

University of Kalyani



Centre for Information Resource Management

NOTICE INVITING QUOTATIONS

Ref. No. KU/CIRM/CCTV-Sys/2025

Date: September 11, 2025

Sealed quotations are invited from reputed vendors for Supply & Installation of CCTV Camera in the CIRM the specification (Annexure-I) of which is furnished below:

Sl. No.	Description of Items	Quantity	Remarks(if any)
01.	Bullet Camera	04 Nos.	Sealed Quotation be submitted to the CIRM, University of Kalyani,, Kalyani, Nadia 741235,West Bengal
02.	Dome Camera	04 Nos.	
03.	Single Fiber Media Converter SM (Pair)	01 Nos.	
04.	SC to SC OFC SM Single Fiber Patch Cord (1 Mtr.)	04 Nos.	
05.	08 Port Outdoor PoE Switch	01 No.	
06.	2U Network Rack	01 Nos.	
07.	600 VA UPS	01 No.	
08.	Cat-6 UTP Cables	01 Box.	
09.	Outdoor PoE Pass-through / PoE+ Extender	01 No.	
10.	Cable Laying ISI Mark PVC Casing and Installation with Supporting accessories	LUMSUM	

The above notice may be downloaded from University website www.klyuniv.ac.in.

Last Date of receiving quotations: 22nd September, 2025 up to 2 p.m.

Quotation must be made by the bidders in their official pad/letter head and be submitted to the following address:

Centre for Information Resource Management, Kalyani-741235, Nadia, West Bengal

Terms & Conditions:

- Bidders are requested to quote item- wise as far as possible putting rates of the items separately. Other Costs (if any) like taxes, duties, installation cost must be mentioned separately in the quotation. **Bidder must mention the make and model number of the item distinctly while quoting for any item. If possible, bidder must enclose relevant documents including brochure of the quoted item along with its technical specification with model and make. The manufacturer of the items must have National and International repute, having experience of selling similar items to Govt. or Govt. aided Educational Institutions and organizations. Further, the manufacturer must have satisfactory service centre base in Kolkata and its surrounding areas.**
- **Bidder must provide OEM Authorization Certificate for Camera**
 - **Bidder must provide OEM Bureau of Indian Standards (BIS) Certificate for compliance with ER 01:2024**
 - **Bidder must provide OEM Security Testing report for CCTV issued by Standardization Testing and Quality Certification (STQC) Laboratory notified by Meit**
- Bidders must submit valid documents as to Trade License, IT, GST, Manufacturing documents (if any) and credential documents for supplying similar type of items.
- In case of any dispute, University decision be taken as granted and all disputes are subject to Kolkata Jurisdiction only.
- Purchaser enjoys the right to select the vendor without assigning any reasons thereof to any bidder and lowest quotation does not ensure any guarantee for awarding purchase order.
- Purchaser may take decision for not buying any or all the items as stated hereinabove due to the fund constraint or for other issues.
- Purchaser also possesses the right to take decision on relaxation of any clause as stated above in case of need for selecting suitable and responsive vender without compromising the quality of the items as mentioned above.

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Annexure-I

Technical Specification of CCTV Camera and Accessories

A. Camera Specification:

Feature	Description
Image Sensor	1/2.8" 2MP Progressive scan CMOS (0.9071 centimeters)
Minimum Illumination	0.01Lux@F2.0
Effective Pixels	1920(H)x1080(V)
Body Type	Bullet / Dome
Shutter Speed	Auto/Manual, 1/3~1/100000s
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Lens	3.6mm fixed lens (2.8mm optional)
Max Aperture	F2.0
Gain Control (AGC)	Auto/Manual
Lens Type	Fixed
S/N Ratio	>56dB
DORI Distance	3.6mm– 49.7m (Detect) 19.9m (Observe) 9.9m (Recognize) 5m (Identify) 2.8mm– 38.6m (Detect) 15.4m (Observe) 7.7m (Recognize) 3.9m (Identify)
Video Compression	Instastream/ H.265/Smart H.264+/H.264/ H.264B/ MJPEG (only supported by the sub stream)
Angle of View	3.6 mm: Horizontal: 84°; Vertical: 45°; Diagonal: 100° 2.8 mm: Horizontal: 102°; Vertical: 54°; Diagonal: 120°
Back Light Comp.	BLC/ HLC/ DWDR
Frame Rate	Main Stream: 1920 × 1080 (1 fps–25/30 fps) Sub stream: 704 × 576 (1 fps–25 fps) 704 × 480 (1 fps–30 fps)
Resolution	2MP (1920 × 1080); 1.3MP (1280 × 960);720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640× 480); CIF (352 × 288/352 × 240)
Motion Detection	Off / On (4 area, Rectangle)
Privacy Mask	4 areas
ICR	Auto(ICR)/Color/B/W
ROI	Yes (4 areas)
Bit Rate	H.265: 12 Kbps–6144 Kbps H.264: 32 Kbps–6144 Kbps
Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; SMTP; FTP; DHCP; DNS; NTP; Multicast; ONVIF (Profile S/Profile T); CGI; P2P; Genetec
Ethernet	RJ-45 (10/100Base-T)
User Account	6 Users
Smart Phone	iPhone, iPad, Android Phone
IR Range	IR Range of 30 Mtr., Smart IR
Operating Temperature	-40°C to +60°C (-40°F to +140°F)/less than ≤ 95%
Power Source	DC12V, PoE (802.3af)

Power Consumption	1.4W (12V DC); 2.2W (PoE)
Weatherproof Standard	IP67
Interface Ports	1 HDMI, 1 VGA, 2 USB Ports(1 Rear USB2.0, 1 Front USB2.0)
Multi-channel Playback	Up to 8 channels
Ethernet	1 RJ-45 port (10/100Mbps)
Protocols	HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; DHCP; DNS; SMTP; IP Filter; DDNS; IP Search (Supports IP camera, DVR, NVS, etc.); Auto Registration, ONVIF 2.2(Profile T; Profile S; Profile G); CGI; SDK
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)
Operating Humidity	10%–93% (RH), non-condensing
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Power Supply	DC12V/4A

B. 8 Port Outdoor Waterproof PoE Switch Specification:

Feature	Description
PoE Standard	PoE (1~6) : 10/100/1000Mbps PoE ports (RJ45) PoE (7~8) : 10/100/1000Mbps PoE ports (RJ45), Support bt 60W High Power LAN (1~2): 10/100/1000Mbps uplink port (RJ45)
Network Standard	IEEE 802.3i 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000BASE-T IEEE 802.3x Flow Control IEEE 802.3af/at/bt Power over Ethernet
Transmission Rate	10/100Mbps auto-negotiate, 10/100/1000Mbps auto-negotiate
Transmission Distance	130 meter
Transmission mode	Support Half/Full duplex Mode
MAC Address Table	8K
Network Latency	(10 to 100Mbps): ≤16μs (use the 64byte package size)
Power Budget	120 watt
Power Input	AC 180~240V, Total ≤120W
PoE Watchdog	Port 1~8
Power Output	PoE 1~6 Port: 1/2(+52V), 3/6 (GND)≤30W PoE7~8 Port:1245(+53V),3678(GND) Compatible1/2(+52V),3/6(GND)≤60W
Lightning Protection	6KV, Per: IEC61000-4-5
ESD Protection	8KV, Per: IEC61000-4-2
Operating Temperature	-30°C ~60°C
DIP switch indicator	Green per PoE port, Green per uplink port
Power Consumption	Standby: ≤3W, whole: ≤96W
Certificate	IP65-rated plastic housing (weatherproof) FCC, CE, RoHS

C. Cat-6 UTP Cables Specification:

Feature	Description
Type	Category 6 Unshielded Twisted Pair 4 pair cable shall be compliant with ANSI/TIA/EIA-568-B.2-1 Additional Transmission Performance Specifications for 4-pair Category 6 Cabling. Category 6 UTP cables shall extend between the work area location and its associated telecommunications closet and consist of 4 pair, 23 AWG, UTP.
	Supports ultrahigh speed data networks such as Gigabit Ethernet (1000 Base-T and 1000 Base-TX) and beyond.
Jacket:	The cable jacket shall be LSZH and LSZH sheath should Complying to: a. Fire rating IEC 60332-1, b. Acid gas IEC 60754-2 c. Smoke density IEC 61034-2
	Incorporates central spine maintaining pair separation during installation to ensure premium performance after installation.
Mechanical Characteristics	Construction: 4 twisted pairs separated by internal X shaped, 4 channel, polymer spine / full separator. Half shall not be accepted. Conductor Solid Copper Conductor Diameter 0.56 ± 0.005 mm (23 AWG) Insulator Polyolefin Outer Diameter 6.0 ± 0.4 mm Max. Temperature 60°C
ROHS/ELV	Compliant
ETL Test Report @700 MHz	Cable should have test by ETL / Intertel @800
Certificate	FCC, CE, RoHS

D. Wall Mount Rack Specification:

2U Wall Mount Network Rack	Type: 2U Wall Mount Network Rack Cooling: Roof mounted fan housing units with exhaust axial type fans of 2U rack mounted fan trays with 2/4 fan capacity to take care of heat pockets at specific locations. These units can be mounted anywhere all along the height of the cabinet. Power Module : These are required to mount rack mount equipment's onto the cabinet
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E. 650VA UPS Specification:

650VA UPS with all accessories with 2 years warranty
650VA Line Interactive Micro Processor Controlled UPS
Input Volt. Range :140-300V (Full Load)
Nominal Input Freq: 50Hz
Output Volt. Range: 230V +/- 10 %(Batt. Mode)
Output Freq. Range :50Hz +/- 1%
Receptacle: 3 x Indian Socket
Internal Batt: 7AH X1
90% Batt. Recharge : 4-6Hrs.
Cold Start : Require
Operating Temp: 0-40°C
LED Indicator Require
Surge Protection : Inbuilt
ISO 9001, ISO14001,ISO45001 :2018,

F. Single Fiber Media Converter Specification

Feature	Description
Standards and Protocols	EEE 802.3, IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, IEEE 802.3z
Interface	<ul style="list-style-type: none">• 1× Gigabit SC/UPC Fiber Port• 1× 10/100/1000 Mbps RJ45 Port (Auto MDI/MDIX)
Wave Length	1550 nm TX, 1310 nm RX
Distance	Extends fiber distance up to 20 km
Power Supply	External Power Adapter: 9 V/0.6 A

G. OFC Patch Cord

Feature	Description
Connector Type	SC to SC
Compatible Devices	Media Converter or Switch
Connector Gender	Female-to-Female
Length	1 Meter

G. Outdoor PoE Passthrough Switch/PoE+ Extender

Feature	Description
Standards	IEEE 802.3 (10Base-T Ethernet) IEEE 802.3ab (Twisted Pair Gigabit Ethernet) IEEE 802.3af (Power over Ethernet 802.3at Type 1) IEEE 802.3at (Power over Ethernet 802.3at Type 2) IEEE 802.3bt (PoE++/4PPoE Power over Ethernet) IEEE 802.3u (100Base-TX Fast Ethernet) IEEE 802.3x (flow control, for full duplex mode)
Ports	Four 10/100/1000 Mbps RJ45 PoE+ PSE output ports One 10/100/1000 Mbps RJ45 uplink port that can also serve as a PoE+ PD input port One 10/100/1000 Mbps RJ45 uplink port
Media support	10Base-T Cat5e/6/6a/8.1 UTP/STP RJ45, 8 pin 100Base-TX Cat5e/6/6a/8.1 UTP/STP RJ45, 8 pin 1000Base-T Cat5e/6/6a/8.1 UTP/STP RJ45, 8 pin
Switch architecture	store and forward
MAC Address Table	2k
Forwarding rate	7.44 Mpps
Backplane speed/switch fabric	10 Gbps
PoE Input Voltage	50.0 - 57.0 V DC
PD input and PoE Power Budget	90.0 W (IEEE 802.3bt) input: 85 W total output 30.0 W (IEEE 802.3at) input: 25.0 W total output 15.4 W (IEEE 802.3af) input: 10.4 W total output
Operating Temperature	-40 - 80°C (-40 - 176°F)
Certificate	IP65-rated plastic housing (weatherproof) FCC, CE, RoHS

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