

BID FOR THE SELECTION OF AGENCY FOR SUPPLY, INSTALLATION, COMMISSIONING & WARRANTY SUPPORT OF VARIOUS EQUIPMENT'S FOR THE IMPLEMENTATION OF VIDEO SURVEILLANCE SYSTEM AT VARIOUS GOVERNMENT INSTITUTES/COLLEGES WORKING UNDER OFFICE OF THE COMMISSIONER OF HIGHER EDUCATION, GOVERNMENT OF GUJARAT - RFP.NO. HWT240120609 CORRIGENDUM-1 (15.02.2020)

Eligibility Criteria:

Criteria No.	Existing Criteria	Revised Criteria
1	The bidder should have a total sum of turnover of Rs. 15 Crore (Minimum) in the last three financial years as on 31 st March 2018. The copies of Audited Annual Accounts/Balance Sheet along with Profit & Loss Account and CA Certified Statement for last three financial years as on 31 st March 2019 shall be attached along with the bid	The bidder should have a total sum of turnover of Rs. 10 Crore (Minimum) in the last three financial years as on 31 st March 2018. The copies of Audited Annual Accounts/Balance Sheet along with Profit & Loss Account and CA Certified Statement for last three financial years as on 31 st March 2019 shall be attached along with the bid

Changes in BoQ:

Item no.	Item name	Old Qty.	Revised Qty.
28	Central Video Management Software for Command Control Center	6	1

Changes in minimum specifications:

Item no. 1: Indoor Dome 2MP IP Camera			
Sr. No.	Item (Minimum Specification)	Matched/ Not Matched	Remarks (if any)
1	Image sensor : 1/3" Progressive Scan CMOS 2 MP or better		
	Indoor Dome 2MP IP Camera should support Internal/External microphone for audio recording		
	Lens: 2.8 to 12 mm or better, DC-iris, motorized		
	Day and Night: Automatic/manual/scheduled		
	IR Range: Min 30 Mtr or better		
	WDR: True WDR >=120 db		
	Min. Illumination / Light Sensitivity: Color mode: F1.2 @ 0.5 lux and B&W mode: F1.2@ 0.01 lux		
	Light sensor: Senses the level of ambient light to determine when to switch day/night mode.		
	Video Compression: H.264, H. 265, H.265+		
	Video Stream: Individually configurable min 03 video streams (H.264/H.265), Unicast/ Multicast		
	Intelligent Video: Motion Detection, Camera Tampering Trip wire, Perimeter intrusion detection, HLC, Corridor mode.		
	Resolutions and frame rates : 25/30 fps at 1920x1080 (1080p)		
	Protocol Support: Ipv4, Ipv6, TCP/IP, HTTP, DHCP, UDP, DNS, SMTP, RTP, RTSP, SNMP protocols/Should meet all functional requirement of the project		
Interface: 10/100BaseT or better RJ45 Port with 802.3af POE Support, Should support 2 way Audio and should support 1 port Alarm Input, 1 port Alarm output			

Camera Should remote Zoom and Auto focus		
Camera should supplied with 32GB Micro SD/SDHC /SDXC memory card for recording		
IP 66 and IK 10 Rated housing		
Should be ONVIF compliant		
Certification- CE or FCC and UL/ETL, BIS certified at the time of bidding, The OEM should have ISO 9001:2008 and ISO 14001:2004 certificate for Manufacturing.		
Operating Temperature: 0-50 °C		

Item no.: 3 : 16 CH Network Video Recorder

Sr. No.	Item (Minimum Specification)	Matched/ Not Matched	Deviation/ Remarks, (if any)
3	16 Channels or better NVR with supports up to 4 SATA hard drives each support up to 8TB, Should be loaded with 16 TB Capacity of HDDs.		
	Support 4K streaming, Support 16 Channel up to (3840*2160) Resolution Support 150 Mbps or higher of incoming Bandwidth		
	Support MJPEG, H.264 and H.265, H.265+		
	1# of Fast Ethernet port		
	Support ONVIF 2.0 and above cameras, Should support Remote live view and remote playback,		
	VGA D-sub and HDMI, 2 nos. of USB port, Should support Network storage and backup		
	Should support 16 Channels streaming in Single screen, 08 Channels synchronous Playback		
	Certification- CE or FCC and UL/ETL, BIS certified at the time of bidding The OEM should have ISO 9001:2008 and ISO 14001:2004 certificate for Manufacturing		
	NVR and IP CCTV camera should be same make		

Item no.: 4 : 32 CH Network Video Recorder

Sr. No.	Item (Minimum Specification)	Matched/ Not Matched	Deviation/ Remarks, (if any)
4	32 Channels or better NVR with supports up to 8 SATA hard drives each support up to 8TB, Should be loaded with 24 TB Capacity of HDDs. Should support Raid 0,1,5,6,10 support		
	Support 4K streaming, Support 32 Channel up to (3840*2160) Resolution Support 250 Mbps of incoming Bandwidth, support e-sata and USB		
	Support MJPEG, H.264 and H.265, H.265+		
	2# of Gigabit port with load balancing and failover		
	Support ONVIF 2.0 and above cameras, Should support Remote live view and remote playback,		
	VGA D-sub and HDMI, 2 nos. of USB port, Should support Network storage and backup		
	Should support 32 Channels streaming in Single screen, 16 Channels synchronous Playback		
	Certification- CE or FCC and UL/ETL, BIS certified at the time of bidding The OEM should have ISO 9001:2008 and ISO 14001:2004 certificate for Manufacturing		
NVR and IP CCTV camera should be same make			

Item no. 7: 8 port PoE Layer-2 Network Switch

Sr. No.	Item (Minimum Specification)
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1	a) Switch should have minimum 8 # 10/100/1000 Base-Tx PoE ports Duplex, Full, Half . b) Min. 2 nos. of SFP ports (populated). c) Switch PoE power rating should be 120W for 8 Port
2	Should have minimum switching capacity as per the proposed switch and solution requirement.
3	Should be IPv4 and IPv6 ready from day one
4	Should have IGMP snooping v1 &2 supporting min 100 multicast groups
5	Should support protocols like MSTP, STP, RSTP, dot1q VLAN-tagging, IEEE 802.3ad, NTP
6	Switch should support Port-based and 802.1Q tag-based VLANs, MAC-based VLAN, Guest VLAN, Private VLAN, with multiple uplinks
7	All ports should have features of auto- negotiate, flow control (802.3x), port-based network access control (802.1x), port security, MAC filtering etc.
8	The switch should support, IPv6 DHCP-Guard/ DHCP Snooping, Source-Guard features
9	All necessary SFP's, interfaces, connectors, patch cords (if any) & licenses must be delivered along with the switch from day one.
10	Should have console port for administration & management, CLI and web-based GUI for easy Management
11	Port Security to secure the access to a port based on the MAC address of a user's device. The aging feature to remove the MAC address from the switch after a specific time to allow another device to connect to the same port.
12	Multilevel security on console access to prevent unauthorized users from altering the switch Configuration.
13	Web/SSL, Telnet server/SSH, ping, traceroute, Simple Network Time Protocol (SNTP)/NTP, Trivial File Transfer Protocol (TFTP), SNMP, RADIUS, syslog, DNS client, protocol-based VLANs
14	Duplicate address detection (DAD)
15	Operating Temperature: 0 ° C to 50 ° C
16	10 % to 90 % RH, non-condensing
17	The Switch should be Rack mountable & the switch should be supplied with Indian standard AC power cord
18	Certification:- CE, FCC certified at the time of bidding. All types of Switches and SPF modules should be form same OEM

Item no. 8: 24 port Layer-2 Network Switch

Sr. No.	Item (Minimum Specification)
1	a) Switch should have minimum 24 # 1 G SFP Port . b) Min. 4 nos. of SFP+ ports. c) Minimum 8 10/100/1000 Base-T combo Ports (should be out of 24 # 1 G SFP Port or additional)
2	Should have minimum switching capacity as per the proposed switch and solution requirement.
3	Should be IPv4 and IPv6 ready from day one
4	Should have IGMP snooping v1 &2 supporting min 100 multicast groups
5	Should support protocols like MSTP, STP, RSTP, dot1q VLAN-tagging, IEEE 802.3ad, NTP
6	Switch should support Port-based and 802.1Q tag-based VLANs, MAC-based VLAN, Guest VLAN, Private VLAN, with multiple uplinks. Should support Inter-Vlan routing
7	All ports should have features of auto- negotiate, flow control (802.3x), port-based network access control (802.1x), port security, MAC filtering etc.
8	The switch should support, IPv6 DHCP-Guard/ DHCP Snooping, Source-Guard features
9	All necessary SFP's, interfaces, connectors, patch cords (if any) & licenses must be delivered along with the switch from day one.
10	Should have console port for administration & management, CLI and web-based GUI for easy Management
11	Port Security to secure the access to a port based on the MAC address of a user's device. The aging feature to remove the MAC address from the switch after a specific time to allow another device to connect to the same port.
12	Multilevel security on console access to prevent unauthorized users from altering the switch Configuration.
13	Web/SSL, Telnet server/SSH, ping, traceroute, Simple Network Time Protocol (SNTP)/NTP, Trivial File Transfer Protocol (TFTP), SNMP, RADIUS, syslog, DNS client, protocol-based VLANs

14	Duplicate address detection (DAD)
15	Operating Temperature: 0 ° C to 50 ° C
16	10 % to 90 % RH, non-condensing
17	The Switch should be Rack mountable & the switch should be supplied with Indian standard AC power cord
18	Certification:- CE, FCC certified at the time of bidding. All types of Switches and SPF modules should be form same OEM

Item 26. Poles including mounting/installation

Sr. No.	Parameter	Minimum Required Specifications	Matched/Not Matched	Remarks (if any)
26	Pole type	Galvanized pole as per IS:2629 and Fabrication as per IS:2713		
	Height	6 meter above ground surface Bottom section : 1.4 meter Middle Section : 1.4 meter Top Section : 3.2 meter		
	Foundation	Minimum 1 meter so as to ensure that video feed quality is not impacted due to winds in different climatic conditions and from vibration caused due to heavy vehicles on road		
	Pole Diameter (Outer side)	Bottom section : 97.9mm Middle Section : 76.2mm Top Section : 65.2mm		
	Bottom Base Plate	300mm x 300mm x 6mm		
	Protection	Lightening arrestor and Earthing		
	Cantilevers	The pole should support 3 number of cantilever of varying length from 0.5 to 2.0 meters. The cantilever should be fitted such that the can be rotated to change the direction or adjust the angle, if at all required. The Cantilever should be strong enough so as to mount at least 2 CCTV camera's, if required.		
	Mounting Facility	Should support pole, cantilever, Junction Box		

Item no. 30: 24 port Layer-3 Network Switch for Command Control Center

Sr. No.	Item (Minimum Specification)	Matched/ Not Matched	Remarks (if any)
30	Minimum Shall support 8# 10/100/1000 Mbps Base-T, 24# SFP+ 10G Fiber Ports, 2# 40G QSFP fiber slot, 1No of 40G QSFP SM 10KM Module and 3Mtr Fiber Patch cord should be supplied along with switch 24# 10/100/1000 Mbps Base-T POE Ports, 4# SFP+ 10G Fiber Ports 1No of 1G SFP Modules with SM 10KM Support along with supporting fiber patch cord 3mtr length should be included Per Switch. RJ45/micro USB console port, SNMP v2 and v3, LACP, Multicast routing, PIM-SM, PIM-DM, IGMP v1/v2/v3, DVMRP, 4K Vlan, built-in Power supply RPS Power Supply support Should support 1+1 AC/DC Power Supply Redundancy,, Rack mountable, CE, FCC. The OEM should have ISO 9001:2008 and ISO 14001:2004 certificate for Manufacturing		

Item no. 31: Fiber channel Dual Controller storage for Command Control Center

Sr. No.	Item (Minimum Specification)	Matched/ Not Matched	Remarks (if any)
31	Data Storage Configurable 19" Rack Mountable, Min. 3U or Higher Chassis, 6Gb SAS and iSCSI Target Device Network Attached Storage / FC / iSCSI Solution for Flexible and Expandable Solution.		
	Supports 6Gbps & 3Gbps SAS, NL SAS & Enterprise SATA Hard drives simultaneously		

Supports SNMP/email notification and auto system log information from USB port		
Storage The storage system will have total of 300TB actual Storage Space after Raid 60 configuration, support minimum 300 TB via single ISCSI		
The additional enclosures also will be with dual controller cards and 2+1 Redundant power supplies.		
The system should be able to scalable up to 110 Hard drives or 1PB Storage in single architecture		
System can support Hardware RAID levels 0,1,10,3,5,6,30,50,60.		
Battery Backup Unit Support for power shortage		
The Complete system is High availability design with dual hot swappable controller cards		
Support 64 bit 6 core or better CPU support per controller, DDR3 64G data cache Loaded (32G per controller), 3# hot swappable redundant Power supply unit, 2# rear redundant hot swappable Fans, Internal environmental status monitoring		
Virtualization features support like Vmware/Citrix, Hyper-V		
Interface support - 4# 10GSFP+ slots and 8# 1G BASE-T (2# 10G SFP+ & 4# 1G per controller),		
Networking support for NIC Trunking/load balance/fail over/802.3ad, DHCP server/DHCP client, WINS server and Internet gateway.		
Protocol support for TCP/IP, SMB/CIFS, NFS, SNMP v1/v2c/v3, FTP, HTTP, HTTPS, Telnet, SSH, AFP, WebDAV. Support OS for 2003 / Vista /2008, Unix / Linux and Mac.		
User accounts Microsoft Active Directory Authentication, Network Information Service, Batch creation of users/group, user quota management, share level and file level security with access control list setting.		
Up to 100K domain account support, up to 1K concurrent sessions support		
Security and data protection Support like online Raid level migration/reconfiguration, online volume copy, Advance Battery Flash Backup		
Backup Server, Share Disk Clone, Remote Replication, Online Recovery, File Backup/Restore		
Application Mode like Buffer Management to benefit for more cameras supported, Less Frame Drop and Sequential Design Recording		
Data Protection Features like Faultless Rebuild to reduces Raid rebuilding time, online LUN clone to have multiple data copies		
Certification- CE or FCC and UL/ETL, BIS certified at the time of bidding The OEM should have ISO 9001:2008 and ISO 14001:2004 certificate for Manufacturing.		