

Technical Specification for 8 MP Fixed Camera

Minimum Technical Specification		Bidders Response (Fully/Partially Compliance)
Brand	Specified by the bidder	
Model	Specified by the bidder	
Image Sensor	1/2.7" CMOS or better	
Resolution	3840 × 2160 or higher	
Lens Type	Fixed	
Frame Rate	20 fps (3840 × 2160) or higher	
Stream Capability	Minimum 2 streams	
Day & Night	24/7 Color Imaging	
IR Distance	50m or better	
Focal Length	4mm or better	
Min. Illumination	Color: ≤ 0.005 Lux or better	
WDR	120 dB or better	
Video Compression	H.265+, H.265, H.264, MJPEG or better	
System Compatibility	ONVIF (Profile S, G, T), SDK, ISAPI	
On-board Storage	Micro SD card (support min. 512 GB)	
Image Enhancement Features	BLC, HLC, 3D DNR or similar	
Communication Interface	1 RJ45 10/100 M or better	
Power Supply	12 VDC ± 25%, PoE (802.3af, Class 3)	
Protection	IP67 or better	
Document	Product datasheet, ISO Certificate, Manufacturer Authorization Certificate, Warranty Letter, and Compliance Sheet must be submitted along with the bid.	
Warranty and Support	Min. 1 year	

Technical Specification for 4 MP Fixed/Dome Camera

Particulars	Minimum Required Technical Specification	Bidder Response (Fully/Partially Compliance)
Brand	Specified by the bidder	
Model	Specified by the bidder	
Image Sensor	1/2.9" CMOS or better	
Resolution	2560 × 1440 or higher	
Lens Type	Fixed	
Frame Rate	25 fps (2560 × 1440) or higher	
Stream Capability	Minimum 2 streams	
IR Distance	30m or better	
Focal Length	2.8mm or better	
Min. Illumination	Color: ≤ 0.005 Lux or better	
WDR	120 dB or better	
Video Compression	H.265+, H.265, H.264, MJPEG or better	
System Compatibility	ONVIF (PROFILE S/T/G)	
On-board Storage	Micro SD card (support min. 512 GB)	
Image Enhancement	BLC, HLC, 3D DNR or similar	
Power Supply	12 VDC ± 25%, PoE (802.3af, Class 3)	
Protection	IP67 or better	
Document	Product datasheet, Manufacturer Authorization Certificate, Warranty Letter, and Compliance Sheet must be submitted along with the bid.	
Warranty Support and	Min. 1 year	

Technical Specification for 4 TB HDD

Minimum Required Technical Specification	Bidder Response (Fully/Partially Compliance)
Brand (Should be mentioned by bidder)	

Min. 4 TB SATA 6Gbps 5200 RPM or higher, Surveillance series, compatible with NVR, and Min 1 yr warranty. (Additional Documents:- Complain datasheet must provide)	
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Technical Specification for 24 Port POE Switch

Particulars	Minimum Required Technical Specification	Bidder Response (Fully/Partially Compliance)
Brand	Specified by the bidder	
Model	Specified by the bidder	
Interfaces	24 Gigabit PoE+ ports, 2 Gigabit RJ45 uplink ports, 2 Gigabit SFP uplink ports	
Switching Capacity	≥56 Gbps or better	
MAC Address Table	≥2000 or better	
Buffer Size	4 Mb	
PoE Budget	Min. 250 W total PoE budget (supporting IEEE 802.3af/at standards)	
PoE Standard	IEEE 802.3af/at (Max 30W per port)	
Working Mode	Default mode; CCTV mode (Supports watchdog)	
Security	Access Control List (ACL) L2-L4; Port-based and MAC-based 802.1X authentication; RADIUS/TACACS+; HTTPS, SSH v1/v2; Port Security; Broadcast/Multicast Storm Control.	
Forwarding Mode	Line-speed forwarding (non-blocking architecture)	
Lightning Protection	4KV	
Management	Web-based GUI; Command Line Interface (CLI); SNMP v1/v2c/v3; RMON; Cloud Management support (Optional but preferred).	
Environment	Operating: -10°C–45°C, 10%–90% humidity (non-condensing)	
Power Supply	Built-in AC: 100~240V, 50/60Hz	
Warranty	Min. 1 year (Standard Manufacturer Warranty).	

Technical Specification for 6 Core Fiber

Minimum Technical Specification	Bidders Response (Fully/Partially Compliance)

Fiber Type: - Single Mode (G.652D / G.657A1) or better, Outer	
Sheath Material: - High Density Polyethylene. (Min. 1 year Warranty Letter, complain datasheet must provide)	

6 Core Fiber Laying Cost

Minimum Technical Specification	Bidders Response <i>(Fully/Partially Compliance)</i>
Supply, installation, testing, and commissioning of fiber optic cabling at multiple locations, including provision and installation of splice (joint) closures (tiffin box type), fiber splicing, termination, patch cord installation, patch panel connectivity, and proper cable routing and management. The work shall include all necessary accessories such as pigtails, adapters, splice trays, cable ties, labels, protection sleeves, wall/duct supports, and other materials required for a complete, neat, and functional fiber optic network setup. All installations shall comply with relevant industry standards and best practices.	

Technical Specification for Cat6 Cable

Minimum Technical Specification	Bidders Response <i>(Fully/Partially Compliance)</i>
4 Pair- CAT6 UTP Solid Cable (outdoor),23 AWG Solid Bare Copper or better, Insulation material: UV-resistant and waterproof PE/PVC double jacket or better, HDPE or better, Power over Ethernet. (Additional Documents:- the complaint datasheet must be provided)	

Technical Specification for 43" Smart TV/Monitor

Particulars	Minimum Technical Specification	Bidders Response <i>(Fully/Partially Compliance)</i>
Brand	Specified by the bidder	
Model	Specified by the bidder	
Display	43-inches LED-or Higher	
Resolution	Full HD (1920 x 1080 pixels)	
Sound	2x 8W speakers	
Audio Decoder	Yes	
OS	Android 8 or higher	

Memory	1GB RAM, 8GB storage or higher	
HDR	Yes	
Refresh Rate	60Hz	
I/O	3x HDMI ,2x USB 2.0, ,1x Ethernet (LAN),	
Warranty	1 Year (Manufacturer Authorization Certificate Warranty Letter, and Compliance Sheet must be submitted with the bid.)	

Technical Specification for Pole Box

Minimum Technical Specification	Bidders Response <i>(Fully/Partially Compliance)</i>
Material: Often mild steel, galvanized steel sheet, die-cast aluminum, or fiberglass-reinforced plastic, Powder coated, (IP) rating of IP65 or IP66, designed for pole mounting, using adaptable for wall mounting and sufficient space to accommodate switch, SFF and other accessories in box	

Installation Charge

Minimum Technical Specification	Bidders Response <i>(Fully/Partially Compliance)</i>
Installing the camera, setup and Electrical Accessories, Camera Outdoor Box, RJ45, cable tie, Black tape etc. and other required accessories.	

Technical Specification for 4U rack

Minimum Technical Specification	Bidders Response <i>(Fully/Partially Compliance)</i>
Material Type: Racks manufactured out of steel sheet punched, formed welded and power coated, ide panel and vented top cover or better, Must be compatible for mounting NVR, Network switch etc. and Min. 1 yrs warranty.	

Technical Specification for Power cable

Minimum Technical Specification	Bidders Response <i>(Fully/Partially Compliance)</i>

Outdoor power cable 6mm with power coated	
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Technical Specification for Media converter

Minimum Technical Specification		Bidders Response (Fully/Partially Compliance)
Brand	Specified by the bidder	
Model	Specified by the bidder	
Interfaces	2* 10/100/1000Base-T RJ45 port (Data) 1*1000M uplink SC/LC fiber port (Data)	
Ethernet Port	10/100/1000Base-T,auto-sensing,Full/half duplex MDI/MDI-X self-adaption or better	
Transmission Distance	20km	
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T: Cat5e or later UTP(≤100 meter)	
Fiber Description	1.25Gbps, Single Fiber WDM SC interface; Support single-mode 9/125um	
Fiber Bandwidth	1.25G or higher	
Wavelength	1310/1550nm or better	
Network Bandwidth	1000MHz or better	
Ethernet Specifications	Bandwidth: 1.6Gbps (non-blocking) Network Latency (100 to 100M bps): the maximum delay less than 20 microseconds Packet Buffer Memory: 96KB Address Database Size: 1,000 MTBF: 100,000 hours	
Network Media	10base-T/100base-TX/1000Base-T/1000Base-L/ SX fiber media transmission	
Optical Cable/ Distance	dual mode: 1310nm / 0 ~ 40km, 1550nm 0 ~ 120km	
Fowarding Mode	Store and Forward(Full Wire Speed)	
Switching Capacity	2.0Gbps or higher	
Forwarding Rate@64byte	3.0Mpps or higher	
MAC	2K or higher	

Buffer Memory	1M or higher	
Jumbo Frame	1632byte or higher	
Lightning protection /protection level	Lightning protection: 4KV 8/20us, Protection level: IP30 or higher	
Safety	CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B; RoHS or higher	