, Spyware, Virus, Vulnerabilities, Network Equipment, Traffic Normalization, Peer to Peer, Internet Messaging, Streaming Media	The IPS filters must have multiple categories for easy management
110	RFP Vol 2, Page No 301, Sub-Section: Functional & Technical Requirements RLVD System Section / Paragraph:25 End-User Certificate	25 End-User Certificate Product should already in use with enforcement authorities and is used for generating fines. End user certificates for	End-User Certificate Product should already in use with enforcement authorities and is used for generating fines. End user certificates for proper

	Activity	As per RFP/ earlier Corrigenda	Revised as
		proper working shall be submitted.	working shall be submitted by MSI/OEM
111	RFP Vol 2, Page No. 88, Sub-Section:5.1.10. Functional & Technical Requirements for Fixed Box/Bullet Cameras	Day/Night Operation: ICR with IR range of 100m or better	Day/Night Operation: ICR with IR range of 60m or better
112	RFP Vol 2, Page No. 293, Sub-Section:7.9. Functional & Technical Requirements for Outdoor Fixed Cameras/ Bullet/Dome (HD)	Form Factor: Box Type / Bullet Camera	Form Factor: Box Type / Bullet Camera / Dome Camera
113	RFP Vol 2, Page No. 299, Sub-Section:7.11. Functional & Technical Requirements for ANPR System User Minimum Requirement	Illuminator: Integrated external Infrared capable to take images in night time and detect automatically number plate at distance of minimum 25 meters.	Illuminator: Integrated external/internal Infrared capable to take images in night time and detect automatically number plate at distance of minimum 25 meters.
114	RFP Vol 2, Page No. 301, Sub-Section:7.12. Functional & Technical Requirements RLVD System	IR Illuminator: Integrated external Infrared shall be capable to take images in night time and detect automatically number plate at distance of minimum 20 meters.	IR Illuminator: Integrated external/internal Infrared shall be capable to take images in night time and detect automatically number plate at distance of minimum 20 meters.
115	RFP Vol 2, Page No. 201, Sub-Section:5.2.3.2. Functional & Technical Specifications for Server Load Balancer	The Load Balancer device should be a dedicated Hardware Appliance with the following features: 1) Should support multiple virtual network functions/instances for future scalability. 2) The appliance shall deliver the high availability required by modern data centers. It should support Active/Passive or Active / Active HA configurations using standard VRRP protocol or equivalent. 3) The Load Balancer shall automatically synchronize configurations between the pair and automatically failover if any fault is detected with the primary unit. 4) The device should support up to 16 virtual instances/segmentation. Should have internal	The Load Balancer device should be a dedicated Hardware Appliance with the following features: 1) Should support multiple virtual network functions/instances for future scalability. 2) The appliance shall deliver the high availability required by modern data centers. It should support Active/Passive or Active / Active HA configurations using standard VRRP protocol or equivalent. 3) The Load Balancer shall automatically synchronize configurations between the pair and automatically failover if any fault is detected with the primary unit. 4) The device should support up to 8 virtual instances/segmentation. Should have internal redundant Power

	Activity	As per RFP/ earlier Corrigenda	Revised as
		redundant Power supply with 240GB usable hard disk, 16 GB RAM.	supply with 240GB usable hard disk, 16 GB RAM.
116	RFP Vol 2, Page No. 132, Sub-Section:5.2.1.5 functional & technical requirement of Scale out Storage	The scale out storage should be offered with minimum 20 x 10Gbps SFP+ ports, and should be scalable to 2x the number of offered ports	The scale out storage should be offered with minimum 12 x 10Gbps SFP+ ports, and should be scalable to 2x the number of offered ports
117	RFP Vol 2, Page No. 129, Sub-Section Functional & Technical Requirements for Blade Chassis	The Chassis should have redundant FC switches, each switch should have 4 no. of 32Gbps or better FC uplinks to SAN	The Chassis should have redundant FC / converged switch, each switch should have 4 no. of 32Gbps or better FC uplinks to SAN
118	RFP Vol 2, Page No. 119, Sub-Section 5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server) - Hard Drives	2 x 1.2TB 10K RPM SAS HDD in RAID-1 for RAID -1 for data Server should be configured with integrated RAID controller to support RAID level 0,1,5,6 on internal disks, Server should have 2 or more nos. of 2.5inch HDD bays	2 x 1.2TB 10K RPM SAS HDD in RAID-1 "
119	RFP Vol 2, Page No. 119, Sub-Section 5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server) - Ethernet ports	2 * 25GbE or better network ports for ethernet	2 * 20GbE / 4 * 10GbE Converged port" or better.
120	RFP Vol 2, Page No. 119, Sub-Section 5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server) - FC ports	2 * 32Gbps or better FC ports	2 * 32Gbps or better FC ports OR 4 * 10GbE Converged port" or better.
121	RFP Vol 2, Page No. 120, Sub-Section 5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)- Configuration & management	Agent-free monitoring, driver updates & configuration, power monitoring & capping, RAID management, external storage management, monitoring of FC, HBA & CNA & system health	Agent-free monitoring, driver updates & configuration, power monitoring & capping, RAID management, Hardware compatibility check, monitoring of I/O cards & system health.
122	RFP Vol 2, Page No. 120, Sub-Section 5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and	Minimum of 3 PCI expansions/Mezzanine expansions.	Minimum of 2 PCI expansions/Mezzanine expansions

	Activity	As per RFP/ earlier Corrigenda	Revised as
	A.I./Training Server)- Systems Management Software		
123	RFP Vol 2, Page No. 120, Sub-Section 5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)- Systems Management Software	The server should come with systems management software to provide update management, configuration management, patch management and virtualization management.	The server should come with systems management software to provide update management, configuration management and patch management.
124	RFP Vol 2, Page No. 127, Sub-Section 5.2.1.12. Functional & Technical Requirements for Continuous Learning Server A.I/Training Server -GPU Support	Should support up to 10 GPU's	Should support up to SXM2/NVLink based 8GPU's
125	RFP Vol 2, Page No. 127, Sub-Section 5.2.1.12. Functional & Technical Requirements for Continuous Learning Server A.I/Training Server -PCI Slots (I/O)	10 x PCIe 2.0/3.0 slots	4 x PCIe 2.0/3.0 slots.
126	RFP Vol 2, Page No. 128, Sub-Section 5.2.1.13. Functional & Technical Requirements for Blade Chassis-Management Modules	The blade chassis should be configured with Hot swap IP based KVM Switch for Management or KVM Management should be integrated in Remote Management Controller.	The blade solution should be configured with IP based KVM functionality for Management or KVM Management should be integrated in Remote Management Controller.
127	RFP Vol 2, Page No. 129, Sub-Section 5.2.1.13. Functional & Technical Requirements for Blade Chassis-Ethernet Switches	The Chassis should have redundant Ethernet switches, each switch should have 4 no. of 10Gb or better uplinks.	The Blade solution should have redundant Ethernet/Converged switches, each switch should have 4 no. of 10Gb SFP+ or better uplinks.
128	RFP Vol 2, Page No. 113, Sub-Section 5.2.1.7. Functional & Technical Requirements for DC Core Switch	The connected servers or switches should be attached using standard LACP for automatic load balancing and high availability	The connected servers or switches should be attached using standard LACP or equivalent for automatic load balancing and high availability
129	RFP Vol 2, Page No. 115, Sub-Section 5.2.1.8. Functional & Technical Requirements for DC Switches	The connected servers or switches should be attached using standard LACP for automatic load balancing and high availability.	The connected servers or switches should be attached using standard LACP or equivalent for automatic load balancing and high availability

	Activity	As per RFP/ earlier Corrigenda	Revised as
130	RFP Vol 2, Page No. 116, Sub-Section 5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support Jumbo frames on Gigabit Ethernet and 10-Gigabit ports	The Switch should support Jumbo frames on Gigabit Ethernet
131	RFP Vol 2, Page No. 266, Sub-Section 7. CCTV Surveillance System	Additional Specification	All the network cameras should have Vandal Proof IK10 or above rated and IP66 or better rated Housing. Bidder have to submit the test reports of both IK10 & IP66 along with technical bid
132	RFP Vol 2, Page No. 266, Sub-Section 7. CCTV Surveillance System	Additional Specification	All the network cameras should be IPv6 ready from day one.
133	RFP Vol 2, Page No. 100, Sub-Section 5.2.1.1. Functional & Technical Requirements for Core Router	Protocol: DHCP, IP Multicast, PIM SM, PIM SSM, IGMP, MLD, RP, Next generation Multicast using MPLS LSP, IS- IS, HQOS (64 K queues), LDP, MPLS, MPLS FRR, L2 VPN, L3 VPN, VPLS, Differ TE, RIP V 2, OSPF, VXLAN, BGP, NAT	Protocol: DHCP, IP Multicast, PIM SM, PIM SSM, IGMP, MLD, RP, Next generation Multicast using MPLS LSP, IS-IS, HQOS (64 K queues), LDP, MPLS, MPLS FRR, L2 VPN, L3 VPN, VPLS, Differ TE, RIP V 2, OSPF, VXlan, BGP
134	RFP Vol 2, Page No. 101, Sub-Section 5.2.1.2. Functional & Technical Requirements for Internet Router	Interface Requirement: 10 X 1 Gig Base SFP interface and 8 X 10Gig interface (The optics should be populated from day one) and Chassis should have at least 4 free main slot (not dauther slots) to scale in future to support additional 10Gig interface, 40G QSFP+ & 100G SFP28/CFP2 interface as per the requirement.	Interface Requirement: 10 X 1 Gig Base SFP interface and 8 X 10Gig interface (The optics should be populated from day one) and Chassis should have at least 2 free main slots (not dauther slots) to scale in future to support additional 10Gig interface, 40G QSFP+ & 100G SFP28/CFP2 interface as per the requirement.
135	RFP Vol 2, Page No. 293, Sub-Section 7.9. Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome (HD)	Lens: External Varifocal Lens for Box Camera (5 mm to 50 mm) / For Dome & Bullet Motorized (2.8 - 12 mm) or as per field requirement to achieve the required FoV	Lens: External/Internal Varifocal Lens for Box /Bullet Camera (5 mm to 50 mm) / For Dome Motorized (2.8 - 12 mm) or as per field requirement to achieve the required FoV
136	RFP Vol 2, Page No. 112, Sub-Section 5.2.1.7. Functional & Technical	Shall have up to 4 Tbps switching capacity and the chassis	Chassis shall have switching capacity of 4 Tbps or above.

	Activity	As per RFP/ earlier Corrigenda	Revised as
	Requirements for DC Core Switch		
137	RFP Vol I, Page No. 39 Sub-Section f. OEM of Storage	OEM should have successfully completed at least two orders for supply and installation of minimum 10 PiB scale out NAS Storage in Safe Cities/Smart Cities projects in India.	OEM should have successfully completed at least two orders for supply and installation of minimum 10 PiB scale out NAS Storage in Safe Cities/Smart Cities/Pan City Projects- in State/Central Government.
138	RFP Vol 2, Page No. 112, Sub-Section 7.5. Functional & Technical Requirements for Facial Recognition System - Algorithm Benchmarking	The Vendor should have any performance benchmarking certificate. NIST certificate will be preferred.	The Vendor should have benchmarking algorithm certificate.
139	Corrigendum 4, Page No. 51 OEM of ICCC, ANNEXURE-11: Manufacturers' Authorization Form	We will provide well documented SDK for further developments and integration with 3rd party systems along with online support portal outlining all the 3rd party integrations and 24/7 support on API / SDK package	We will provide well documented API/SDK for further developments and integration with 3rd party systems along with online support outlining all the 3rd party integrations and SLA based support on API / SDK package.

Other terms and conditions shall remain unchanged.

Note: - वेबसाईट **http://www.eproc.bihar.gov.in** पर **Department Name** में **Patna Smart City Limited** को Select करने पर ही ई–निविदा को देखा जा सकता है।

18/6/2021

Managing Director
Patna Smart City Limited
-cum-
Municipal Commissioner
Patna Municipal Corporation