

Corrigendum- dated 22.01.2020

Bid for Selection of Agency for Supply, Installation, Commissioning and warranty support of various Equipments for the Implementation of Video Surveillance System at Govt. Industrial Training Institute (ITI) working under Directorate of Employment and Training, Gandhinagar. Tender No: HWT060120601

Section – 5- Technical Specification

5.1 Indoor Fixed Dome Cameras

S/N	Specification
1.	Image sensor : 1/3" Progressive Scan CMOS 2 MP or better
2.	Lens: 2.8 to 12 mm or better, DC-iris, motorized
3.	Day and Night: Automatic/manual/scheduled
4.	IR Range: Min 30 Mtr or better
5.	WDR: True WDR >=120 db
6.	Min. Illumination / Light Sensitivity: Color mode: F1.4 @ 0.5 lux and B & W mode: F1.4@ 0.01 lux
7.	Light sensor: Senses the level of ambient light to determine when to switch day/night mode.
8.	Video Compression: H.264, H. 265, H.265+
9.	Video Stream: Individually configurable min 03 video streams (H.264/H.265), Unicast/ Multicast
10.	Intelligent Video: Motion Detection, Camera Tampering, camera masking, Trip wire, Perimeter intrusion detection, HLC, Corridor mode.
11.	Resolutions and frame rates : 25/30 fps at 1920x1080 (1080p)
12.	Protocol Support: IPv4, IPv6, TCP/IP, HTTP, DHCP, UDP, DNS, SMTP, RTP, RTSP, SNMP protocols/Should meet all functional requirement of the project
13.	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.
14.	Camera Should remote Zoom and Auto focus
15.	Camera should support internal/external microphone and should be supplied with 32GB Micro SD/SDHC /SDXC memory card for recording
16.	IP 66 and IK 10 Rated housing
17.	Should be ONVIF Profile S compliant
18.	Certification:- ETL/UL, BIS certified at the time of bidding
19.	Operating Temperature: 0-50 °C

5.2 32 CH Network Video Recorder

Sr. No	Item (Minimum Specification)
1	32 Channels or better NVR with supports up to 8 SATA hard drives each support up to 8TB, Should be loaded with 32 TB Capacity of HDDs. Should support Raid 0,1,5
2	Support 4K streaming, Support 32 Channel up to (3840*2160) Resolution Support 250 Mbps of incoming Bandwidth, support e-sata and USB
3	Support H.264 and H.265, H.265+

4	2# of Gigabit port with load balancing and failover
5	Support ONVIF 2.0 and above cameras, Should support Remote live view and remote playback,
6	Interface: 3 USB, 2 HDMI, 1 VGA , 8 SATA, 2 RS-485, 1 RS-232 , 08 CH Alarm in, 4 CH Alarm out, 1 CH Audio In, 1 CH Audio out, Should support Network storage and backup
7	Should support 32 Channels streaming in Single screen, 16 Channels synchronous Playback
8	Certification- - CE/FCC/ETL, UL and BIS certified at the time of bidding The OEM should have ISO 9001:2008 and ISO 14001:2004 certificate for Manufacturing
9	NVR and IP CCTV camera should be same make

5.3 PoE Layer-2, 08 port Network Switch

Sr. No.	Item (Minimum Specification)
1	a) Switch should have minimum 8 # 10/100/1000 Base-Tx PoE ports Duplex, Full, Half . b) Min. 2 nos. of SFP ports (Unpopulated). 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, suitable Patch Panels with I/O's
18	Certification:- CE, FCC, UL/BIS certified at the time of bidding, All types of Switches and SPF modules should be form same OEM

5.4 PoE Layer-2, 16 port Network Switch

Sr. No.	Item (Minimum Specification)
1	a) Switch should have minimum 16 # 10/100/1000 Base-Tx PoE ports Duplex, Full, Half . b) Min. 2 nos. of SFP ports (Unpopulated). c) Switch PoE power rating should be 240W for 16 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, UL/BIS certified at the time of bidding, All types of Switches and SPF modules should be form same OEM

5.9 16 Port Cat-6 Jack / Patch Panel with I/Os

Sr. No.	Item (Minimum Specification)
1	Category Cat 6, No. of Ports 16 Ports, Features I/Os Individually replaceable Built-in Shutter Rear Cable Manager, Rack Mountable.

Section 6

Price Bid Format

Sr. No.	Item	Qty. (In Nos.)	Unit Price With 5 Year Warranty (In Rs.) (Without Tax)	Total Price With 5 Years Warranty (In Rs.) (Without Tax)	Rate of GST/Tax if any (%)
A	B	C	D	E=(C*D)	H
1	Indoor Dome IP Camera	384			
2	32 CH Network Video Recorder (NVR)	12			
3	PoE Layer-2, 8 port Switch	48			
4	PoE Layer-2, 16 port Switch	12			
5	600 VA UPS (with 15 Minutes battery backup)	48			
6	1 KVA Online UPS (with 30 Minutes battery backup)	12			
7	32" or higher LED display unit	12			
8	8 Port Cat-6 Jack / Patch Panel with I/Os	48			
9	16 Port Cat-6 Jack / Patch Panel with I/Os	12			
10	12 U Rack	12			
11	9 U Rack	48			
12	Surge Protection Power Strips	60			
13	1 feet Cat-6 Factory Crimped Patch Cord	384			
14	Mount Box at Camera End	384			
15	Cat 6 UTP cable with laying (in meter)	19200			
16	1.5" Size PVC pipe including Labor Charges (in meter)	9600			
Grand Total					

Form no. E5: Authorization Letters:

Sr. No.	Item	Make & Model	Name of OEM	Authorization Certificate Attached? (Yes/No)
1	Indoor Dome IP Camera			
2	32 CH Network Video Recorder (NVR)			
3	PoE Layer-2, 8 port Switch			
4	PoE Layer-2, 16 port Switch			
5	600 VA UPS (with 15 Minutes battery backup)			
6	1 KVA Online UPS (with 30 Minutes battery backup)			
7	32" or higher display unit			
8	8 Port Cat-6 Jack / Patch Panel with I/Os			
9	16 Port Cat-6 Jack / Patch Panel with I/Os			

1. **Note: bidder have to submit OEM Authorization for Indoor Dome IP Camera mentioning that, during the warranty period the video feed/image quality of camera due to lens will remain same and will not degrade.**

2. Note:

1. All the changes is highlighted as above, all other terms and conditions is as per Tender No: HWT060120601
2. We have revised financial bid on n-procure website also, bidder have to accordingly change in the financial section of n-procure website based on the said corrigendum