



राष्ट्रीय प्रौद्योगिकी संस्थान मणिपुर
NATIONAL INSTITUTE OF TECHNOLOGY MANIPUR

Imphal, Manipur, Ph.(0385) 2058566 / 2445812

E-mail : director@nitmanipur.ac.in , Website : www.nitmanipur.ac.in

An Autonomous Institute under Ministry of Education, Govt. of India.

No. NITM.1/(255-Estt)/Purchase/2022/R-147:

Imphal, the 19th January 2024

To,

.....
.....
.....
.....

Subject: Enquiry for supply of IP based CCTV camera for Girls Hostel, Langol.

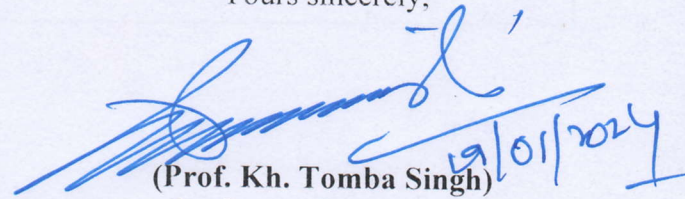
Sir,

Please provide sealed rate quotation for supply of IP based CCTV camera for Girls Hostel, Langol as per specification enclosed at **Annexure-I, II & III**.

Terms & Conditions:

1. Sealed rate quotation should reach to **The Registrar, NIT Manipur, Langol, Lamphelpat, Imphal, Manipur - 795004 on or before 3:00 p.m of 25/01/2024.**
2. The envelope should be superscribed as **"Quotation for supply of of IP based CCTV camera for Girls Hostel, Langol"**.
3. GST and all other applicable charges must be indicated separately.
4. The vendor must submit the technical brochure of the items providing detailed specification of the products.
5. Quotation will be opened on **26/01/2024 at 2:00 P.M.** in the Institute's Conference Hall before the representatives of the vendors who are present at the scheduled date and time.
6. Quotation received after the due date and time will not be accepted.
7. All bidding vendors may send their representatives to attend in the opening of the quotation.
8. Price must be F.O.R NIT Manipur, Langol, Imphal.

Yours sincerely,


(Prof. Kh. Tomba Singh)
Registrar, NIT Manipur
19/01/2024

Copy to:

1. P.S. to the Director (i/c) for kind info. of Director (i/c), NIT Manipur.
2. Technical Officer: for uploading in the website.
3. Notice Board.
4. CF/GF

Annexure-I**Rate quotation/technical specification for supply of IP based CCTV camera for Girls Hostel, Langol.**

Sl No	Description	Unit	Quantity	Rate (Rs)	Total (Rs)
1	5MP IP IR Dome Camera –As per Technical Specification as per Annexure "A"	Nos.	11		
2	NVR 32 Ch With 4 Sata Slot - As per Technical Specification as per Annexure "B"	Nos.	1		
3	6 TB HDD Wd / Segate	Nos.	2		
4	Stand for Indoor Cameras	Nos.	11		
5	16 port POE Switch for connecting the power to the cameras and communication of the cameras to the NVR	Nos.	2		
6	9 U Rack	Nos.	1		
7	CAT6 LAN Cable - Only Copper - (Approximate) - Billed will be as per actual usage	Mts	1 Box (305 mts)		
8	HDMI / VGA Cable	Rmt.	15		
9	PVC pipe, conduit & baton with accessories - (Approximate) - Billed will be as per actual usage	Mts.	100		
10	32" LED Screen Make : Samsung/ LG	Nos.	1		
11	UPS 1KVA UPS with backup approx. 1 hr	Nos.	1		
12	Testing and commissioning of all equipment for the system	Job work	11		
Total amount without GST					
GST(%) as applicable					
Grand total with GST					

- **Annexures II and III enclosed below:**

Signature of authorized person with seal

Annexure - II

Technical Specification of 5 MP IP IR Network Dome Camera : -	
Image Sensor	1/2.9" Progressive Scan CMOS
Min. Illumination	Color: 0.01 lux @(F1.2, AGC ON), 0 lux with IR
Shutter Speed	1/3 s to 1/100,000 s
Slow Shutter	Support
Lens Mount	M12
Lens	4mm, horizontal field of view: 78deg
Iris	F2.0
Day & Night	IR cut filter
DNR	3D DNR
Wide Dynamic Range	120dB
3-Axis Adjustment	Pan: 0°to 350°, tilt: 0°to 75°, rotate: 0°to 350°
Compression Standard	
Video Compression	Main stream: H.265/H.264
	Sub stream: H.265/H.264/MJPEG
	Third stream: H.265/H.264
H.264 Type	Main Profile/High Profile
H.264+	Support
H.265 Type	Main Profile
H.265+	Support
Video Bit Rate	32 Kbps to 16 Mbps
Audio Compression (-S)	G.711/G.722.1/G.726/MP2L2/PCM
Audio Bit Rate (-S)	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)
Image	
Max. Resolution	2944 × 1656
Main Stream	50Hz: 20 fps (2944 × 1656), 25 fps (2560 × 1440, 1920 × 1080, 1280 × 720)
	60Hz: 20 fps (2944 × 1656), 30fps (2560 × 1440, 1920 × 1080, 1280 × 720)
Sub Stream	50Hz: 25fps (640 × 480, 640 × 360, 320 × 240)
	60Hz: 30fps (640 × 480, 640 × 360, 320 × 240)
Third Stream	50Hz: 25fps (1280 × 720, 640 × 360, 352 × 288)
	60Hz: 30fps (1280 × 720, 640 × 360, 352 × 240)
Image Enhancement	BLC/3D DNR
Image Settings	Support rotate mode. Brightness, contrast, saturation, and sharpness are adjustable via web browser and client software
ROI (Region of Interest)	Support 1 fixed region for main stream and sub stream separately
Day/Night Switch	Auto/Scheduled/Alarm Triggered (-S)
Environment Noise Filtering	Support
Audio I/O	Support, mono soundtrack
Sampling Rate	8kHz/16kHz/32kHz/44.1kHz/48kHz
Network	
Network Storage	Support microSD/SDHC/SDXC card (128G) local storage, NAS (NFS,SMB/CIFS), ANR

Alarm Trigger	Motion Detection, Tampering Alarm, Network Disconnected, IP Address Conflict, Illegal Login,
	HDD full, HDD error
Protocols	TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP,
	SMTP, SNMP, IGMP, 802.1X, QoS, IPv6
Standard	ONVIF (PROFILE S, PROFILE G), ISAPI
General Function	One-key Reset, Anti-Flicker, Heartbeat, Mirror, Password Protection, Privacy Mask, Watermark,
	IP Address Filter
Interface	
Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port
Audio (-S)	1 audio input (line in), 1 audio output interface
Alarm (-S)	1 alarm input, 1 alarm output
On-board Storage	Built-in microSD/SDHC/SDXC slot, up to 128 GB
Smart Feature-set	
Behavior Analysis	Line crossing detection, intrusion detection, unattended baggage detection, object removal
	Detection
Line Crossing Detection	Cross a pre-defined virtual line, up to 1 pre-defined virtual lines supported
Intrusion Detection	Enter and loiter in a pre-defined virtual region, up to 1 pre-defined virtual regions supported
Object Removal Detection	Objects removed from the pre-defined region, such as the exhibits on display.
Unattended Baggage Detection	Objects left over in the pre-defined region such as the baggage, purse, dangerous materials
Face Detection	Human face appears in the image can be detected and trigger linkage method
General	
Operating Conditions	-30 °C to +60 °C (-22 °F to +140 °F), Humidity 95% or less (non-condensing)
Power Supply	12 VDC ± 25%, 6.2 W
	PoE(802.3af, class 3), 9 W
IR Range	Up to 30 m
Protection Level	IP67, IK10

A. Technical Specification of NVR 32 Ch With 8 SATA Slot :		
Video/Audio input	IP video input	32-ch Up to 12 MP resolution
	Two-way audio	1-ch, RCA (2.0 Vp-p, 1 k Ω)
Network	Incoming bandwidth	320 Mbps or 200 Mbps (when RAID is enabled)
	Outgoing bandwidth	256 Mbps, or 200 Mbps (when RAID is enabled)
	Remote connection	128
Video/Audio output	Recording resolution	12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF
	CVBS output (Optional)	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 \times 576, NTSC: 704 \times 480
	VGA1 /HDMI1 output resolution	HDMI1: 4K (3840 \times 2160)/60Hz, 4K (3840 \times 2160)/30Hz, 2K(2560 \times 1440)/60Hz, 1920 \times 1080p/60Hz, 1600 \times 1200/60Hz, 1280 \times 1024/60Hz, 1280 \times 720/60Hz, 1024 \times 768/60Hz VGA1: 2K (2560 \times 1440)/60Hz, 1920 \times 1080p/60Hz, 1600 \times 1200/60Hz, 1280 \times 1024/60Hz, 1280 \times 720/60Hz, 1024 \times 768/60Hz
	VGA2 /HDMI2 output resolution	1920 \times 1080p/60Hz, 1280 \times 1024/60Hz, 1280 \times 720/60Hz, 1024 \times 768/60Hz
	Audio output	2-ch, RCA (2.0Vp-p, 1 K Ω)
	Decoding	Decoding format
Live view/Playback resolution		1024 p
Synchronous playback		16-ch
Capability		4-ch @ 4K, or 16-ch @ 1080p
Network management	Network protocols	TCP/IP, DHCP, HIK Cloud P2P, DNS, DDNS, NTP, SADP,SMTP, NFS, iSCSI, UPnP™, HTTPS
Hard disk	SATA	4 SATA interfaces for 4HDDs
	eSATA	1 eSATA interface
	Capacity	Up to 6TB capacity for each HDD
Externalinterface	Network interface	2, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
	Serial interface	RS-232; RS-485; Keyboard
	USB interface	Front panel: 2 \times USB 2.0; Rear panel: 1 \times USB 3.0
	Alarm in/out	16/4
General	Power supply	100 to 240 VAC, 50 to 60 Hz
	Max. Power	200 W
	Consumption (without HDD)	\leq 30 W
	Working temperature	-10 to +55 $^{\circ}$ C (+14 to +131 $^{\circ}$ F)
	Working humidity	10% to 90%
	Chassis	19-inch rack-mounted 2U chassis