

Addendum - 6

Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
1	27	Volume-I, Section-2.2.2 Technical Qualification cum Evaluation Criteria, Sr. No. 3.5	ERP and E- Governance Expert – Bachelor in Engineering (Information Technology/ Computer Engineering/ Electronics & Communication/ Computer Science)) and MCA/ M. Tech /M. E/M. S having minimum 10 years of experience in designing, implementing and integrating various ERP modules including finance, asset management, inventory management, utility billing and maintenance, etc. Must have at least five (5) relevant projects. ERP and e-Governance expert shall be a full-time employee of the MSI/Consortium Bidder.	ERP and E- Governance Expert – Bachelor in Engineering (Information Technology/ Computer Engineering/ Electronics & Communication/ Computer Science)) or MCA/ M. Tech /M. E/M. S having minimum 10 years of experience in designing, implementing and integrating various ERP modules including finance, asset management, inventory management, utility billing and maintenance, etc. Must have at least five (5) relevant projects. ERP and e-Governance expert shall be a full-time employee of the MSI/Consortium Bidder.

REQUEST FOR QUALIFICATION (RFQ) CUM REQUEST FOR PROPOSAL (RFP) FOR APPOINTMENT OF MASTER SYSTEM INTEGRATOR FOR DESIGN, SUPPLY, INSTALL, TEST, INTEGRATE, COMMISSIONING, OPERATION AND MAINTENANCE OF ICT COMPONENTS IN CLUSTER A1 OF ACTIVATION AREA

Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
2	26	Volume-I, Section-2.2.2 Technical Qualification cum Evaluation Criteria, Sr. No. 3.1	Project Director - Bachelor of Engineering degree and preferably having MBA/M.Tech/MS and having more than 15 years of experience in implementation and management of similar IT/ ICT projects involved in complete project lifecycle. Must have at least five (5) relevant projects (Network, Datacenter ERP or command and control centre). Project Director shall be a full-time employee of the MSI/Consortium Bidder.	Project Director - Bachelor of Engineering degree and preferably having MBA/M.Tech/MS/ PGDBM and having more than 15 years of experience in implementation and management of similar IT/ ICT projects involved in complete project lifecycle. Must have at least five (5) relevant projects (Network, Datacenter, ERP or command and control centre). Project Director shall be a full-time employee of the MSI/Consortium Bidder.
3	26	Volume-I, Section-2.2.2 Technical Qualification cum Evaluation Criteria, Sr. No. 3.2	Project Manager - Bachelor of Engineering degree (Information Technology/ Computer Engineering/ Electronics & Communication/ Computer Science) and preferably having MBA / M. Tech /MS with PMP/ PRINCE 2 having more than 12 years of experience in similar ICT projects and involved in end-to-end implementation. Must have at least three (3) relevant projects (e-governance, ERP or command or control centre). Project Manager shall be a full-time employee of the MSI/Consortium Bidder.	Project Manager - Bachelor of Engineering degree (Information Technology/ Computer Engineering/ Electronics & Communication/ Computer Science) and preferably having MBA / M. Tech /MS/ PGDBM with PMP/ PRINCE 2 having more than 12 years of experience in similar ICT projects and involved in end-to-end implementation. Must have at least three (3) relevant projects (e-governance, ERP or command or control centre).

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				Project Manager shall be a full-time employee of the MSI/Consortium Bidder.
4	27	Volume-I, Section-2.2.2 Technical Qualification cum Evaluation Criteria, Sr. No. 3.4	Solution Architect – Bachelor of Engineering degree (Information Technology/ Computer Engineering/ Electronics & Communication/ Computer Science) and M.E/M Tech/MS having more than 15 years of experience in designing and implementing Smart City projects similar to the project requirements. Must have at least three (2) relevant projects (Smart City Projects). Solution Architect shall be a full-time employee of the MSI/Consortium Bidder.	Solution Architect – Bachelor of Engineering degree (Information Technology/ Computer Engineering/ Electronics & Communication/ Computer Science) or M.E/M Tech/MS having more than 15 years of experience in designing and implementing Smart City projects similar to the project requirements. Must have at least three (2) relevant projects (Smart City Projects). Solution Architect shall be a full-time employee of the MSI/Consortium Bidder.

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
5	28	Volume-I, Section-2.2.2 Technical Qualification cum Evaluation Criteria, Sr. No. 3.6	Integrated Operation Platform Expert – Bachelor in Engineering (Information Technology/ Computer Engineering/ Electronics & Communication/ Computer Science) and MCA/M.Tech/M. E/M.S. having more than 8 years of experience in integrating multiple sensors at the command and control centre at city-wide/ campus-wide deployment. Must have at least two (2) relevant projects. Integrated Operation Platform Expert shall be a full-time employee of the MSI/Consortium Bidder.	Integrated Operation Platform Expert – Bachelor in Engineering (Information Technology/ Computer Engineering/ Electronics & Communication/ Computer Science) or MCA/M.Tech/M. E/M.S. having more than 8 years of experience in integrating multiple sensors at the command and control centre at city-wide/ campus-wide deployment. Must have at least two (2) relevant projects. Integrated Operation Platform Expert shall be a full-time employee of the MSI/Consortium Bidder.
6	154	Volume-II, Section-3.2.1 ERP Suite of applications	ERP Solution: Proposed ERP System should be open-source with enterprise support for 5 years from the date of Go-Live. “Open-Source ERP” means software for which the source code is made freely available and may be redistributed and modified. Bespoke or owned developed solution will not be considered and accepted.	ERP Solution: Proposed ERP System should be Open-Source only with enterprise support for 5 years from the date of Go-Live. “Open-Source ERP” means software for which the source code is made freely available and may be redistributed and modified. Bespoke or owned developed solution will not be considered and accepted.

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
7	153	Volume-II, Section-3.1.10 Enterprise and Network Management System, EMS-FR 1.14	To ensure EMS doesn't introduce any unsolicited security loopholes and concerns into DSIR, only SNMP v3 compliant devices must be integrated with the EMS systems and the MSI should ensure that non-standard ports and non-standard community strings are always used where possible.	To ensure EMS doesn't introduce any unsolicited security loopholes and concerns into DSIR, SNMP v1, v2 & v3 compliant devices must be integrated with the EMS systems and the MSI should ensure that non-standard ports and non-standard community strings are always used where possible.
8	87	Volume-II, Section-3.1.4 City Integrated Operations Platform, IoT Building Blocks	<u>IoT core services Layer</u> IoT core service layer must play an orchestration role in CIOP to manage devices, enables secure connection, logs device activity, controls device operations like FOTA/COTA.	<u>IoT core services Layer</u> IoT core service layer must play an orchestration role in CIOP to manage devices, enables secure connection, logs device activity, controls device operations.
9	123	Volume-II, Section-3.1.5 Basic surveillance solution, CIO-Camera-1.2	HD PTZ must support High-Profile H.264 compression, a vast improvement in quality over MPEG-4 and 20 times more efficient than M-JPEG.	HD PTZ must support High-Profile H.265, H.264 compression, a vast improvement in quality over MPEG-4 and 20 times more efficient than M-JPEG.
10	122	Volume-II, Section-3.1.5 Basic Surveillance Solution, CIO-SD-1.158	The HD video decoder must decode H.264 in High, Main, or Base profiles, and MPEG-4 encoded video streams.	The HD video decoder must decode H.264, H.265 in High, Main, or Base profiles, and MPEG-4 encoded video streams.

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
11	122	Volume-II, Section-3.1.5 Basic Surveillance Solution, CIO- SD-1.159	The HD video decoder capability to decode up to sixteen 4CIF resolution, 30 images per second (IPs) MPEG-4 encoded video streams simultaneously, or up to twelve H.264 Baseline, 4CIF resolution, 30 IPs video streams simultaneously, or up to four 1080p streams encoded in H.264 Baseline profile. Additional streams must be decoded using the network bandwidth consumption and CPU processing requirements by automatically subscribing to a lower resolution, lower bit-rate stream from a given camera depending on current load and screen configuration.	The HD video decoder capability to decode up to sixteen 4CIF resolution, 30 images per second (IPs) MPEG-4 encoded video streams simultaneously, or up to twelve H.264 , H.265 Baseline, 4CIF resolution, 30 IPs video streams simultaneously, or up to four 1080p streams encoded in H.264 , H.265 Baseline profile. Additional streams must be decoded using the network bandwidth consumption and CPU processing requirements by automatically subscribing to a lower resolution, lower bit-rate stream from a given camera depending on current load and screen configuration.
12	112	Volume-II, Section-3.1.5 Basic Surveillance Solution, CIO- SD-1.12	The system must be built upon open, industry standards and facilitates integration with IT infrastructures and other digital and analog systems. Towards this, the system provides an API/SDK that is capable of being used at a level consistent with a full-featured gateway. The gateway provides a RS-232 ASCII interface, Ethernet interface, and the ability to create custom plug-ins to the system user interface.	The system must be built upon open, industry standards and facilitates integration with IT infrastructures and other digital and analog systems. Towards this, the system provides an API/SDK that is capable of being used at a level consistent with a full-featured gateway. The gateway provides a RS-232 interface , Ethernet interface, and the ability to create custom plug-ins to the system user interface.

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
13	199	Volume-II, Section-3.2.6 City Applications- Multi service kiosk	MSI should submit the business model for Kiosk system for DSIR.	The said functionality stands deleted
14	307	Volume-II, Section-3.8 Technical Specifications : Network Firewall (NGFW), Performance Requirement, Sr. No. 5	The proposed solution must support at least 200,000 new session per second	The proposed solution must support at least 400,000 new session per second
15	317	Volume-II, Section-3.8 Technical Specifications : Blade Servers, Sr. No. 7	It should have 40 Gb connectivity per server with a minimum of 2 ports , which is expandable to 80 Gb connectivity per server	It should have 10 Gb connectivity per server with a minimum of 2 ports , which is expandable to 20 Gb connectivity per server
16	307	Volume-II, Section-3.8 Technical Specifications : Network Firewall (NGFW), Performance	The proposed solution must have 5Gbps of VPN throughput and should support at least 100 IPSec VPN 200 SSL VPN Users from Day one.	The proposed solution must have 10Gbps of VPN throughput and should support at least 100 IPSec VPN 200 SSL VPN Users from Day one.

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
		Requirement, Sr. No. 7		
17	307	Volume-II, Section-3.8 Technical Specifications : Network Firewall (NGFW), Performance Requirement, Sr. No. 8	OEM must be EAL4/ ICSA/ FIPS 4.0 certified.	OEM must be EAL4/ ICSA/ FIPS 4.0/ NDPP/Common Criteria certified
18	305	Volume-II, Section-3.8 Technical Specifications : Network Firewall (NGFW), Sr. No. 1	The proposed solution must allow policy rule creation for application control, user based control, host profile, threat prevention, Anti-virus, file filtering, content filtering, QoS and scheduling using single dashboard.	The proposed solution must allow policy rule creation for application control, user based control, host profile/check , threat prevention, Anti-virus/Anti-malware , file filtering, content filtering, QoS and scheduling using single dashboard.
19	305	Volume-II, Section-3.8 Technical Specifications : Network Firewall (NGFW), Sr. No. 10	The administrator must be able to view report on the CPU usage	The administrator must be able to view report on the CPU usage/utilization of Firewall .

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
20	306	Volume-II, Section-3.8 Technical Specifications : Network Firewall (NGFW), Sr. No. 26	Solution must provide change control and baseline deviation mechanisms. It must provide visibility in traffic pattern changes in last one hour, one day and compare this with last one day, one week and one month traffic patterns.	The said functionality stands deleted
21	307	Volume-II, Section-3.8 Technical Specifications : Network Firewall (NGFW), Sr. No. 38	The proposed solution shall support packet captures based on: <ul style="list-style-type: none"> - Applications, IP - any threat/port/protocol - data-filters 	The proposed solution shall support packet captures based on: <ul style="list-style-type: none"> - Applications/IP - any threat/port/protocol - data-filters/interface
22	306	Volume-II, Section-3.8 Technical Specifications : Network Firewall (NGFW), Sr. No. 20	Solution must have at least 2 virtual systems. Every Virtual system must support individual separate configuration for separate DNS entries and other service routes for access to NTP, Syslog, SNMP, Proxy, AV, IPS etc. Every virtual system must support individual routes through virtual system specific interfaces to access all these services.	Solution must have at least 2 virtual systems. Every Virtual system must support individual separate configuration for security services like AV, IPS, NTP, Syslog . Every virtual system must support individual routes through virtual system specific interfaces to access all these services.
23	336	Volume-II, Section-3.8 Technical Specifications :	Video Compression : H.264 Baseline and Main Profile & Motion JPEG video compression	Video Compression : H.264, H.265 Baseline and Main Profile & Motion JPEG video compression

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
		Box Camera (Surveillance), Sr. No. 15		
24	337	Volume-II, Section-3.8 Technical Specifications : Box Camera (Surveillance), Sr. No. 22	Pv4/v6, HTTP, HTTPSb, SSL/TLSb, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SNMPv1/v2c/v3, DNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP/Protocol should meet all functional requirement of project	Pv4/v6, HTTP, HTTPS, SSL/TLS , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SNMPv1/v2c/v3, DNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP/ Protocol should meet all functional requirement of project
25	316	Volume-II, Section-3.8 Technical Specifications : Blade Chassis and Management, Sr. No. 13	TOR Unified Port Switch	TOR Unified Port Switch/ Switches within Chassis
26	317	Volume-II, Section-3.8 Technical Specifications : Blade Chassis and Management, Sr. No. 14	Vendor must quote pair of TOR FCoE enabled switch and having minimum ports to support connectivity of set of 32 Blades. FCoE TOR switch must in turn connect to existing LAN core / Aggregation switch using 10 Gig SFP+ / 40 Gig SFP+ connectivity and SAN core director switch using line rate 16 Gbps FC ports.	Vendor must quote set of FC/FCoE enabled Switch within chassis/ TOR / Interconnect module having minimum ports to support connectivity of all blades in a chassis . Switch must in turn connect to LAN core / Aggregation switch using 10Gig SFP+ connectivity and SAN switch using

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
				line rate of 8 Gbps or higher FC/FCoE ports.
27	317	Volume-II, Section-3.8 Technical Specifications : Blade Chassis and Management, Sr. No. 15	Vendor should quote dual FCoE TOR switch for every 32 servers	The said specification stands deleted.
28	317	Volume-II, Section-3.8 Technical Specifications : Blade Servers, Sr. No. 8	It should have two adapters per server to support above for card level redundancy	The said specification stands deleted.
29	317	Volume-II, Section-3.8 Technical Specifications : Blade Chassis and Management, Sr. No. 18	Should support up to 1000 secondary VLANs per pair of switches	The said specification stands deleted
30	323	Volume-II, Section-3.8 Technical Specifications :	Compression on SSD, Snapshot, restore snapshot, Cloning and application & VM aware backup. Quality of Service, Software for IOPS/Response Time and bandwidth. Should be supplied as per solution and requirement.	Compression on SSD/ Flash drive , Snapshot, restore snapshot, Cloning and application & VM aware backup. Quality of Service,

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
		Unified Backup Storage, Sr. No. 18		Software for IOPS/Response Time and bandwidth. Should be supplied as per solution and requirement.
31	322	Volume-II, Section-3.8 Technical Specifications : Unified Storage, Sr. No. 19	Compression on SSD, Snapshot, restore snapshot, Cloning and application & VM aware backup., Quality of Service, Software for IOPS/Response Time and bandwidth. Should be supplied as per solution and requirement.	Compression on SSD/ Flash drive , Snapshot, restore snapshot, Cloning and application & VM aware backup, Quality of Service, Software for IOPS/Response Time and bandwidth. Should be supplied as per solution and requirement.
32	321	Volume-II, Section-3.8 Technical Specifications : Unified Storage, Sr. No. 7	The storage system should have minimum 384 GB DRAM cache per controller.	The storage system should have minimum 768 GB DRAM cache across all controllers .
33	317	Volume-II, Section-3.8 Technical Specifications : Blade Chassis and Management, Sr. No. 17	Should support up to 50 primary VLANs per pair of switches	The said specification stands deleted

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
34	317	Volume-II, Section-3.8 Technical Specifications : Blade Chassis and Management, Sr. No. 19	Should support up to 2000 active VLANs and VSANs per pair of switches	The said specification stands deleted
35	317	Volume-II, Section-3.8 Technical Specifications : Blade Chassis and Management, Sr. No. 20	Supports up to 12 uplink port channels per switch module	The said specification stands deleted
36	317	Volume-II, Section-3.8 Technical Specifications : Blade Chassis and Management, Sr. No. 21	Supports up to 16 member interfaces per port channel	The said specification stands deleted
37	317	Volume-II, Section-3.8 Technical Specifications : Blade Chassis and	Supports up to 16 interfaces per FCoE port channel	The said specification stands deleted

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
		Management, Sr. No. 22		
38	317	Volume-II, Section-3.8 Technical Specifications : Blade Chassis and Management, Sr. No. 23	Supports up to 4 SAN port channels	The said specification stands deleted
39	317	Volume-II, Section-3.8 Technical Specifications : Blade Chassis and Management, Sr. No. 24	Supports up to 16 port channel members per SAN port channel	The said specification stands deleted
40	317	Volume-II, Section-3.8 Technical Specifications : Blade Chassis and Management, Sr. No. 25	Supports up to 16 native FC uplinks	The said specification stands deleted

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
41	317	Volume-II, Section-3.8 Technical Specifications : Blade Chassis and Management, Sr. No. 26	Supports a maximum of 4 active SPAN session per switch	The said specification stands deleted
42	317	Volume-II, Section-3.8 Technical Specifications : Blade Chassis and Management, Sr. No. 27	It should support the direct connection to FC , FCoE enabled storage arrays and NAS , iSCSI based arrays	The said specification stands deleted
43	344	Volume-II, Section-3.8 Technical Specifications : Camera Type 3 - Dome Camera (Command Center), Sr. No. 22	IPv4/v6, HTTP, HTTPSb, SSL/TLSb, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, , SNMPv1/v2c/v3, DNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP/Protocol should meet all functional requirement	IPv4/v6, HTTP, HTTPS , SSL/ TLS , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, , SNMPv1/v2c/v3, DNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP/Protocol should meet all functional requirement
44	337	Volume-II, Section-3.8 Technical Specifications : PTZ Camera	H.264, MJPEG (dual)	H.264, H.265 , MJPEG (dual)

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
		(Surveillance), Sr. No. 14		
45	337	Volume-II, Section-3.8 Technical Specifications : PTZ Camera (Surveillance), Sr. No. 21	IPv4/v6, HTTP, HTTPSb, SSL/TLSb, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SNMPv1/v2c/v3, DNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP/Protocol should meet all functional requirement of project	IPv4/v6, HTTP, HTTPS , SSL/ TLS , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SNMPv1/v2c/v3, DNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP/ Protocol should meet all functional requirement of project
46	324	Volume-II, Section-3.8 Technical Specifications : Industrial Ethernet Switch (Industrial Grade), Sr. No. 24	IGMPv1/v2/v3, GMRP/MVR or equivalent, GVRP/VTP or equivalent, SNMPv1/v2c/v3, DHCP Server/Client, DHCP Option82, BootP, TFTP, SNTP/NTP, SMTP/SNMP RARP , HTTP, HTTPS, Telnet, SSH, Syslog, Ethernet/PROFINET/IP, Modbus/TCP, LLDP, IEEE 1588, IPv6, NTP	IGMPv1/v2/v3, GMRP/MVR or equivalent, GVRP/VTP or equivalent, SNMPv1/v2c/v3, DHCP Server/Client, DHCP Option82, BootP, TFTP, SNTP/NTP, SMTP/SNMP HTTP, HTTPS/SSH , Telnet, Syslog, Ethernet/PROFINET/IP, Modbus/TCP, LLDP, IEEE 1588, IPv6, NTP
47	325	Volume-II, Section-3.8 Technical Specifications : Industrial Ethernet Switch (Industrial	Rail Traffic: EN 50121-4	The said specification stands deleted

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
		Grade), Sr. No. 39		
48	319	Volume-II, Section-3.8 Technical Specifications : Network Access Control & Authentication System, Sr. No. 22	Proposed solution should be able to create TACACS+ or RADIUS authorization policy for device administrator containing specific lists of commands a device admin can execute. Command sets should support; exact match, case sensitive, (any character), * (matches any), etc. and support stacking as well	Proposed solution should be able to create TACACS+ or RADIUS authorization policy for device administrator containing specific lists of commands a device admin can execute.
49	315	Volume-II, Section-3.8 Technical Specifications : SA Access Switch (POE+), Sr. No. 4	Support for at least 4k VLANs & 30k MAC address	Support for at least 4k VLANs & 16k MAC address
50	316	Volume-II, Section-3.8 Technical Specifications : SA Access Switch (POE+), Sr. No. 24	The Switch should be EAL3/ NDPP certified.	The Switch should be EAL3/ NDPP / UL certified
51	315	Volume-II, Section-3.8 Technical Specifications : SA Distribution	Should support RIPv2 , OSPF, IS-IS and BGPv4, LDP, BFP, MPLS routing protocols & IP multicast routing protocols: PIM , IGMP and Layer 2 circuits	Should support OSPF, BGPv4, LDP & IP multicast routing protocols: PIM , IGMP and Layer 2 circuits

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
		Device/Switch, Sr. No. D1		
52	297	Volume-II, Section-3.8 Technical Specifications : Server Room Core Router, Sr. No. A1	The router architecture should be based on hardware based forwarding and switching. System should be multi-processor based architecture for enhanced performance	The router architecture should be based on hardware based forwarding and switching. System should be multi-core /multi-processor based architecture for enhanced performance
53	297	Volume-II, Section-3.8 Technical Specifications : Server Room Core Router, Sr. No. B8	Router should support for different logical interface types like loopback, GRE and IPIP tunnel, VLAN etc.	Router should support for different logical interface types like loopback, GRE and IPIP tunnel/ IPSec tunnel , VLAN etc.
54	297	Volume-II, Section-3.8 Technical Specifications : Server Room Core Router, Sr. No. C9	IP V.6 host and IP V.6 routing	IP V6 host/IPV6 Neighbour discovery and IP V6 routing
55	298	Volume-II, Section-3.8 Technical Specifications : Server Room	Should be compliant to RFC 4760 Multiprotocol Extensions for BGP-4 (Desirable)	Should be compliant to RFC 4760/ RFC 2283 Multiprotocol Extensions for BGP-4 (Desirable)

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
		Core Router, Sr. No. D1.7		
56	298	Volume-II, Section-3.8 Technical Specifications : Server Room Core Router, Sr. No. D6.3	MBGP, DVMRP or equivalent	MBGP, DVMRP/ PIM or equivalent
57	298	Volume-II, Section-3.8 Technical Specifications : Server Room Core Router, Sr. No. E2	Router should automatically failover of primary interface status change or remote network not reachable to the secondary link connectivity using real time parameters (IP SLA)	Router should automatically failover of primary interface status change or remote network not reachable to the secondary link connectivity using real time parameters (IP SLA or equivalent)
58	298	Volume-II, Section-3.8 Technical Specifications : Server Room Core Router, Sr. No. E3	Router should provide gateway level of redundancy in IPV4 and IPV6 using HSRP/VRRP & NHRP/equivalent for VPN	Router should provide gateway level of redundancy in IPV4 and IPV6 using HSRP/VRRP & NHRP/ Group Domain VPN / equivalent for VPN
59	299	Volume-II, Section-3.8 Technical Specifications : Server Room	Router should support for packet classification and fragmentation for providing end to end QoS treatment	Router should support for packet classification/ fragmentation for providing end to end QoS treatment

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
		Core Router, Sr. No. F6		
60	299	Volume-II, Section-3.8 Technical Specifications : Server Room Core Router, Sr. No. F7	Router should support hierarchical QoS for providing granular policy per application basis for providing bandwidth provisioning and management	Router should support hierarchical QoS for providing granular policy per application basis/ deep packet inspection basis for providing bandwidth provisioning and management
61	299	Volume-II, Section-3.8 Technical Specifications : Server Room Core Router, Sr. No. H1	Router should support for sending logs to multiple centralized syslog server for monitoring and audit trail	Router should support for sending logs to centralized syslog server for monitoring and audit trail
62	299	Volume-II, Section-3.8 Technical Specifications : Server Room Core Router, Sr. No. H3	Solution should support for capturing packets for identifying application performance using remote port mirroring for packet captures or should support netflow/Jflow	Solution should support for capturing packets for identifying application performance using remote port mirroring for packet captures or should support netflow/Jflow/ Sflow
63	299	Volume-II, Section-3.8 Technical Specifications : Server Room	Router should support for management and monitoring status using different type of Industry standard NMS using: a. SNMP V1 and V.2 b. SNMP V.3 c. Filtration of SNMP using Access list	Router should support for management and monitoring status using different type of Industry standard NMS using: a. SNMP V1 and V.2

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
		Core Router, Sr. No. H4	d. SNMP MIB support for QoS	b. SNMP V.3 c. Filtration of SNMP using Access list or equivalent d. SNMP MIB
64	299	Volume-II, Section-3.8 Technical Specifications : Server Room Core Router, Sr. No. H6	Router should support central time server synchronization using Network Time Protocol NTP V3 and V.4	Router should support central time server synchronization using Network Time Protocol NTP V3/ V4
65	300	Volume-II, Section-3.8 Technical Specifications : Server Room Core Router, Sr. No. I9	Router should support for IP V.6 different type of application usage like: a. HTTP b. HTTPS c. ICMP d. TCP/UDP e. DNS lookup f. DHCP	Router should support for IP V.6 different type of application usage like: a. HTTP/ HTTPS b. ICMP c. TCP/UDP d. DNS lookup e. DHCP
66	318	Volume-II, Section-3.8 Technical Specifications : Network Access Control & Authentication System, Sr. No. 12	The Solution should have capability to collect endpoint attribute data via passive network telemetry, querying the actual endpoints, or alternatively from the infrastructure via device sensors on switches.	The Solution should have capability to collect endpoint attribute data.

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
67	314	Volume-II, Section-3.8 Technical Specifications : SA Distribution Device/Switch, Sr. No. B1	The device should be modular in architecture and should have redundant Power Supply and should support redundant supervisor	The device should be modular in architecture and should have redundant Power Supply
68	315	Volume-II, Section-3.8 Technical Specifications : SA Distribution Device/Switch, Sr. No. E2	The device should support congestion management and queuing techniques like Priority Scheduling, WRED, LLQ, etc.	The device should support congestion management and queuing techniques like Priority Scheduling, WRED/LLQ / Deficit Weighted Round Robin (DWRR)/ Queuing mechanisms
69	315	Volume-II, Section-3.8 Technical Specifications : SA Access Switch (POE+), Sr. No. 6	It should have static IP routing, RIP, RIPnG , OSPF, OSPFv3, PIM and vrf lite from day 1	It should have static IP routing, OSPF, OSPFv3, PIM from day 1
70	304	Volume-II, Section-3.8 Technical Specifications : Server Room WAN Switch, Sr. No. 8	It should have static IP routing, RIP, RIPnG , OSPF, OSPFv3, PIM and vrf lite from day 1	It should have static IP routing, OSPF, OSPFv3, PIM, BGP from day 1

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
71	304	Volume-II, Section-3.8 Technical Specifications : Server Room WAN Switch, Sr. No. 11	Should support IP source guard & DAI	Should support IP source guard & DAI/ Dynamic ARP Protection
72	304	Volume-II, Section-3.8 Technical Specifications : Server Room WAN Switch, Sr. No. 20	IEEE 802.3 10BASE-T specification	The said specification stands deleted
73	305	Volume-II, Section-3.8 Technical Specifications : Server Room WAN Switch, Sr. No. 21	IEEE 802.3u 100BASE-TX specification	The said specification stands deleted
74	305	Volume-II, Section-3.8 Technical Specifications : Server Room WAN Switch, Sr. No. 24	The Switch should be EAL3/ NDPP certified	The Switch should be EAL3/ NDPP / UL certified

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
75	304	Volume-II, Section-3.8 Technical Specifications : Server Room WAN Switch, Sr. No. 14	Management using CLI, GUI using Web interface should be supported	Management using CLI, GUI/Web interface should be supported
76	211	Volume-II, Section-3.8 Technical Specifications : Server Room Access Switch, Sr. No. C1	The switch should support 50,000 IPv4 and IPv6 routes entries in the routing table and multicast routes 8,000	The switch should support 50,000 IPv4 and IPv6 routes entries in the routing table and minimum multicast routes of 2,000
77	312	Volume-II, Section-3.8 Technical Specifications : Server Room Access Switch, Sr. No. E3.3	ISIS using MD5 Authentication	The said specification stands deleted
78	312	Volume-II, Section-3.8 Technical Specifications : Server Room Access Switch, Sr. No. E6	Switch should be capable to work as DHCP server and relay	Switch should be capable to work as DHCP server/ relay

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
79	312	Volume-II, Section-3.8 Technical Specifications : Server Room Access Switch, Sr. No. E7	Switch should provide multicast traffic reachable using: a. PIM-SM b. PIM-SSM d. Support RFC 3618 Multicast Source Discovery Protocol (MSDP) e. IGMP V.1, V.2 and V.3	Switch should provide multicast traffic reachable using: a. PIM-SM b. PIM-SSM/ PIM-DM d. Support RFC 3618 Multicast Source Discovery Protocol (MSDP) e. IGMP V.1, V.2 and V.3
80	313	Volume-II, Section-3.8 Technical Specifications : Server Room Access Switch, Sr. No. F3	Switch should support For Fast Failure Detection as per RFC 5880	Switch should support For Fast Failure Detection as per RFC 5880 or equivalent
81	313	Volume-II, Section-3.8 Technical Specifications : Server Room Access Switch, Sr. No. G2	Switch should support for different type of QoS features for real time traffic differential treatment using: a. Weighted Random Early Detection b. Strict Priority Queuing	Switch should support for different type of QoS features for real time traffic differential treatment using: a. Weighted Random Early Detection/ Deficit Weighted Round Robin (DWRR)/Queuing mechanisms b. Strict Priority Queuing
82	313	Volume-II, Section-3.8 Technical Specifications : Server Room Access Switch, Sr. No. I1	Switch should support for sending logs to multiple centralized syslog server for monitoring and audit trail	Switch should support for sending logs to centralized syslog server for monitoring and audit trail

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
83	313	Volume-II, Section-3.8 Technical Specifications : Server Room Access Switch, Sr. No. I4	Switch should support for management and monitoring status using different type of Industry standard NMS using: a. SNMP V1 and V.2 b. SNMP V.3 with encryption c. Filtration of SNMP using Access list d. SNMP MIB support for QoS	Switch should support for management and monitoring status using different type of Industry standard NMS using: a. SNMP V1 and V.2 b. SNMP V.3 with encryption c. Filtration of SNMP using Access list or equivalent d. SNMP MIB
84	314	Volume-II, Section-3.8 Technical Specifications : Server Room Access Switch, Sr. No. I6	Switch should support central time server synchronization using Network Time Protocol NTP V.4/PTP	Switch should support central time server synchronization using Network Time Protocol NTP /NTP V.4/PTP
85	308	Volume-II, Section-3.8 Technical Specifications : Server Room Core Switch, Sr. No. C1	The switch should support 50,000 IPv4 and IPv6 routes entries in the routing table and multicast routes 8,000	The switch should support 50,000 IPv4 and IPv6 routes entries in the routing table and multicast routes 2,000
86	309	Volume-II, Section-3.8 Technical Specifications : Server Room Core Switch, Sr. No. E3.3	ISIS using MD5 Authentication	The said specification stands deleted

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
87	309	Volume-II, Section-3.8 Technical Specifications : Server Room Core Switch, Sr. No. E7	Switch should provide multicast traffic reachable using: a. PIM-SM b. PIM-SSM c. Support RFC 3618 Multicast Source Discovery Protocol (MSDP) d. IGMP V.1, V.2 and V.3	Switch should provide multicast traffic reachable using: a. PIM-SM b. PIM-SSM/ PIM-DM c. Support RFC 3618 Multicast Source Discovery Protocol (MSDP) d. IGMP V.1, V.2 and V.3
88	309	Volume-II, Section-3.8 Technical Specifications : Server Room Core Switch, Sr. No. F3	Switch should support For Fast Failure Detection as per RFC 5880	Switch should support For Fast Failure Detection as per RFC 5880 or equivalent
89	309	Volume-II, Section-3.8 Technical Specifications : Server Room Core Switch, Sr. No. G2	Switch should support for different type of QoS features for real time traffic differential treatment using a. Weighted Random Early Detection b. Strict Priority Queuing	Switch should support for different type of QoS features for real time traffic differential treatment using a. Weighted Random Early Detection/ Deficit Weighted Round Robin (DWRR)/Queuing mechanisms b. Strict Priority Queuing
90	310	Volume-II, Section-3.8 Technical Specifications : Server Room Core Switch, Sr. No. I4	Switch should support for management and monitoring status using different type of Industry standard NMS using: a. SNMP V1 and V.2 b. SNMP V.3 with encryption c. Filtration of SNMP using Access list d. SNMP MIB support for QoS	Switch should support for management and monitoring status using different type of Industry standard NMS using: a. SNMP V1 and V.2 b. SNMP V.3 with encryption c. Filtration of SNMP using Access list or equivalent d. SNMP MIB

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
91	310	Volume-II, Section-3.8 Technical Specifications : Server Room Core Switch, Sr. No. I6	Switch should support central time server synchronization using Network Time Protocol NTP V.4/PTP	Switch should support central time server synchronization using Network Time Protocol NTP/NTP V.4/PTP
92	311	Volume-II, Section-3.8 Technical Specifications : Server Room Core Switch, Sr. No. J7.3	VTY	The said specification stands deleted
93	314	Volume-II, Section-3.8 Technical Specifications : Server Room Access Switch, Sr. No. J7.3	VTY	The said specification stands deleted
94	300	Volume-II, Section-3.8 Technical Specifications : Internet Router, Sr. No. A1	The router architecture should be based on hardware based forwarding and switching. System should be multi-processor based architecture for enhanced performance	The router architecture should be based on hardware based forwarding and switching. System should be multi-core /multi-processor based architecture for enhanced performance

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
95	301	Volume-II, Section-3.8 Technical Specifications : Internet Router, Sr. No. B8	Router should support for different logical interface types like loopback, GRE and IPIP tunnel, VLAN etc.	Router should support for different logical interface types like loopback, GRE and IPIP tunnel/ IPSec tunnel , VLAN etc.
96	301	Volume-II, Section-3.8 Technical Specifications : Internet Router, Sr. No. C5	IP V.6 host and IP V.6 routing	IPV6 host/ IPV6 Neighbour discovery and IPV6 routing
97	302	Volume-II, Section-3.8 Technical Specifications : Internet Router, Sr. No. D2.7	Should be compliant to RFC 4760 Multiprotocol Extensions for BGP-4 (Desirable)	Should be compliant to RFC 4760/ RFC 2283 Multiprotocol Extensions for BGP-4 (Desirable)
98	302	Volume-II, Section-3.8 Technical Specifications : Internet Router, Sr. No. D7.3	MBGP, DVMRP or equivalent	MBGP, DVMRP/ PIM or equivalent
99	302	Volume-II, Section-3.8 Technical Specifications : Internet Router, Sr. No. E2	Router should automatically failover of primary interface status change or remote network not reachable to the secondary link connectivity using real-time parameters (IP SLA)	Router should automatically failover of primary interface status change or remote network not reachable to the secondary link connectivity using real-time parameters (IP SLA or equivalent)

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
100	302	Volume-II, Section-3.8 Technical Specifications : Internet Router, Sr. No. E3	Router should provide gateway level of redundancy in IPV4 and IPV6 using HSRP/VRRP & NHRP/equivalent for VPN	Router should provide gateway level of redundancy in IPV4 and IPV6 using HSRP/VRRP & NHRP/ Group Domain VPN / equivalent for VPN
101	302	Volume-II, Section-3.8 Technical Specifications : Internet Router, Sr. No. F6	Router should support for packet classification and fragmentation for providing end to end QoS treatment	Router should support for packet classification/ fragmentation for providing end to end QoS treatment
102	302	Volume-II, Section-3.8 Technical Specifications : Internet Router, Sr. No. F7	Router should support hierarchical QoS for providing granular policy per application basis for providing bandwidth provisioning and management	Router should support hierarchical QoS for providing granular policy per application basis/ deep packet inspection basis for providing bandwidth provisioning and management
103	303	Volume-II, Section-3.8 Technical Specifications : Internet Router, Sr. No. H1	Router should support for sending logs to multiple centralized syslog server for monitoring and audit trail	Router should support for sending logs to centralized syslog server for monitoring and audit trail
104	303	Volume-II, Section-3.8 Technical Specifications : Internet Router, Sr. No. H3	Solution should support for capturing packets for identifying application performance using remote port mirroring for packet captures or should support netflow/Jflow	Solution should support for capturing packets for identifying application performance using remote port mirroring for packet captures or should support netflow/Jflow/ Sflow

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
105	303	Volume-II, Section-3.8 Technical Specifications : Internet Router, Sr. No. H4	Router should support for management and monitoring status using different type of Industry standard NMS using: a. SNMP V1 and V.2 b. SNMP V.3 c. Filtration of SNMP using Access list d. SNMP MIB support for QoS	Router should support for management and monitoring status using different type of Industry standard NMS using: a. SNMP V1 and V.2 b. SNMP V.3 c. Filtration of SNMP using Access list or equivalent d. SNMP MIB
106	299	Volume-II, Section-3.8 Technical Specifications : Internet Router, Sr. No. H6	Router should support central time server synchronization using Network Time Protocol NTP V3 and V.4	Router should support central time server synchronization using Network Time Protocol NTP V3/ V4
107	304	Volume-II, Section-3.8 Technical Specifications : Internet Router, Sr. No. I9	Router should support for IP V.6 different type of application usage like: a. HTTP b. HTTPS c. ICMP d. TCP/UDP e. DNS lookup f. DHCP	Router should support for IP V.6 different type of application usage like: a. HTTP/ HTTPS b. ICMP c. TCP/UDP d. DNS lookup e. DHCP
108	340	Volume-II, Section-3.8 Technical Specifications : Video Wall Controller, Sr. No. 14	8 Universal Inputs for each video wall (Should be able to accept at least 4 kinds of signals i.e. DVI/RGB/Component Video) along with USB 3.0	No of universal port should meet the functional requirement as per the RFP. However, minimum indicative universal port requirement is 8

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
109	307	Volume-II, Section-3.8 Technical Specifications : Network Firewall (NGFW), Sr. No. 39	The solution should support Data Loss Prevention from day 1.	The said specification stands deleted
110	5	Volume-I, Instruction to Bidders, Preparation and Submission of Bids	Gartner/Forrester latest report for all the ICT components proposed by the bidder (MSI)	The said criteria stands deleted
111	308	Volume-II, Section-3.8 Technical Specifications : Server Room Core Switch, Sr. No. B8	Switch should support Configuration roll-back and check point	Switch should support Configuration roll-back
112	311	Volume-II, Section-3.8 Technical Specifications : Server Room Access Switch, Sr. No. B8	Switch should support Configuration roll-back and check point	Switch should support Configuration roll-back
113	316	Volume-II, Section-3.8 Technical	Chassis should have sufficient number of redundant 10gb based converged modules to provide a minimum FCOE uplink bandwidth of 20Gbps per blade	Chassis should have sufficient number of redundant 10gb based interface/modules to provide a

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
		Specifications : Blade Chassis and Management, Sr. No. 6	server and 10Gbps sustained per blade server (with 1 module failure)for a fully populated chassis for LAN & SAN Traffic.	minimum FC/FCOE/HBA uplink bandwidth of 20Gbps per blade server and 10Gbps sustained per blade server (with 1 module failure) for a fully populated chassis for LAN & SAN Traffic.
114	316	Volume-II, Section-3.8 Technical Specifications : Blade Chassis and Management, Sr. No. 5	Converged Module	Converged / Redundant Interconnect Module
115	309	Volume-II, Section-3.8 Technical Specifications : Server Room Core Switch, Sr. No. E5	Switch should support multi instance MPLS routing using VRF	The said specification stands deleted
116	312	Volume-II, Section-3.8 Technical Specifications : Server Room Access Switch, Sr. No. E5	Switch should support multi instance MPLS routing using VRF	The said specification stands deleted

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
117	NA	Volume-II, Section-3.2.1 ERP Suite of Applications	ERP Suite of Applications	ERP COTS Solution is not allowed
118	252	Volume-II, Section-3.3.5 CIOC - Collaboration Solution for Helpdesk, CM- CMS-1.29	Call-Servers in proposed solution should be able to support high volume of concurrent call (in multiple of ten thousand's) and there should not be a single point of failure. Each call processing server at different locations must support equivalent capacity.	Call-Servers in proposed solution should be able to support high volume of concurrent call (in multiple of thousand's) and there should not be a single point of failure. Each call processing server at different locations must support equivalent capacity.
119	257	Volume-II, Section-3.3.5 CIOC - Collaboration Solution for Helpdesk, CM- CMS-1.142	IVR should support VoiceXML for ASR, TTS, and DTMF call flows	IVR should support XML for ASR, TTS, and DTMF call flows
120	258	Volume-II, Section-3.3.5 CIOC - Collaboration Solution for Helpdesk, CM- CMS-1.148	Reporting platform to support custom reports using a combination of the Crystal Reports Developer's Toolkit and SQL stored procedures.	Reporting platform to support custom reports.
121	124	Volume-II, Section-3.1.5 Basic Surveillance	The camera must have video analytic built in with the camera and not limited to abandoned object, camera sabotage, directional motion, loitering detection, object counting, object removal & stopped vehicles.	The said functionality stands deleted

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
		Solution, CIO-Camera-1.5		
122	124	Volume-II, Section-3.1.5 Basic Surveillance Solution, CIO-Camera-1.8	The network camera must provide extended Wide Dynamic Range (WDR), low-light performance, and anti-bloom technology.	The network camera must provide extended Wide Dynamic Range (WDR) and low-light performance.
123	343	Volume-II, Section-3.8 Technical Specifications : Camera Type 3 - Dome Camera (Command Center), Sr. No. 8	FOV between given ranges for horizontal FOV: 36° to 82° , & Vertical FOV:22° to 55°	The said specification stands deleted
124	337	Volume-II, Section-3.8 Technical Specifications : PTZ Camera (Surveillance), Sr. No. 8	Horizontal FOV: 59.5° to 2.1° , & Vertical FOV: 39.0° to 1.2°	The said specification stands deleted
125	338	Volume-II, Section-3.8 Technical Specifications :	Should not exceed 4.3kg (9lb 8oz)	The said specification stands deleted

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
		PTZ Camera (Surveillance), Sr. No. 27		
126	59	Volume-I, Appendix-10 Technical Qualification- Qualifying Projects	Performance Ratings to be filled by the Employer on a scale of 1 to 10 (10 being best)	The said criteria stands deleted
127	308	Volume-II, Section-3.8 Technical Specifications : Server Room Core Switch, Sr. No. D5	Switch should support 8 Nos. of link or more per Port channel (using LACP) and support 48 port channels or more per switch	Switch should support 8 Nos. of link or more per Port channel (using LACP) and support 8 port channels or more per switch
128	312	Volume-II, Section-3.8 Technical Specifications : Server Room Access Switch, Sr. No. D5	Switch should support 8 Nos. of link or more per Port channel (using LACP) and support 48 port channels or more per switch	Switch should support 8 Nos. of link or more per Port channel (using LACP) and support 8 port channels or more per switch
129	83	Volume-II, Section-3.1.4 City Integrated Operations Platform	Streaming Data Analytics – Provides capabilities to process, filter, transform, and score (with the help on analytical model) millions of events per second	Streaming Data Analytics – Provides capabilities to process, filter, transform, and score (with the help on analytical model) thousands of events per second

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
130	95	Volume-II, Section-3.1.4 City Integrated Operations Platform, CIO- NAA 10.1	System should generate Notification, Alert and Alarm messages that should be visible within the Dashboard and the Field Responder Mobile App if required.	<p>System should generate Notification, Alert and Alarm messages that should be visible within the Dashboard and the Field Responder Mobile App. Few minimum features for field responder mobile app;</p> <p>a) Platform should provide a responder mobile app for the field staff to view real time events, manage their tasks, assign tasks, report incidents and collaborate with back-office and other field officers to address a SOP task</p> <p>b) Responder mobile application should only display events and tasks based on pre-configurable access rules based on department and region</p> <p>c) Responder mobile application should support escalation hierarchy of the tasks or events not redressed with-in a defined SLA</p> <p>d) Responder mobile application should provide an ability to track field officers</p> <p>e) Responder mobile application should provide collaboration with the app for field officers and other staff to coordinate</p>

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
				f) Responder mobile application should be available on iOS and Android latest versions
131	7	Volume-III, Section-2.2.2 Commencement of Contract	The MSI shall submit in writing an acceptance of LOA and start the Project with Kick-off meeting no later than 30 (Thirty) Days from issuance of LOA.	The MSI shall submit in writing an acceptance of LOA with Kick-off meeting no later than 30 (Thirty) Days from issuance of LOA.
132	323	Volume-II, Section-3.8 Technical Specifications : Unified Backup Storage, Sr. No. 7	The storage system should have minimum 64 GB DRAM cache per controller	The storage system should have minimum 128 GB DRAM cache across all controllers
133	305	Volume-II, Section-3.8 Technical Specifications : Network Firewall (NGFW), Sr. No. 5	Solution must not have Application specific chips like ASICs that doesn't allow future firmware and feature expansions on the same hardware. Solution must not use proprietary ASIC chips.	Solution should allow future firmware and features updates and expansions seamlessly without amendment/replacement of hardware
134	326	Volume-II, Section-3.8 Technical Specifications : End Point Security Solution	Remediation at endpoints for incident response should include (and not limited to): - Track and capture files on suspected machine with option for lookups on suspected devices - Block of files / process / services that are showing malicious behaviors - Dropper detection and blocking of downloads via URL / sites - Submit suspected malicious files for further analysis	Remediation at endpoints for incident response should include (and not limited to): - Track and capture files on suspected machine with option for lookups on suspected devices

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
		(Enterprise), Sr. No. 15		<ul style="list-style-type: none"> - Block of files / process / services that are showing malicious behaviors - Dropper detection and blocking of downloads - Submit suspected malicious files for further analysis
135	325	Volume-II, Section-3.8 Technical Specifications : Industrial Ethernet Switch (Industrial Grade), Sr. No. 39	Mechanical shock standards should be complied with (Viz. IEC 60068-2-27/IEC 60255-21-2) or equivalent	The said specification stands deleted
136	325	Volume-II, Section-3.8 Technical Specifications : Industrial Ethernet Switch (Industrial Grade), Sr. No. 39	Vibration shock standards should be complied (Viz. IEC 60068-2-6/IEC 60255-21-1/IEC 60068-2-64) or equivalent	The said specification stands deleted
137	111	Volume-II, Section-3.1.5 Basic Surveillance Solution, CIO-SD-1.6	Support megapixel video cameras up to 28 Megapixel resolution	Support megapixel video cameras up to 8 Megapixel resolution

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
138	114	Volume-II, Section-3.1.5 Basic Surveillance Solution, CIO- SD-1.51	Client software will utilize an Investigation mode which enables operators to synchronize video playback and export investigative playlists covering scenes of interest in forward or reverse at speeds up to 128 times normal playback.	Client software will utilize an Investigation mode which enables operators to synchronize video playback and export investigative playlists covering scenes of interest in forward or reverse direction .
139	21	Volume-I, Section-2.2.1 Pre- Qualification Criteria, Sr. No. 7 ERP	The Bidder (any member in case of consortium) shall have successfully implemented and commissioned at least two (2) projects related to implementation/ integration and support of ERP system in India operational for more than one year as on bid submission date including HR, Payroll, finance, Projects & Works Management utility billing, asset management modules, Contracts & Inventory Management, Industry specific solutions for utilities, CRM, Process workflow, Master Data Governance (with at least 3 of these modules) having a minimum value of INR 1 crores per project during last 7 years.	The Bidder (any member in case of consortium) shall have successfully implemented and commissioned at least two (2) projects related to implementation/ integration and support of ERP system in India/ Global operational for more than one year as on bid submission date including HR, Payroll, finance, Projects & Works Management utility billing, asset management modules, Contracts & Inventory Management, Industry specific solutions for utilities, CRM, Process workflow, Master Data Governance (with at least 3 of these modules) having a minimum value of INR 1 crores per project during last 7 years.
140	22	Volume-I, Section-2.2.1 Pre- Qualification Criteria, Sr. No. 10 Integrated	The Bidder (any member in case of consortium) shall have successfully implemented and commissioned at least 1 similar CIOC software comprising of Pre-Integrated Visualization layer & Normalization/Integrated operation platform at City/Utilities/PSU/ULB in India/Globally operational for more than six months with integration of minimum 2 city domains/ applications / use cases mentioned in the RFP cum RFQ.	The Bidder (any member in case of consortium)/ OEM shall have successfully implemented and commissioned at least 1 similar CIOC software comprising of Pre-Integrated Visualization layer &

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
		Operations Platform		Normalization/Integrated operation platform at City/Utilities/PSU/ULB in India/Globally operational for more than six months with integration of minimum 2 city domains/ applications / use cases mentioned in the RFP cum RFQ.
141	37	Volume-I, Section-2.4.2 Step 2 : Technical Qualification, 2.4.2.5	Each Technical Bid will be assigned a technical score out of a maximum of 100 marks. Only the bidders who get an Overall Technical score of 75 or more in Technical Evaluation Framework as given in Section 2.1.2. will qualify for commercial evaluation. Otherwise, it will lead to technical rejection of Bid.	Each Technical Bid will be assigned a technical score out of a maximum of 100 marks. Only the bidders who get an Overall Technical score of 70 or more in Technical Evaluation Framework as given in Section 2.1.2. will qualify for commercial evaluation. Otherwise, it will lead to technical rejection of Bid.
142	37	Volume-I, Section-2.4.4 Step 4: Final Score Calculation, 2.4.4.2	The weightages are as follows: Technical – 75% Commercial – L1	The weightages are as follows: Technical – 70% Commercial – L1
143	37	Volume-I, Section-2.4.4 Step 4: Final Score Calculation, 2.4.4.3	The bidder with the lowest cost score shall be treated as the Successful bidder after having technical score of minimum 75% and above.	The bidder with the lowest cost score shall be treated as the Successful bidder after having technical score of minimum 70% and above.

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
144	30	Volume-I, Section-2.2.2, Technical Qualification cum Evaluation Criteria, Note	Each Technical Proposal will be assigned a technical score out of a maximum of 100 marks. Only the Bidders who get an Overall Technical score of 75% or more in the Technical Evaluation Framework will qualify for commercial evaluation stage. Failing to secure minimum marks shall lead to rejection of the Bid.	Each Technical Proposal will be assigned a technical score out of a maximum of 100 marks. Only the Bidders who get an Overall Technical score of 70% or more in the Technical Evaluation Framework will qualify for commercial evaluation stage. Failing to secure minimum marks shall lead to rejection of the Bid.
145	337	Volume-II, Section-3.8 Technical Specifications : Box Camera (Surveillance)	OEM of Camera should be in the business of supply of Cameras in India for the last 5 years or more. OEM should be a full member of ONVIF on the date of bid submission.	OEM of Camera should be in the business of supply of Cameras in India for the last 5 years or more. OEM should be a full member/ member of ONVIF on the date of bid submission.
146	338	Volume-II, Section-3.8 Technical Specifications : PTZ Camera (Surveillance)	OEM of Camera should be in the business of supply of Cameras in India for the last 5 years or more. OEM should be a full member of ONVIF on the date of bid submission.	OEM of Camera should be in the business of supply of Cameras in India for the last 5 years or more. OEM should be a full member/ member of ONVIF on the date of bid submission.
147	344	Volume-II, Section-3.8 Technical Specifications : Camera Type 3 - Dome Camera (Command Center)	OEM of Camera should be in the business of supply of Cameras in India for the last 5 years or more. OEM should be a full member of ONVIF on the date of bid submission.	OEM of Camera should be in the business of supply of Cameras in India for the last 5 years or more. OEM should be a full member/ member of ONVIF on the date of bid submission.

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
148	20	Volume-I, Section-2.2.1 Pre- Qualification Criteria, Sr. No. 6 Integrated Operations Centre / Command and Control Centre	The Bidder (any member in case of consortium) shall have successfully implemented and commissioned at least one (1) project of minimum value of INR 3 Crores (excluding Civil Works) during last 10 years integrating at least two (2) different city/campus- wide applications from among the modules defined in this RFQ cum RFP at the command and control centre.	The Bidder (any member in case of consortium) shall have successfully implemented and commissioned at least one (1) project related to Integrated Operations Centre/Command and Control Centre/CCC for Security and Surveillance System/Emergency Operation Centre of minimum value of INR 3 Crores (excluding Civil Works) during last 10 years integrating at least two (2) different state/city/campus- wide applications at the command and control centre.
149	23	Volume-I, Section-2.2.2 Technical Qualification cum Evaluation Criteria, Sr. No. 1.1	The Bidder (any member in case of consortium) shall have successfully commissioned at least one (1) project related to implementation of Integrated Operations Centre/Command and Control Centre integrating at least two (2) different city/campus- wide applications at the command and control centre with a minimum value of INR 3 crores per project (excluding civil works) during last Ten (10) years. Number of Projects: <ul style="list-style-type: none"> • =1: 2 Marks • =2: 4 Marks • 1 Mark for each additional Project up to 3 projects 	The Bidder (any member in case of consortium) shall have successfully commissioned at least one (1) project related to implementation of Integrated Operations Centre/Command and Control Centre/CCC for Security and Surveillance System/Emergency Operation Centre integrating at least two (2) different state/city/campus- wide applications at the command and control centre with a minimum value of INR 3 crores per project (excluding civil works) during last Ten (10) years. Number of Projects

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
				<ul style="list-style-type: none"> • =1: 2 Marks; • =2: 4 Marks; • 1 Mark for each additional Project up to 3 projects
150	24	Volume-I, Section-2.2.2 Technical Qualification cum Evaluation Criteria, Sr. No. 1.3	<p>The Bidder (any member in case of consortium) shall have successfully integrated and commissioned at least two (2) projects related to implementation/integration and support with existing application/ portal/ integrated operation centre of people centric governance applications integrating at least four (4) different services having a minimum value of INR 2 crores per project during last Seven (7) years.</p> <p>Number of Projects:</p> <ul style="list-style-type: none"> • =2: 4 Marks • 1 marks for each additional Project up to 3 projects 	<p>The Bidder (any member in case of consortium) shall have successfully integrated and commissioned at least two (2) projects related to implementation/integration and support with existing application/ portal/ integrated operation centre of people centric governance applications integrating at least Three (3) different services having a minimum value of INR 2 crores per project during last Seven (7) years.</p> <p>Number of Projects:</p> <ul style="list-style-type: none"> • 2 projects = 4 Marks; • 1.5 marks for each additional Project up to 2 projects
151	25	Volume-I, Section-2.2.2 Technical Qualification cum Evaluation Criteria, Sr. No. 1.5	<p>The Bidder or any consortium member shall have successfully Commissioned at least two (2) projects related to implementation of citywide / campus wide outdoor CCTV surveillance system consisting of at least 250 IP based cameras with integrated Video Management System and recording during last seven (7) years. Video analytics should be running concurrently in at least 10 % cameras</p> <p>Number of Projects:</p> <ul style="list-style-type: none"> • =2: 2 Marks • 1 Mark for each additional Project up to 3 projects 	<p>The Bidder or any consortium member shall have successfully Commissioned at least two (2) projects related to implementation of citywide / campus wide outdoor CCTV surveillance system consisting of at least 200 IP based cameras with integrated Video Management System and recording during last seven (7)</p>

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
				<p>years. Video analytics should be running concurrently in at least 10 % cameras</p> <p>Number of Projects:</p> <ul style="list-style-type: none"> •=2:2 Marks • 1 Mark for each additional Project up to 3 projects <p>In case bidder have implemented CCTV surveillance system at multi city under Single large project with more than 200 CCTV cameras than completion of implementation of each city will be consider as separate project</p>
152	25	Volume-I, Section-2.2.2 Technical Qualification cum Evaluation Criteria, Sr. No. 1.7	<p>The Bidder or any consortium member shall have successfully commissioned at least two (2) projects related to implementation of Utilities Management in a city / campus wide scenario during last seven (7) years.</p> <p>Number of Projects:</p> <ul style="list-style-type: none"> • =2: 2 Marks • 1 Mark each for each additional project up to 3 projects 	<p>The Bidder or any consortium member shall have successfully commissioned at least two (2) projects related to implementation/Integration of Utilities (Water / Power SCADA system, Gas, Electricity systems /Smart parking/ IoT /Solid waste Management/ Streetlight/ITMS) Management /Smart solutions in a city / campus wide scenario during last seven (7) years.</p> <p>Number of Projects</p> <ul style="list-style-type: none"> • =2: 2 Marks • 1 Mark each for each additional project up to 3 projects

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
153	22	Volume-I, Section-2.2.1 Pre- Qualification Criteria, Note	Note -Experience claimed shall be as Lead Bidder or any member of a JV/Consortium only. No sub-contracting experience shall be considered for evaluation process. Projects completed upto minimum 80% shall be considered with a client certificate for project implemented.	Note -Experience claimed shall be as Lead Bidder or any member of a JV/Consortium only. No sub-contracting experience shall be considered for evaluation process. Projects completed Upto minimum 80% Capex value of project shall be considered with a client certificate for project implemented
154	118	Volume-II, Section-3.1.5 Basic Surveillance Solution, CIO- SD-1.108	The investigation mode must enable operators to synchronize video playback and export investigative playlists covering scenes of interest in forward or reverse at speeds from 8 times and above up to 128 times normal playback	The investigation mode must enable operators to synchronize video playback and export investigative playlists covering scenes of interest in forward or reverse direction .
155	118	Volume-II, Section-3.1.5 Basic Surveillance Solution, CIO- SD-1.98	Fast forward video with speed 8X and above up to 128x	Fast forward video at multiple speeds .
156	118	Volume-II, Section-3.1.5 Basic Surveillance Solution, CIO- SD-1.99	Rewind video with speed 8X and above up to 128x	Rewind video at multiple speeds .

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
157	1	Volume-III, Section-1 Draft Contract agreement	<p>A. Contract Documents (Reference GCC Clause 2.1.1. (m)) The following documents shall constitute the Contract between the Employer and the MSI, and each shall be read and construed as an integral part of the Contract:</p> <p>(a) This Contract Agreement and the Appendices attached to the Contract Agreement;</p> <p>(b) General Conditions of Contract</p> <p>(c) Special Conditions of Contract;</p> <p>(d) Terms of Reference</p> <p>(e) The Bidder's bid and original Financial Proposal;</p> <p>(f) [Add here: any other documents].</p>	<p>A. Contract Documents (Reference GCC Clause 2.1.1. (m)) The following documents shall constitute the Contract between the Employer and the MSI, and each shall be read and construed as an integral part of the Contract:</p> <p>(a) This Contract Agreement and the Appendices attached to the Contract Agreement;</p> <p>(b) General Conditions of Contract</p> <p>(c) Special Conditions of Contract;</p> <p>(d) Terms of Reference</p> <p>(e) Letter of award</p> <p>(f) all volumes of RFP along with corrigenda/ Addendum</p> <p>(g) Post Bid response by Employer</p> <p>(h) Original Financial Proposal of Bidder as downloaded from N-Procure;</p> <p>(i) Reference (only) to the Bidder's bid. (However, any condition/ deviation mentioned in the bid except those explicitly accepted by the bidder stands withdrawn except any confirmations, add-ons stipulated in the bid at the discretion of the Employer.)</p> <p>(j) and any other document as relevant considered by Employer].</p>

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
158	12	Volume-I, Section-1.5.14 Forfeiture of EMD	(iv) fails to fulfil any other condition precedent to the execution of the Contract, as specified in the letter of award;	(iv) fails to fulfil any stipulation/confirmation/acceptance mentioned in the Bid , condition precedent to the execution of the Contract as specified in the letter of award;
159	11	Volume-I, Section-1.5.13 Earnest Money Deposit/Bid security	Additional Clause	The following is added to the clause: Note: Bank Guarantees issued by YES Bank is not acceptable. Non-Compliance by the Bidder run risk of Bid Rejection at their risk. Bid security to remain valid till 31.12.2020.
160	32	Volume-I, Section-2.3 General Terms for Submission, Opening and Evaluation, Sr. No. 3 Performance Security	Additional Clause	The following is added to the clause: Note: Bank Guarantees issued by YES Bank is not acceptable
161	53	Volume-I, Appendix-8 Financial Qualification of the MSI/Bidder	Additional Clause	The following is added below the notes: The net profit shall mean : net profit after tax.

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
162	4	Volume-I, Instruction to Bidders for e- Tendering, Sr. No. 5	BID Security is also to be furnished by the bidder for the amount of Rs. 1,00,00,000 (INR One crore only)	BID Security is also to be furnished by the bidder for the amount of Rs. 1,36,00,000 (INR One Crore Thirty-Six Lakhs only)
163	39	Volume-I, Section-4 Bid Fact Sheet, Sr. No. 5	Bid Security/Earnest Money Deposit (EMD) : INR One crore only	Bid Security/Earnest Money Deposit (EMD) : INR One Crore Thirty-Six Lakhs only
164	54	Volume-I, Appendix-9 Format of Joint Bidding Agreement and Joint Venture / Consortium Summary	AND, 4. [Name of company], a company incorporated under the Companies Act, 1956 and having its registered office at [registered address] (hereinafter referred to as the "Fourth Part" which expression shall, unless repugnant to the context include its successors and permitted assigns);	The said clause stands deleted
165	54	Volume-I, Appendix-9 Format of Joint Bidding Agreement and Joint Venture / Consortium Summary	The above-mentioned parties of the [FIRST, SECOND, THIRD AND FOURTH] PART are collectively referred to as the "Parties" and each is individually referred to as a "Party".	The above-mentioned parties of the [FIRST, SECOND AND THIRD] PART are collectively referred to as the "Parties" and each is individually referred to as a "Party".
166	58	Volume-III, Section-3.1.1 Milestone Payment	Milestone Payment Schedule for Cluster A 1	Please refer the updated Milestone Payment Schedule for Cluster A1 (Section-3.1.1) bifurcated into Part A & Part B , shared in this document below.

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
		Schedule for Cluster A 1		
167	294	Volume-II, Section-3.8 Technical Specifications	Addition of ICT Component : Server Load Balancer (SLB) with redundancy	Please refer Technical Specifications of Server Load Balancer shared in the document below.
168	289	Volume-II, Section-3.7 Bill of Quantity	Bill of Quantity	Please refer updated Section-3.7 Bill of Quantity shared in the document below.
169	168	Volume-II, Section-3.2.1 ERP Suite of Applications	Additional functionality	ERP CM 30 : Functionality to enable precise planning, budgeting and monitoring of detailed activities costs of the company.
170	7	Volume-III, Section-2.2.1 Effectiveness of Contract	This Contract shall come into force and effect on the date (the "Effective Date") the contract agreement is signed between the parties.	This Contract shall come into force and effect on the date (the "Effective Date") means that date which is later of the 15th day of the date of signing of this Agreement, the date on which the Contractor has delivered the Performance Security in the prescribed format and the date on which the Employer has provided the Site.
171	162	Volume-II, Section-3.2.1	System should assist in defining the HR strategy which is heavily influenced by or coupled with the overall business strategy. There will be a reliance on other	The said functionality stands deleted

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		ERP Suite of applications, ERP-HR 3	inputs, such as revenue forecasts, employee data, workforce analytics, benchmarking data, engagement surveys, PESTLE analysis (Political, Economic, Social, Technology, Legal, Environmental), in order to support the creation of a robust HR Strategy. Strategies will have a long-term focus, but will account for workforce planning that will usually be completed annually.	
172	162	Volume-II, Section-3.2.1 ERP Suite of applications, ERP-HR 4	System should assist in defining the workforce strategy to provide clear direction and method for achieving the goal of having the right number of people, with the right skills, in the right place at the right time. Tasks will usually stem from a Business or Functional level strategy, coupled with the HR Strategy and will highlight either a business need (ex. penetrating new area, increasing use of flexible staffing[part-time, contingent, contractor]) or a business risk (aging workforce, attrition/turnover of key employees).	The said functionality stands deleted
173	162	Volume-II, Section-3.2.1 ERP Suite of applications, ERP-HR 6	Functionality to create an organization competency framework for use throughout the business and HR process areas. A common framework needs to be used to increase usage and understanding of organization competencies as a whole, with competencies added to reflect the different skills needed in different areas of the business. Usually a scale will also be used to signify the progression within a particular competency, as well as the attachment of competencies to jobs.	The said functionality stands deleted
174	163	Volume-II, Section-3.2.1 ERP Suite of applications, ERP-HR 7	Functionality to design a new organization or part of an existing organization, which addresses business drivers for change. Following establishing the case for change, activities including defining the operating philosophy, organizational structure, outline roles, key activities and RACI models.	The said functionality stands deleted
175	164	Volume-II, Section-3.2.1 ERP Suite of applications, ERP-HR 25	Functionality to support all processes involved with making sure that all employees are brought into the organization on the correct compensation package, and that this is reviewed according to a company policy and / or legal requirement. In addition to this, the organization will benchmark itself against competitors or similar organizations to ensure that its salaries are competitive. Finally, recognition policies should be reviewed along with reward structures, alongside benchmark information and internal metrics and	Functionality to support all processes involved with making sure that all employees are brought into the organization on the correct compensation package, and that this is reviewed according

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
			engagement survey results, to ensure optimization against the HR and Reward strategy.	to a company policy and / or legal requirement.
176	168	Volume-II, Section-3.2.1 ERP Suite of applications, ERP-PS 28	<p>Functionality to enable precise planning, budgeting and monitoring of detailed activities costs of the project. Project accounting should fulfil below functions at various phases of the project:</p> <ul style="list-style-type: none"> - Classify projects based on their types - Maintain Vendor details, schedule of rates - Calculate planned costs and revenues. - Technical and financial approval of project (via workflow) - Allocate budget based on planned costs - Integration with e-Tendering application - Awarding work to Vendor/s - Facility to track Project - Ability to upload / input measurement / progress of work - Monitor actual costs and its variance from planned cost - Facilitate local accounting standards - Calculate Work in Progress by asset class to enable recovery of capital taxation allowance - Cost and revenue settlement 	<p>Functionality to enable precise planning, budgeting and monitoring of detailed activities costs of the project. Project accounting should fulfil below functions at various phases of the project:</p> <ul style="list-style-type: none"> - Classify projects based on their types - Maintain Vendor details, schedule of rates - Calculate planned costs and revenues. - Technical and financial approval of project (via workflow) - Allocate budget based on planned costs - Awarding work to Vendor/s - Facility to track Project - Ability to upload / input measurement / progress of work - Monitor actual costs and its variance from planned cost - Facilitate local accounting standards - Calculate Work in Progress by asset class to enable recovery of capital taxation allowance - Cost and revenue settlement

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
177	169	Volume-II, Section-3.2.1 ERP Suite of applications, ERP-IM 13	Functionality to integrate with Analytics , BI/Data warehouse, mobile solution for field guys for inventory transaction, Procurement system, Finance and Controlling and other logistics modules like Asset Management, Projects Systems etc.	The said functionality stands deleted
178	171	Volume-II, Section-3.2.1 ERP Suite of applications, ERP-PR 5	Functionality for authorized DICDL users to raise a shopping cart request using a product catalog and appropriate account assignment for goods and services like but not limited to spares, office equipment and supplies, essential services and others as per DICDL needs.	The said functionality stands deleted
179	172	Volume-II, Section-3.2.1 ERP Suite of applications, ERP-PR 16	Functionality to integrate with E-Procurement portal including e-bidding for tendering process and creation of Purchase order on allocation of the order to the Vendor.	The said functionality stands deleted
180	172	Volume-II, Section-3.2.1 ERP Suite of applications, ERP-PR 9	Functionality to create request for Quotation against the purchase requisitions, electronically send these requests to multiple suppliers, enter the quotes received with requisite details and attachments. Functionality to technically and functionally analyze and evaluate received quotations from various vendors based on criteria's like but not limited to: -Lowest price -Technical proposal -Delivery -Quality -Payment terms -Landed costs etc. - Functionality to convert/copy the whole or partial quotation/proposal based on the above evaluation.	Functionality to technically and functionally analyze and evaluate received quotations from various vendors based on criteria's like but not limited to: -Lowest price -Technical proposal -Delivery -Quality -Payment terms -Landed costs etc. - Functionality to convert/copy the whole or partial quotation/proposal based on the above evaluation.
181	46	Volume-III, Section-2.12.1	2.12.1 Transfer of Ownership 2.12.1.1. With the exception of Software and Materials, the ownership of the Information Technology components and other Goods shall be transferred	2.12.1 Transfer of Ownership 2.12.1.1 The ownership of the Information Technology

REQUEST FOR QUALIFICATION (RFQ) CUM REQUEST FOR PROPOSAL (RFP) FOR APPOINTMENT OF MASTER SYSTEM INTEGRATOR FOR DESIGN, SUPPLY, INSTALL, TEST, INTEGRATE, COMMISSIONING, OPERATION AND MAINTENANCE OF ICT COMPONENTS IN CLUSTER A1 OF ACTIVATION AREA

Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by															
		Transfer of Ownership	to the Employer at the time of Delivery or otherwise under terms that may be agreed upon and specified in the Contract Agreement. 2.12.1.2. Ownership and the terms of usage of the Software and Materials supplied under the Contract shall be governed by GCC Clause 2.6. and any elaboration in the Terms of Reference. 2.12.1.3. Ownership of the MSI's Equipment used by the MSI and its Subcontractors in connection with the Contract shall remain with the MSI or its Subcontractors.	components and other Goods shall be transferred to the Employer after successfully completion and acceptance of Parallel Run (D+15) or other obligations under terms that may be agreed upon and specified in the Contract Agreement.															
182	65	Volume-III, Section-4.6 Implementation Phase SLA's	<p>4.6 Implementation Phase SLAs</p> <p>4.6.1 These SLAs shall be used to evaluate the timelines for completion of deliverables during the Implementation phase of the Project. These SLAs are for individual milestones/deliverables that are under the scope of the MSI and are listed as part of the contract</p> <p>4.6.2 Please note that the SLAs and penalties are stated differently at multiple places in this document and elsewhere. The employer will consider the one that has higher penalty amount.</p> <table border="1"> <thead> <tr> <th>Sr. No.</th><th>Project Milestone</th><th>Description</th><th>Scheduled Timeline</th><th>Penalty</th></tr> </thead> <tbody> <tr> <td colspan="5">Implementation Phase</td></tr> <tr> <td>1</td><td>Team Mobilization & commencement of work</td><td>MSI is expected to mobilize project team for commencement of work. Commencement of work shall mean reporting and availability</td><td>Within 30 days from the date of contract agreement,</td><td>➤ <= 6 days Nil ➤ Penalty beyond 6 days will be 0.5% per week</td></tr> </tbody> </table>	Sr. No.	Project Milestone	Description	Scheduled Timeline	Penalty	Implementation Phase					1	Team Mobilization & commencement of work	MSI is expected to mobilize project team for commencement of work. Commencement of work shall mean reporting and availability	Within 30 days from the date of contract agreement,	➤ <= 6 days Nil ➤ Penalty beyond 6 days will be 0.5% per week	The said clause stands deleted
Sr. No.	Project Milestone	Description	Scheduled Timeline	Penalty															
Implementation Phase																			
1	Team Mobilization & commencement of work	MSI is expected to mobilize project team for commencement of work. Commencement of work shall mean reporting and availability	Within 30 days from the date of contract agreement,	➤ <= 6 days Nil ➤ Penalty beyond 6 days will be 0.5% per week															

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Sr. No.	Page No.	Clause No.	Original Clause				To be Replaced by
				of MSI's resources.			
			2	Design, Development, Procurement and implementation of the required solution	MSI is expected to design, develop and implement the desired/required comprehensive system at DSIR within a time duration mentioned in the project timelines	Within the defined time lines for phase wise/stage wise deployment of the designed solution for multiple domains	<ul style="list-style-type: none"> ➤ <= 6 days: Nil ➤ Penalty beyond 6 days will be 0.5% per week
			3	Sharing of system/user documents	MSI is expected to prepare and submit various system/user documents during the project implementation tenure. (Viz. SDD, HLD, LLD, User manuals, training manuals, etc.)	Relevant documents need to be shared within the designated/agreed timelines as per the contract agreement	<ul style="list-style-type: none"> ➤ <= 6 days: Nil ➤ Penalty beyond 6 days will be 0.5% per week
			4	Imparting Training to resources	MSI is expected to impart training to government	General as well as module specific training needs to be imparted to	<ul style="list-style-type: none"> ➤ <= 6 days: Nil

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Sr. No.	Page No.	Clause No.	Original Clause					To be Replaced by
					employees who would be working at various offices of DSIR.	relevant department officials	➤ Penalty beyond 6 days will be 0.5% per week	
			4.6.3 Delay of every week would also account in increase of additional 2 weeks in the maintenance period which will be over and above the maintenance period of 5 (Five) years. This duration would be accounted without incurring any charges to DICDL.					
183	42	Volume-III, Section-2.11.1 Operational Acceptance and Time Guarantee	2.11.1. Operational Acceptance and Time Guarantee 2.11.1.1. The MSI guarantees that it shall complete the supply, Installation, Integration, Commissioning, and achieve Operational Acceptance of System (or Subsystems mentioned in Volume II) within the time periods specified in the Implementation Schedule in the Terms of Reference Section and/or the Agreed and Finalized Project Plan, or within such extended time to which the MSI shall be entitled under GCC Clause 2.11.2. (Extension of Time for Achieving Operational Acceptance). If the MSI fails to supply, install, commission, and achieve Operational Acceptance of the System (or Subsystems pursuant to the clause above) within the time for achieving Operational Acceptance specified in the Implementation Schedule in the Terms of Reference or the Agreed and Finalized Project Plan, or any extension of the time for achieving Operational Acceptance previously granted under GCC Clause 2.11.2. (Extension of Time for Achieving Operational Acceptance), the MSI shall pay to the Employer liquidated damages at the rate assessed at 1.0 percent per week of Total Milestone Payment during implementation and DLP phase. The maximum liquidated damages are 10 percent of the Contract Value during the					2.11.1 Operational Acceptance and Time Guarantee 2.11.1.1 The MSI guarantees that it shall complete the supply, Installation, Integration, Commissioning, and achieve Operational Acceptance of System (or Subsystems mentioned in Volume II) within the time periods specified in the Implementation Schedule in the Terms of Reference Section and/or the Agreed and Finalized Project Plan, or within such extended time to which the MSI shall be entitled under GCC Clause 2.11.2. (Extension of Time for Achieving Operational

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
			<p>implementation and DLP phase of the project as a percentage of the Contract Price, or the relevant part of the Contract Price if a Subsystem has not achieved Operational Acceptance. The aggregate amount of such liquidated damages shall in no event exceed the Contract Value. Once the Maximum is reached, the Employer may consider termination of the Contract, pursuant to GCC Clause 2.2.9.</p> <p>2.11.1.2. Liquidated damages payable under GCC Clause 2.11.2.2. shall apply only to the failure to achieve Operational Acceptance of the System (and Subsystems) as specified in the Implementation Schedule in the Terms of Reference and/or Agreed and Finalized Project Plan. This Clause 2.11.2.3 shall not limit, however, any other rights or remedies the Employer may have under the Contract for other delays. Liquidated damages shall also be applicable to the Mile Stones as defined in the Volume II - Terms of Reference. Liquidated damages shall be assessed at 1.0 percent per week of the total milestone payment. Maximum liquidated damages shall be 10 percent of the total milestone payment. Liquidated damages shall also be applicable in case of any delay in providing services by MSI during AMC Phase (Post Warranty Service Period). Liquidated damages during the AMC Phase (Post Warranty Service Period) of the Project shall be capped at 10 percent of the total quarterly amount to be paid during AMC phase.</p> <p>2.11.1.3. If liquidated damages are claimed by the Employer for the System (or Subsystem), the MSI shall have no further liability whatsoever to the Employer in respect to the Operational Acceptance time guarantee for the System (or Subsystem). However, the payment of liquidated damages shall not in any way relieve the MSI from any of its obligations to complete the System or from any other of its obligations and liabilities under the Contract.</p>	<p>Acceptance). If the MSI fails to supply, install, commission, and achieve Operational Acceptance of the System (or Subsystems pursuant to the clause above) within the time for achieving Operational Acceptance specified in the Implementation Schedule in the Terms of Reference or the Agreed and Finalized Project Plan, or any extension of the time for achieving Operational Acceptance previously granted under GCC Clause 2.11.2. (Extension of Time for Achieving Operational Acceptance), the MSI shall pay to the Employer liquidated damages at the rate assessed at 0.5 percent per week or in proportion to days, of Total Capex value . The maximum liquidated damages shall be 10 percent of the Capex Value of the total contract value .</p> <p>2.11.1.2 Deleted</p> <p>2.11.1.3 Deleted</p>
184	20	Volume-I, Section 2.2.1 Pre-Qualification Criteria, Sr. No.	<p>The Lead Bidder should have average annual turnover of INR 180 Crores over last three years with minimum 50 crores from ICT services.</p> <p>Each consortium member in bid should have average annual turnover of minimum 30 crores over last three years.</p>	<p>a) The Lead Bidder should have average annual turnover of INR 180 Crores over preceding three</p>

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
		2 Company Financials & Profile	Documentary Evidence: A certificate from Chartered Accountant/ Statutory auditor/Director/CFO stating the amount received for the said work from the respective Client/Employer shall be accepted as proof of payment.	<p>financial years with minimum 50 crores from ICT services.</p> <p>b) In case Lead Bidder claims financial experience & support in respect of turnover from his parent company, the Lead bidder himself should have average annual turnover of minimum 50% i.e INR 90 Crores over preceding three financial years and the Lead Bidder along with his parent company (not as JV partner) should have average annual turnover of INR 180 Crores over preceding three financial years with minimum of 50 crores from ICT services subject to conditions mentioed at note 2 at page 22</p> <p>c) Each consortium member in bid should have average annual turnover of minimum 30 crores over preceding three years.</p> <p>Documentary Evidence: A certificate from Chartered Accountant/ Statutory auditor/ Director/ CFO from respective companies, stating the turnover</p>

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
				for 3 preceding financial years and amount received for the said work from the respective Client/Employer shall be accepted as documentary proof.
185	20	Volume-I, Section-2.2.1 Pre- Qualification Criteria, Sr. No. 3 Company Financials	The Lead Bidder/All Consortium/JV members should have a combined net worth of minimum INR 50 crore as on last date of latest audited financial year Documentary Evidence: Bidder/all the consortium/JV partner should produce a Certificate from the Chartered Accountant/Statutory Auditor or Audited Balance Sheets Confirming the Net Profit.	The Lead Bidder/All Consortium/JV members/ Parent Company should have a combined net worth of minimum INR 50 crore as on last date of latest audited financial year out of which minimum 50% i.e INR 25 Crores must be of Lead Bidder as on last date of latest audited financial year. Documentary Evidence: Bidder/all the consortium/JV partner should produce a Certificate from the Chartered Accountant/Statutory Auditor or Audited Balance Sheets Confirming the Net Profit.
186	22	Volume-I, Section-2.2.1 Pre- Qualification Criteria	Additional Clause (Note : 2, Volume-I, Section-2.2.1 Pre- Qualification Criteria, Pg. No. 22)	Please refer additional clause (Note: 2) shared in the document below.

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
187	54	Volume-I, Appendix-9	Additional Appendix format : Appendix-9A Format of Joint Declaration/ Undertaking by Lead Bidder and parent company	Please refer additional appendix format (Appendix-9A Format of Joint Declaration/ Undertaking by Lead Bidder and parent company) shared in the document below.
188	NA	Volume – III Conditions to Contract, Appendix-A	Additional Appendix format : Appendix A-1 Form of Bank Guarantee for Performance Security on behalf of parent Company	Please refer additional appendix format (Appendix A-1 Form of Bank Guarantee for Performance Security on behalf of parent Company) shared in the document below.
189	339	Volume-II, Section-3.8 Technical Specifications : Video Wall Display/Screen, Sr. No. 4	Resolution: 1920 x 1200 native (WUXGA Display)	Resolution: 1920 x 1080 Full HD or better.
190	339	Volume-II, Section-3.8 Technical Specifications : Video Wall Display/Screen, Sr. No. 9	Redundant Dual power supply: Cube should be equipped with a built in dual redundant power supply	Redundant Dual power supply: Solution should be equipped with a built in dual redundant power supply
191	339	Volume-II, Section-3.8 Technical Specifications :	Remote: IR remote control should also be provided for quick access	Remote: IR/IP based remote control should also be provided for quick access

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
		Video Wall Display/Screen, Sr. No. 12		
192	339	Volume-II, Section-3.8 Technical Specifications : Video Wall Display/Screen, Sr. No. 16	Cube Depth:<800mm	Cube Depth: As per proposed OEM product/ Solution
193	339	Volume-II, Section-3.8 Technical Specifications : Video Wall Display/Screen, Sr. No. 18	Inputs in the Cube: DVI-2, HDMI-1, HDbaseT-1, Display port-1	Inputs in the Cube: DVI-2 port with required functionality of video wall.
194	339	Volume-II, Section-3.8 Technical Specifications : Video Wall Controller, Sr. No. 6	Networking: Support for optical Fiber interface adapters	The said clause stands deleted
195	339	Volume-II, Section-3.8 Technical Specifications : Video Wall Display/Screen, Sr. No. 10	Hot Swappable Power Supply : The inbuilt power supply should be hot swappable	The said clause stands deleted

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Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
196	339	Volume-II, Section-3.8 Technical Specifications : Video Wall Display/Screen, Sr. No. 21	OEM : The proposed OEM make/model of display cube should have been successfully running for at least 1 year in at least 1 Smart City project in India	OEM : The proposed OEM of video wall should have been successfully running for minimum 1 year in at least 1 project in India

3.1.1. Milestone Payment Schedule for Cluster A 1

Part A: Supply, Implementation, Testing and Commissioning (Capex)

Activities / Milestones / Deliverables	Date of Delivery / Completion from Contract Signing	Milestone payments (Weightage in percentage of Capex price)
Submission and review of Inception Report, Project Schedule, Project Management Plan, Resource mobilization, Opening of Project office	D+1 month	10%
Network Infrastructure Work-Package: Submission and review Detailed Engineering Design, Procurement Plan, & Acceptance Plan	D+2 months	10%
City Application work-package: Submission and review Detailed Engineering Design, Procurement Plan & Acceptance Plan		
Integrated Operations Work-Package: Submission and review of Detailed Engineering Design, Procurement Plan & Acceptance Plan		
Procurement, shipment and onsite delivery of all the products, hardware, software licenses required for development only for all work packages	D+4 Months	30%*
End to end Go Live and Operational acceptance of Basic Networks infrastructure (Passive components) work package with its ICT components for cluster A1 including Distribution and Backbone network infrastructure	D+6 Months	10%
End to end and successful Go Live of Server room and connectivity between Datacenter and server room along with all associated equipment's like Active components, Switching, routing, Server, Storage, applications, HVAC, Access control, IBMS etc.	D+8 months	10%
Submission of documentation for milestone deliverables as per applicable stages in this RFQ cum RFP and asked otherwise by ICT Consultant/Employer including Standard Operating Procedures and Training Manuals, testing, Commissioning etc.		

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Any other activities and items needed for the completeness of Basic Network Infrastructure work package related to the server room infrastructure		
End to end Go Live and Operational acceptance of City Applications Work Package with its ICT components	D+10 Months	10%
End to end successful delivery of all Software Licenses and Go live Covering all the components of City applications work package like ERP, integration with e - Governance, mobile app, web portal and associated city applications, fully integrated, 100% complete and fully functional		
Submission of documentation for milestone deliverables as per applicable stages of MSI project life cycle in this RFQ cum RFP and asked otherwise by ICT Consultant/Employer including Standard Operating Procedures and Training Manuals.		
Any other items needed for the completeness of City applications work package		
End to end and successful Go Live of cluster A1 as part of Integrated Operations Work Package like city's dash board along with city wide integration, operational optimization, controls, monitoring / display, (including Integration of SCADA systems with CIOC of various utility services such as Water Treatment Plant (WTP), Sewage Treatment Plant (STP), Common Effluent Treatment Plant (CETP), Raw Water Transmission Line Mains (RWTM), Road & Services (R&S)), ABCD Building, Variable message sign boards, CCTV surveillance system and city wide sensors and actuators and associated installations	D+12 Months**	5%
Submission of documentation for milestone deliverables as per applicable stages in this RFQ cum RFP and asked otherwise by ICT Consultant/Employer including Standard Operating Procedures and Training Manuals, testing, Commissioning etc.		
Successful Go Live in integrated manner of end to end covering Basic Networks infrastructure work package like Active Network Infrastructure and video surveillance, Variable Messaging System, sensors etc. for Cluster A1 of Activation Area and associated installations		5%

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Parallel run (successful operations of all the ICT components) of all work packages	D+15 months	10%
End of implementation and Total system deployed at DSIR and Live trial run Operational Acceptance, UAT, Operational Management Plan, SLA's, Maintenance Plan. Training plan and all necessary signoffs		
Training Completion and Preparation of training manuals and imparting training to Employer		
Successful Parallel run for 3 months		
Submission of documentation of Parallel run by MSI		
As-built drawings, manuals and documents with key resource Training		
Third party audit and certification from STQC/Cert-In certified agency.		
Any other activities and items needed for the completeness of milestone		

Part B: Operation and Maintenance (Opex)

Activities / Milestones / Deliverables	Date of Delivery / Completion from Contract Signing	Milestone payments (Weightage in percentage of Opex)
Successful Operation and Maintenance for 1st year	D+27 months	Total 20% (5% at the end of every Qtr.)
Completion of successful assessment and receipt of ISO and other certifications and providing requisite support to DICDL		
Successful full-scale operations (second leg 6 months)		
Submission of documentation for milestone deliverables as per applicable stages in this RFQ cum RFP and asked otherwise by ICT Consultant/Employer		
Any other activities and items needed for the completeness of milestone		
Successful Operation and Maintenance for 2nd year	D+39months	Total 20% (5% at the end of every Qtr.)
Submission of documentation for milestone deliverables as per applicable stages in this RFQ cum RFP and asked otherwise by ICT Consultant/Employer		
Any other activities and items needed for the completeness of milestone		

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Successful Operation and Maintenance for 3rd year	D+51 months	Total 20% (5% at the end of every Qtr.)
Submission of documentation for milestone deliverables as per applicable stages of in this RFQ cum RFP and asked otherwise by ICT Consultant/Employer		
Any other activities and items needed for the completeness of milestone		
Successful Operation and Maintenance for 4th year	D+63 months	Total 20% (5% at the end of every Qtr.)
Submission of documentation for milestone deliverables as per applicable stages in this RFQ cum RFP and asked otherwise by ICT Consultant/Employer		
Any other activities and items needed for the completeness of milestone		
Successful Operation and Maintenance for 5th year	D+75 months	Total 20% (5% at the end of every Qtr.)
Submission of documentation for milestone deliverables as per applicable stages in this RFQ cum RFP and asked otherwise by ICT Consultant/Employer		
Handholding and Transition completion to IT governance unit of city SPV		
Any other activities and items needed for the completeness of milestone		

* The MSI shall, after approval of his detailed engineering design, furnish to the ICT Consultant/ Employer/ Employee Representative a Bill of Quantities of all the major items, along with percentage breakdown in commensurate with value of respective equipment to facilitate progressive payments for approval.

** Further if there is any time gap in readiness of the supporting Infrastructure for ICT works like Service Area Buildings, SCADA inputs from various utilities i.e. WTP, STP, CETP, RWTM, R&S in activation area the contractor shall be provided suitable time period to execute the affected works without levy of any Liquidated damages and without any cost implication to the employer.

*** The bidder shall be paid 65% of the Total Contract value as part of SITC phase (Capex) while remaining 35% will be paid as part of Operation & Maintenance (O&M) phase

- The bidder will have to deliver all the required items under the project at its own warehouse, whereas the installation has to be done at the end locations as per the scope of work defined in Volume-II of RFP.
- All the charges associated with the movement of equipment's/items at the delivery location and till the installation location's will have to be borne by the Bidder/MSI.
- The custody and responsibility of such delivered equipment's/ items will remain with the bidder till Go-live of the project/component. In case of any theft/physical damage/ any other accidental risk to the equipment/items, before Go-live, the equipment shall be replaced on bidder's cost.
- The Inspections of the equipment shall be done by the Employer or its nominated agency as per approved QAP and the payment shall be released as per payment terms.

3.8 Technical Specifications:

Server Load Balancer (SLB)

Sr. No.	Minimum Technical Specifications
Architecture	
1	Should be high performance multi-tenant hardware with multicore CPU support. Platform should support multiple network functions including application load balancing, AAA based secure remote access functions with dedicated hardware resources for each virtual instance
2	Platform should have option to support 3 rd party network functions
3	The appliance should have minimum 16x10GbE SFP+ ports from day one. Two 1G Copper dedicated management interface
4	The appliance should support Minimum 512GB RAM and 4TB HDD
5	The appliance should have dedicated SSL card to support offloading of minimum 75,000 ECC TPS (ECDSA-SHA256) & 100,000 SSL TPS 2K Keys
6	Multi-tenant platform must support traffic isolation, fault isolation and network isolation in order to meet the architectural environment. Each network function must have assigned dedicated hardware resources including I/O interfaces, memory, CPU, SSL card in order to ensure every network functions performs without affecting other functions
7	Platform should support minimum 20 Gbps throughput from day one and shall support minimum 2 virtual instances
Application Load balancer	
8	Should able to load balance both TCP and UDP based applications with layer 2 to layer 7 load balancing including Web Socket and Web Socket Secure.
9	The appliance should support server load balancing algorithms i.e. round robin, weighted round robin, least connection, Persistent IP, Hash IP, Hash Cookie, consistent hash IP, shortest response, proximity, SNMP, SIP session ID, hash header etc.
10	Script based functions support for content inspection, traffic matching and monitoring of HTTP, SOAP, XML, generic TCP.
11	Should provide secure online application delivery using hardware-based high performance integrated SSL acceleration hardware. SSL hardware should support both 2048 and 4096 bit keys for encrypted application access.
12	Should support certificate parser and solution should integrate with client certificates to maintain end to end security and non-repudiation
13	The appliance should support Certificate format as OpenSSL/Apache, DER, PEM, MS IIS, PFX, Oracle, SAP, etc. with an option to customize the template configuration to meet the new requirements.
14	Capable of handling complete Full DNS bind records including A,MX, AAAA, CNAME, PTR, SOA etc.
15	Shall provide individual link health check based on physical port, ICMP Protocols, user defined I4 ports and destination path health checks.
16	Should support QOS for traffic prioritization, CBQ

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17	Should provide QOS filters based on port and protocols including TCP, UDP and ICMP Protocols.
18	Should support rate shaping for setting user defined rate limits on critical application.
19	Should support advance ACL's to protect against network based flooding attacks. Administrator should able to define ACL's rules based on connections per second (CPS) and concurrent connections (CC), cookie value.
20	Supports SAML secure application access – Supports web single sign-on (SSO) – Serves as a SAML SP (service provider)
Clustering and failover	
21	Should provide comprehensive and reliable support for high availability both at device level and Virtual function level
22	Device level HA should support synchronization of network functions configuration from primary/master device to secondary/slave device
23	ADC virtual instance should support built in failover decision/health check conditions (both hardware and software based) including CPU overheated, SSL card, port health, CPU utilization, system memory, process health check and gateway health check to support the failover in complex application environment
24	ADC Virtual Instance Should have option to define customized rules for gateway health check - administrator should able to define a rule to inspect the status of the link between the unit and a gateway
25	ADC Virtual Instance Support for automated configuration synchronization support at boot time and during run time to keep consistence configuration on both units.

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3.7 Bill of Quantity

The Bidder should provide the proposed bill of Quantity (BoQ) here. Bidders are required to mention the details of the make/brand and model against each line item, wherever applicable. The bid can be considered non-responsive in the absence of such details. Once the bidder provides this information in the submitted bid, the bidder cannot change it with any other component / equipment etc. of lower specifications/ performance; it can only be upgraded at the time of actual deployment/ installation. The Bidder may add any additional line item (with adequate details) in the proposed BoM table below (towards the end of the table) in each work package, that may be required to fulfil the RFP and project requirements in totality.

The Bidder shall quote only one specific make and model from only one specific OEM, for each of the goods.

Mentioned below is the indicative Bill of Quantity work package wise for each proposed solution; however, MSI is required to assess the exact requirement based on entire scope mentioned in the RFQ cum RFP and the draft form of contract, location wise, for all the proposed solution components and shall accordingly provide requisite quantities and size the hardware and software infrastructure requirement within the total bid price, without any additional cost to employer. **Bidder shall submit the Financial Bid only on the online portal i.e. www.nprocure.com**

Note: The bidder should quote the 65% of the total contract value as part of the SITC phase (Capex) while remaining 35% should quote as part of the Operation & Maintenance (O&M) phase.

Sr. No.	Line Item	Unit of measurement	Minimum Qty	Make	Model	Full Compliance with RFP requirements (Y/N)
Work Package - 1 Basic Infrastructure						
Network passive- Back-bone						
1	Supply of 144 core armored FO cable, single mode, G652 D with FO splice closures with complete accessories along with supply and Laying of warning tape, pull thru chambers, splice chambers, protection materials, Electronic route locators, earthing of armored FO cable, etc.	Mtr.	14000			
2	Supply and Laying of 12 way (40 mm OD) ducts along with survey, excavation and resurfacing Up to 1.5 Mtr. in all kind of soil and surface (open cut /HDD) as per standards with required accessories	Mtr.	14000			

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3	Supply of rack in server room and Primary POP (42U)	Nos.	12			
Network passive- Distribution						
4	Supply of Unarmored 144 F FO cable, single mode, G652 D along with LIU and FO splice closures with complete accessories.	Mtr.	12000			
5	Supply of racks in service areas (42U)	Nos.	6			
Network passive - Access: CCTV						
6	Supply of Fiber patch panel (fully loaded), with complete accessories	Lump sum/Lot	1			
7	Supply of 144 F Fiber with complete accessories (FTTx)	Mtr.	45000			
8	Supply of cat 6 patch cable	Lump sum/Lot	1			
9	Supply of Splice closure (fully loaded)	Lump sum/Lot	1			
10	Patch chords, 1 Mtr length	Lump sum/Lot	1			
11	Patch chords, 5 Mtr length	Lump sum/Lot	1			
Network passive - Accesses: VMS, poles, sensors, etc.						
12	Supply of Fiber patch panel (fully loaded), with complete accessories	Lump sum/Lot	1			
13	Supply of cat 6 patch cable	Lump sum/Lot	1			
14	Supply of Splice closure (fully loaded)	Lump sum/Lot	1			
15	Patch chords, 1 Mtr length	Lump sum/Lot	1			
16	Patch chords, 5 Mtr length	Lump sum/Lot	1			
Network Active						
17	Server Room Core Router	Nos.	2			
18	Internet Router	Nos.	2			

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19	Server Room WAN Switch	Nos.	2			
20	Network Firewall (NGFW)	Nos.	2			
21	Server Room Core Switch	Nos.	2			
22	Server Room Access Switch	Nos.	6			
23	SA Distribution Device/Switch	Nos.	14			
24	SA Access Switches (PoE+)	Nos.	21			
25	Server Load Balancer (SLB)	Nos.	2			
26	Blade Chassis and management	Lump sum/Lot	1			
27	Blade Servers	Lump sum/Lot	1			
28	Network Access Control & Authentication System	Nos.	2			
29	Backup Solution	Nos.	1			
30	SAN Switch	Nos.	2			
31	Unified NAS with NL-SAS (1 PB)	Nos.	1			
32	Unified Backup Storage (250 TB)	Nos.	1			
33	Industrial Ethernet Switch (Industrial Grade)	Nos.	20			
34	Database licenses	Lump sum/Lot	1			
35	OS licenses	Lump sum/Lot	1			
36	UPS (sizing as per proposed solution)	Nos.	2			
37	Rodent Repellent system	Nos.	1			
38	Variable Message Signboard server	Nos.	1			
39	End Point Security Solution (Enterprise)	Nos.	1			
40	Air Conditioning (as per proposed solution)	Lump sum/Lot	1			
Enterprise Management System & Network Management System						
41	Enterprise Management System & Network Management System	Lump sum/Lot	1			

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City Wide Sensors						
42	Gas level Monitoring	Nos.	1			
43	Wind Speed Monitoring	Nos.	1			
44	Environmental Sensor (Rainfall & Noise Pollution & Air Quality Monitoring)	Nos.	1			
45	Metrological data sensor	Nos.	1			
City Integrated Operations Platform						
46	Integration Platform: SCADA, CEPT, WTP, Gas, Utilities, etc.	Lump sum/Lot	1			
	- Integration services,					
	- Data Normalization/IoT Software,					
	- City Mobile application,					
	- Analytics Engine with visualizations (BI/Analytics)					
	- Reporting tool,					
	- Video integration module					
	- City Operation software					
	- Notifications, Alerts & Alarms					
	- Standard Operating Procedure					
	- Social Media					
	- Intelligence Support					
	- Policies & Events					
	- Dashboard & Reporting					
	- Monitoring & Control					
47	Any Other Item	Lump sum/Lot	1			
Work Package - 2 City Applications						
ERP System						
1	HR Management	Lump sum/Lot	1			
2	Payroll Management					
3	Finance Management					

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4	Projects & Works Management					
5	Asset Management					
6	Contracts & Inventory Management					
7	CRM					
8	Process workflow					
9	Master Data Governance					
Multi Service Kiosk						
10	Multiservice Kiosk	Nos.	2			
Common applications						
11	Web Portal	Nos	1			
12	Mobile Application/platform	Nos.	1			
13	Any other item	Lump sum/Lot	1			
Work Package - 3 Integrated Operations						
Surveillance						
1	Box Camera with required accessories (e.g. Power supply, IR illuminator, cables etc.)	Nos.	24			
2	PTZ cameras	Nos.	17			
3	Video Management Software + Analytics	Nos.	1			
4	Recording Server	Lump sum/Lot	1			
5	Database/Management Server	Lump sum/Lot	1			
CIOC Setup						
6	Site Preparation (furniture) covering Cubicles with Table and Chair for operators, Partitioning, Enclosures, Earthing, Power Cabling, Interiors, etc. for 50 Seating capacity	Nos.	1			
7	2 Screen –Operators Client Workstations for Command Control Centre.	Nos.	15			
8	Video Wall Solution with 70 inch or more display Cubes (4x2) with Controller and required Software	Nos.	1			

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9	Video Wall Solution with 70 inch or more display Cubes (6x3) with Controller and required Software	Nos.	1			
10	Indoor LED display for public (3000 mm x 1700 mm or higher)	Nos.	1			
11	Camera Type 3 - Dome Camera mounting arrangements/accessories for Command Center & DC	Nos.	10			
12	Command Centre Site Preparation covering Partitioning, False flooring, cooling, access control system, etc.	Nos.	1			
13	Codec based VC System	Nos.	2			
14	Helpdesk Solution, IPBX System	Nos.	1			
15	Video Conference System with collaborative display	Nos.	1			
16	IP Phones	Nos.	25			
17	IP Phones with Display	Nos.	10			
18	Headsets for operators with built in mic	Nos.	20			
19	Multifunctional keyboard with touchscreen panel screen	Nos.	2			
Integrated Building Management System (IBMS)						
20	IBMS Integration Software	Nos.	1			
Variable Message sign boards						
21	Variable Message Sign Application	Nos.	1			
22	Variable Message Sign Boards on Road (Minimum Display size: 25 Feet x 9 Feet)	Nos.	4			
23	Any other item	Lump sum/Lot	1			
24	ISO 27001 and ISO 20000 certification during O&M Phase	Lump sum/Lot	1			

Volume-I, Section-2.2.1 Pre- Qualification Criteria, Note: 2, Pg. No. 22

2. Terms & conditions for claiming financial experience & support from parent company as at clause 2.2.1 (2) above:

- a) The parent company should have been holding at least 75 % equity stake, to be certified by statutory auditor or chartered accountant attaching copy of last Annual General Meeting resolution of share holders and
- b) The parent company should have been holding at least 75 % equity stake as on the date of signing (not earlier than (will fix date as 30 days before bid date being notified while releasing this amendment) joint declaration/undertaking alongwith Lead Bidder and the parent company shall continue to hold at least 75 % equity stake till project completion i.e successful parallel operation (completion of D+15) including any extension thereof (as per Appendix 9A). The Bidder and his parent company shall not go for dilution of stake by parent company in Bidder's company without advance written permission of the employer, decision of which shall be subject to sole discretion of the Employer. The joint declaration must be signed by authorised person making the bid and by person from parent company duly authorized by CEO of the parent company and
- c) c) The Lead bidder shall continue to provide certificate from statutory auditor or chartered accountant along with copies of future Annual statement of accounts of Annual General Meetings of Share Holders duly certified within 30 days of such meetings in support of continuity of holding 75 % stake by parent company and
- d) d) The parent company shall provide additional performance bank guarantee for an amount of equivalent to 5.0 % of contract value for faithful performance of providing financial support/obligations by parent company as may be required valid till 90 days after completion of D+ 15 (successful parallel run) and its acceptance by employer including any extension thereof as per format at Appendix A-1 to Vol -III of conditions to Contract. Any Bank guarantee provided by overseas parent company, if so, shall be required to be adjudicated from Indian bank at the cost of Lead bidder. The Employer shall reserve its discretion to fix responsibility with parent company or Lead bidder or both, if situation arises so and
- e) e) The bidder shall provide translated copies of any document, if happens to be in language other than English, duly certified by registered translator or Indian embassy along with his bid itself, failing which the same is likely not to be considered by the employer, at risk of the Bidder.

Volume-I, Appendix-9A Format of Joint Declaration/ Undertaking by Lead Bidder and parent company

(To be executed on stamp paper of appropriate value- content to be removed while preparation of document)

THIS JOINT BIDDING AGREEMENT is entered into on this the [date in words] day of [month in words] [year in 'yyyy' format].

AMONGST

1. [Name of company], a company incorporated under the Companies Act, 1956 and having its registered office at [registered address] (hereinafter referred to as the "Lead Bidder" which expression shall, unless repugnant to the context include its successors and permitted assigns);

AND,

2. [Name of company], a company incorporated and having its registered office at [registered address] (hereinafter referred to as the "Parent Company" which expression shall, unless repugnant to the context include its successors and permitted assigns);

The above-mentioned parties as Lead Bidder and Parent Company are collectively referred to as the "Parties" and each is individually referred to as a "Party".

WHEREAS,

- a) Dholera Industrial City Development Limited (DICDL) hereinafter referred to as the "Employer" which expression shall, unless repugnant to the context or meaning thereof, include its administrators, successors and assigns) has invited proposals ("the Proposal") by its Request for Qualification - cum - Request for Proposal dated [date] (the "RFQ cum RFP") for appointment of Master System Integrator for [name of assignment] (the "Project").
- b) The Parties are interested in jointly bidding for the Project as Lead Bidder and parent Company of lead Bidder and in accordance with the terms and conditions of the RFQ cum RFP document and other bid documents in respect of the Project, and
- c) It is a necessary condition under the Project that the parties shall furnish declaration /declaration in respect of relationship as child and parent company to the Employer as apart of getting through the certain financial Pre-Qualifying requirements and furnish a copy thereof with the Proposal as follows:

NOW IT IS HEREBY AGREED as follows:

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1. Definitions and interpretations: In this Agreement, the capitalized terms shall, unless the context otherwise requires, have the meaning ascribed thereto under the RFQ cum RFP.
2. Child & Parent relationship:
 - a) The Parties do hereby irrevocably declare that the parent company holds% equity stake in Lead Bidder company as appearing in last annual General Meeting of shareholders held on, copy attached.
 - b) The Parties do hereby irrevocably declare that the parent company holds% equity stake in Lead Bidder company as on the date of signing this declaration cum undertaking.
 - c) The Parties do hereby irrevocably further declare that the parent company shall continue to hold minimum% equity stake in Lead Bidder company in long run and in any case shall not break till completion of D+ 15 (successful parallel run) and its acceptance by employer including any extension thereof, which has been clearly understood by the parties.
 - d) The parent company has shared his information pertaining to Net worth as on latest financial year and average annual turnover of last 3 years to the lead bidder with assurance to support the lead bidder financially as may be required.
 - e) The lead bidder has expressed its intention to participate against the RFQ cum RFP floated for Master System Integrator (MSI) for Design, Supply, Install, Test, Integrate, Commissioning, Operation & Maintenance of ICT Components in Cluster A1 of Activation Area at Dholera Special Investment Region, Gujarat by Dholera Industrial City Development Limited (DICDL) parent company.
 - f) The Parties hereby undertake to participate in the Bidding process only through the lead bidder and the parent company has not individually and/ or through any other consortium constituted for this Project, either directly or indirectly or through any of their Affiliates.
3. The Parent company has clearly understood that the Lead Bidder has option to form Joint Ventures with other companies to get technical and financial support in order to submit the proposal meeting Employer Pre-Qualifying requirements to execute the work to the entire satisfaction of employer and that the parent company has no objection to the same.
4. Covenants: The Parties hereby undertake that in the event the Lead Bidder is declared the selected Master System Integrator and awarded the Project, the parent company shall support the lead Bidder financially as may be required time to time to execute the contract for Master System Integrator services ("Contract") with the Employer and for performing all obligations in terms of the Contract for the Project. The Parent Company has further clearly understood that in the event as defined above the parent company shall furnish performance Bank Guarantee for 5% value of the contract valid till 90 days after completion of D+ 15 (successful parallel run) and its acceptance by employer including any extension thereof as per format provided by the employer, in favor of Employer.
5. Bidder in-charge: Without prejudice to the parent – child relationship, each Party agrees that it shall exercise all rights and remedies under the Contract through the Lead Bidder and the Employer shall be entitled to deal with Parent company as the representative of all Members. Each Party agrees and acknowledges that:

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- a) any decision (including without limitation, any waiver or consent), action, omission, communication or notice of the Lead Bidder on any matters related to the Contract shall be deemed to have been on its behalf and shall be binding on it. The Employer shall be entitled to rely upon any such action, decision or communication from the Lead Bidder;
 - b) consolidated invoices for the services in relation to the Project performed by the lead bidder along with Joint venture partners shall be prepared and submitted by Lead Bidder and the Employer shall have the right to release payments solely to the Lead Bidder and the Employer shall not in any manner be responsible or liable for the inter se allocation of payments, works etc. to the parent company;
 - c) any notice, communication, information or documents to be provided to the Master System Integrator shall be delivered to the authorized representative of the Project (as designated pursuant to the Contract) and any such notice, communication, information or documents shall be deemed to have been delivered to parent company as well.
- 6 Representation of the Parties: Each Party represents to the other Parties as of the date of this Agreement that:
- a) Such Party is duly organized, validly existing and in good standing under the laws of its incorporation and has all requisite power and authority to enter into this Agreement;
 - b) The execution, delivery and performance by such Party of this Agreement has been authorized by all necessary and appropriate corporate or governmental action and a copy of the extract of the charter documents and board resolution/ power of attorney in favor of the person executing this Agreement for the delegation of power and authority to execute this Agreement on behalf of the Party is annexed to this Agreement, and will not, to the best of its knowledge:
 - i. require any consent or approval not already obtained;
 - ii. violate any Applicable Law presently in effect and having applicability to it;
 - iii. violate the memorandum and articles of association, by-laws or other applicable organizational documents thereof;
 - iv. violate any clearance, permit, concession, grant, license or other governmental authorization, approval, judgement, order or decree or any mortgage agreement, indenture or any other instrument to which such Party is a party or by which such Party or any of its properties or assets are bound or that is otherwise applicable to such Party; or
 - v. create or impose any liens, mortgages, pledges, claims, security interests, charges or Encumbrances or obligations to create a lien, charge, pledge, security interest, encumbrances or mortgage in or on the property of such Party, except for encumbrances that would not, individually or in the aggregate, have a material adverse effect on the financial condition or prospects or business of such Party so as to prevent such Party from fulfilling its obligations under this Agreement.
 - c) This Agreement is the legal and binding obligation of such Party, enforceable in accordance with its terms against it; and
 - d) There is no litigation pending or, to the best of such Party's knowledge, threatened to which it or any of its Affiliates is a party that presently affects or which would have a material adverse effect on the financial condition or prospects or business of such Party in the fulfilment of its obligations under this Agreement.
- 7 Termination: This Agreement shall be effective from the date hereof and shall continue in full force and effect until the Effective Date under the Contract, in case the Project is awarded to the Lead Bidder along with other Joint ventures companies. However, in case the Lead Bidder is not

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selected for award of the Project, the Agreement will stand terminated upon intimation by the Employer that it has not been selected and upon return of the Bid Security by the Employer to the Lead Bidder.

8 Miscellaneous:

- a) This Agreement shall be governed by laws of India;
- b) The Parties acknowledge and accept that this Agreement shall not be amended by the Parties without the prior written consent of the Employer.

IN WITNESS WHEREOF THE PARTIES ABOVE NAMED HAVE EXECUTED AND DELIVERED THIS AGREEMENT AS OF THE DATE FIRST ABOVE WRITTEN.

SIGNED, SEALED & DELIVERED

For and on behalf of LEAD BIDDER by: [Signature]

[Name]

[Designation]

[Address]

SIGNED, SEALED & DELIVERED for and on behalf of

PARENT COMPANY by: [Signature]

[Name]

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[Designation]

[Address]

In presence of:

1. [Signature, name and address of witness]

2. [Signature, name and address of witness]

Notes:

- 1. The mode of the execution of the declaration/ undertaking Agreement should be in accordance with the procedure, if any, laid down by the Applicable Law and the charter documents of the executant(s) and when it is so required, the same should be under common seal or official seal of both parties.*
- 2. The declaration/ undertaking agreement should attach a copy of the extract of the charter documents and documents such as resolution / power of attorney in favor of the person executing this Agreement for the delegation of power and authority to execute this Agreement on behalf of the parties.*
- 3. For a declaration / undertaking Agreement executed and issued overseas, the document shall be legalized by the Indian Embassy and notarized in the jurisdiction where the Power of Attorney has been executed.*

Volume-III, Conditions of Contract, Appendix A-1 Form of Bank Guarantee for Performance Security on behalf of parent Company

(To be stamped in accordance with Stamp Act if any, of the country for issuing bank- content to be removed while preparation of document)

Ref.:

Bank Guarantee:

Date:

Dear Sir,

In consideration of M/s Dholera Industrial City Development Limited (DICDL) (hereinafter referred as the 'Employer', which expression shall, unless repugnant to the context of meaning thereof include its successors, administrators and assigns) having awarded to M/s [name of MSI] a [type of company], established under laws of [country] and having its registered office at [address] (hereinafter referred to as the 'MSI' which expression shall unless repugnant to the context or meaning thereof, include its successors, administrators, executors and permitted assigns), an Assignment for preparation of [name of assignment] Contract by issue of Employer's Contract Letter of Award No. [reference] dated [date] and the same having been unequivocally accepted by the MSI, resulting in a Contract valued at Rs. [amount in figures and words] for (Scope of Work) (hereinafter called the 'Contract') and M/s [name of parent Company] being parent company to the MSI having furnished declaration / undertaking to the Employer for providing financial support to the MSI, as may be required from time to time, to execute the contract effectively, agreed to furnish a Bank Guarantee amounting to Rs. [amount in figures and words] to the Employer for faithful performance of the said declaration/undertaking/ Contract Agreement.

We [Name of Bank] incorporated under [law and country] having its Head Office at [address](hereinafter referred to as the Bank), which expression shall, unless repugnant to the context or meaning thereof, include its successors, administrators executors and assigns) do hereby guarantee and undertake to pay the Employer immediately on demand and or, all monies payable by the MSI to the extent of Rs. [amount in figure and words] as aforesaid at any time up to [date] without any demur, reservation, contest, recourse or protest and/ or without any reference to the MSI. Any such demand made by the Employer on the Bank shall be conclusive and binding notwithstanding any difference between the Employer and the MSI or any dispute pending before any Court, Tribunal, Arbitrator or any other authority.

We agree that the Guarantee herein contained shall be irrevocable and shall continue to be enforceable until the Employer discharges this guarantee.

The Employer shall have the fullest liberty without affecting in any way the liability of the Bank under this Guarantee, from time to time to vary the advance or to extend the time for performance of the Contract by the MSI, with the presumption that the MSI has kept informed the parent company, nor shall the responsibility of the bank be affected by any variations in the terms and conditions of the contract or other documents. The Employer shall have the fullest liberty without affecting this guarantee, to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the Employer and to exercise the same at any time in any manner, and either to enforce or to forbear to enforce any covenants, contained or implied,

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in the Contract between the Employer and the MSI any other course or remedy or security available to the Employer. The Bank shall not be relieved of its obligations under these presents by any exercise by the Employer of its liberty with reference to the matters aforesaid or any of them or by reason of any other act or forbearance or other acts of omission or commission on the part of the Employer or any other indulgence shown by the Employer or by any other matter or thing whatsoever which under law would but for this provision have the effect of relieving the Bank.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the MSI or the parent company and notwithstanding any security or other guarantee that the Employer may have in relation to the MSI's liabilities. This Guarantee shall be irrevocable and shall remain in full force and effect until discharge by the Bank of all its obligations hereunder.

This Guarantee shall not be affected by any change in the constitution or winding up of the MSI or the parent company or the Bank or any absorption, merger or amalgamation of the MSI or Parent company or the bank with any other Person.

Notwithstanding anything contained herein above our liability under this guarantee is limited to Rs. [amount in figure and words] and it shall remain in force up to and including [date] and shall extend from time to time for such period(s) (not exceeding one year), as may be desired by M/s [name of parent company] on whose behalf this guarantee has been given.

Date this [date in words] day [month] of [year in 'yyyy' format] at [place].

WITNESS

1. [signature, name and address]

2. [signature, name and address]

[Official Address] Designation

[With Bank Stamp]

Attorney as Per Power of Attorney No.....dated
Strike out, whichever is not applicable.

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The stamp papers of appropriate value shall be purchased in the name of bank which issues the 'Bank Guarantee'. The bank guarantee shall be issued either by a bank (Nationalized/Scheduled) located in India or a foreign bank through a correspondent bank (scheduled) located in India or directly by a foreign bank which has been determined in advance to be acceptable to the Employer. The bank guarantee issued by the foreign bank shall require to be adjudicated by an Indian bank at the cost of MSI.