



UNIVERSITY OF GOUR BANGA

[Established under the West Bengal Act. XXVI of 2007 and Recognized U/S 2(f) & 12(B) of the UGC Act]

Office of the Registrar

★ Phone: 03512-223664 ★ URL: www.ugb.ac.in

P.O.: Mokdumpur, Dist.: Malda, Pin – 732 103, West Bengal, India

Ref. No.: 536/UGB/DR-24

Date: 03.12.2024

NOTICE INVITING QUOTATION

e-NIQ No.: 536/UGB/DR-24, Dated: 03.12.2024

Name of the Work: ‘Supply and Installation of CCTV at the University of Gour Banga, Malda, West Bengal, India’

The University of Gour Banga, P.O. – Mokdumpur, District – Malda, West Bengal, Pin – 732103 invites E-Quotations (Submission of Bid through online) from the reputed vendor(s)/supplier(s)/distributor(s)/dealer(s) and OEM authorized dealers having valid Trade License/Registration Certificate of incorporation/ Deed of partnership etc. for the “Supply and Installation of CCTV” at the University of Gour Banga. Interested bidders may obtain bidding documents by registering themselves to the e-tendering portal(Submission of Bid must be made online only (<http://www.wbtenders.gov.in>) . The details of the equipment to be supplied and installed are given in the table below.

Sl. No.-	Description of Items	Make	Qty	Unit	Quoted Unit Rate (Rs.)	Quoted Amount (Rs.)
1	SITC of IP 4 Megapixel IR Bullet Camera	Panasonic	58	Nos		
2	SITC of IP 4 Megapixel IR Dome Camera	Panasonic	70	Nos.		
3	Supply, Installation, Testing, Commissioning of 64 Channel Network Video Recorder (NVR)	Panasonic	3	Nos.		
4	SITC of Hard Disk .Spec: Surveillance Grade HDD of minimum 7200 rpm for video storage 8TB storage capacity	SEAGATE/ WESTERN DIGITAL/ HITACHI	9	Nos.		
5	SITC of 43" LED FULL HD Display . Spec: Display Size-43", Panel Technology: IPS, Resolution: 1920X1080, brightness: minimum 700cd/m2, Interface : HDMI(2), DVI, DP, RGB, RJ45, IR, RS232C, USB, Response Time:12 ms (G to G BW),9.4 ms (WOT), Surface Treatment-Hard Coating, Anti-glare Treatment of the Front Polarizer , Dust/Humidity Protection-Conformal coating, Built-in Wi-Fi, web OS, Internal Memory, confirming 24 hrs operating, Integrated CMS, Screen Mirroring, Certification- UL / cUL / CB / TUV / KC, FCC / CE / KCC, Energy Star 6.0, Power Supply: 100-240 V~, 50/60 Hz, Typical power consumption- 75watt	LG/ SAMSUNG/ SONY/ PANASONIC	4	Nos.		
6	SITC of Networking Horizontal Cable, 1000Base-T (Gigabit Ethernet), 100Base-T (Fast Ethernet), 10Base- T (Ethernet), 1-250 MHz (Minimum), Category 6 , 4-Pair, U/UTP, 23 AWG solid bare copper conductors with FEP insulation, polyester separator, LSZH OUTER sheath COVER as to standard of ISO/IEC 11801Ed. 2.0, EN 50173-1 and TIA/EIA 568C.	D-Link	6000	Mtr.		

Sl. No.-	Description of Items	Make	Qty	Unit	Quoted Unit Rate (Rs.)	Quoted Amount (Rs.)
7	SITC of PATCH CHORD Category 6 4-Pair, F/UTP, Horizontal cable, 23 AWG solid bare copper conductors WITH RJ45 CONNECTOR AT BOTH END 1 MTR LENGTH	D-Link	200	Nos.		
8	SITC of PATCH CHORD Category 6 4-Pair, F/UTP, Horizontal cable, 23 AWG solid bare copper conductors WITH RJ45 CONNECTOR AT BOTH END 2 MTR LENGTH	D-Link	80	Nos.		
9	SITC of PATCH CHORD Category 6 4-Pair, F/UTP 23 AWG solid bare copper conductors WITH RJ45 CONNECTOR AT BOTH END 10 MTR LENGTH	D-Link	3	Nos.		
10	SITC of I/O port adapter RJ45 with GI box and face cover plate etc	D-Link	140	Nos.		
11	SITC of End termination of different types of Cat cables in connector RJ 45 or GG 45	D-Link	20	Nos.		
	SITC OF OPTICAL FIBRE CABLE AS TO STANDARDS SUCH AS ITU-T, IEC 60793 & 60794, EIA/TIA, EN187000, RUS1755.900, Telecordia GR-20 etc					
12	SITC of Single Mode, Corrugated Steel Tape Armored, 6 Fiber, 9/125 Micron, OS2			mtr		
13	SITC of 10GB Duplex Multimode 50/125 OM3 LSZH Fiber Patch Cable, - 25 MTR		0	Nos.		
14	SITC of 10Gb Duplex Multimode 50/125 OM3 LSZH Fiber Patch Cable, - 20 MTR		1	Nos.		
15	SITC of 10Gb Duplex Multimode 50/125 OM3 LSZH Fiber Patch Cable, - 15 MTR		0	Nos.		
16	SITC of 10GB Duplex Multimode 62.5/125 OM1 LSZH Fiber Patch Cable, - 10 MTR		0	Nos.		
17	SITC of 1Gb Duplex Multimode 62.5/125 OM1 LSZH Fiber Patch Cable, - 5 MTR		2	Nos.		
18	SITC of 1Gb Duplex Multimode 62.5/125 OM1 LSZH Fiber Patch Cable, - 3 MTR		0	Nos.		
19	SITC of 1Gb Duplex Multimode 62.5/125 OM1 LSZH Fiber Patch Cable, - 2 MTR		0	Nos.		
20	SITC of HDMI Cable - 3 Mtr (With Socket)		2	Nos.		
21	SITC of HDMI Cable - 10 Mtr (With Socket)		4	Nos.		
22	SITC of 1 Gigabit SFP+ Small Form Pluggable 1310nm wavelength long reach multimode (LC) [220m / 722 ft. with OM1, OM2, OM3 MMF] with DOM (DMI) - Digital Optical Monitoring, Safety Norms according to EN 60950-1:2006+A11+A12+A2, IEC-60825 FDA/CDRH standards		3	Nos.		
23	SITC of OFC junction box.		6	Nos.		

Sl. No.-	Description of Items	Make	Qty	Unit	Quoted Unit Rate (Rs.)	Quoted Amount (Rs.)
24	SITC of SS Joint box (200mm X 200mm X 65mm) with SS top cover.		8	Nos.		
25	SITC of WALL mounted Cross Connect Equipments 12U x 500 x 500 Rack - Front Glass Door with Cam Lock - Fan Unit of 90CFM / 230 Volt - 1no - 6 Way 5A PDU, along with input Cable - 1no . Hardware packet of 20-3 Nos.		7	Nos.		
26	SITC of Floor Mounted Cross Connect Equipments 42U x 1000 x 500 Rack - Front Glass Door with Cam Lock - Fan Unit of 360CFM(Min) / 230 Volt - 4no - 6 Way 5A PDU, along with input Cable - 2no - H/w Packet of 20 - 8nos - 1U PVC Cable Manager - 6nos		1	Nos.		
27	SITC of 40mm dia HDPE Pipe and Accessories over open surface as per site condition		2500	Mtr.		
28	SITC of Desk type Computer with built in configuration of OEM having minimum specification of major items such as - Processor: Core i5 7th Gen 3 GHz RAM 8GB DDR4 HDD 1TB 7200RPM SATA Display : 15inch LED display Operating System : Windows 10 On site Warranty - 3 (Three Years)	HP/LENOVO/D EL/ HCL	1	Nos.		
29	SITC of stackable, Layer 3 , PoE enabled, fully managed, 1RU, GE Switch to be operated on 200-240VAC, 50 Hz Supply, with one year software renewable license of OEM, having minimum technical specification :					
	a) 24 x 10/100/1000 Mbps PoE enabled host ports (Minimum).b) 4 x 1GE or 2 x 10 GE SFP port including modular and field replaceable SFP module of same ratingc) 320 Gbps stacking bandwidth/ backplane speed (Minimum).d) Redundant, hot-swappable dual internal power suppliese) 2 field replaceable Fans (Minimum).f) 4GB DRAM and 2GB Flash RAM (Minimum).g) Operating temperature – upto 45°C.h) Software support with IPv4 routing (24,000 routes) and IPv6 routing, multicast routing (IGMP v1,v2,v3) including necessary software license, L2 & L3 QoS) 2x 10GE Uplink Modulej) Minimum switching capacity of 92Gbpsk) Number of VLAN Supported: 4000 (Minimum).l) Total number of MAC Address: 32,000 (Minimum).m) Minimum Security features e.g. Dynamic Host Configuration Protocol (DHCP) Snooping and Guard, Dynamic ARP Inspection, IP Source Guard, Wireless Intrusion Prevention Systems, MAC limiting (per port and per VLAN), IGMP filtering, Control Plane Protection (CoPP), IPv6 RA Guard, IPv6 neighbour discovery, Multi-domain authentication etc.n) Applicable standards : IEEE 802.1p: CoS prioritization , IEEE 802.1Q: VLAN tagging, IEEE 802.1X: Port Access Control, IEEE 802.3: 10BASE-T, IEEE 802.3u: 100BASE-T, IEEE 802.3ab: 1000BASE-T, IEEE 802.3z: 1000BASE-X, IEEE 802.3af: Power over Ethernet, IEEE 802.3at: Power over Ethernet Plus, IEEE 802.3x: Pause Frames/Flow Control, IEEE 802.1D: Spanning Tree Protocol, IEEE 802.1s: Multiple instances of Spanning Tree Protocol (MSTP), IEEE 802.1w: Rapid reconfiguration of Spanning Tree Protocol, IEEE 802.3ad: Link Aggregation Control Protocol	Tec routes	1	Nos.		
30	SITC of Layer 2, PoE enabled, fully managed, 1RU, GE Switch to be operated on 200-240VAC, 50 Hz Supply, with one year software renewable license of OEM, having minimum technical specification :					

Sl. No.-	Description of Items	Make	Qty	Unit	Quoted Unit Rate (Rs.)	Quoted Amount (Rs.)
	a) 24 x 10/100/1000 Mbps PoE enabled host ports (Minimum). b) 2 x 1GE SFP port including modular and field replaceable SFP module of same rating c) Fanless operation with operating temperature up to 45°C . d) 512MB DRAM and 256MB Flash RAM e) Software support with IPv4 routing (542 routes), multicast routing (IGMP) including necessary software license f) Minimum switching capacity of 56Gbps g) Number of VLAN Supported: 64 (Minimum). h) Total number of MAC Address: 8,000 (Minimum). i) Minimum Security features e.g. Dynamic Host Configuration Protocol (DHCP) Snooping, Dynamic ARP Inspection, Intrusion Detection Systems, IGMP filtering, Multi-domain authentication, Access control lists (ACLs) for IPv6 and IPv4 security and Quality-of-Service (QoS) ACL elements, SNMP,MAC address notification, Spanning-Tree Root Guard (STRG), IGMP filtering etc. Applicable standards : IEEE 802.1p: CoS prioritization , IEEE 802.1Q: VLAN tagging, IEEE 802.1X: Port Access Control, IEEE 802.3: 10BASE-T, IEEE 802.3u: 100BASE-T,IEEE 802.3ab: 1000BASE-T, IEEE 802.3z: 1000BASE-X, IEEE 802.3x: Pause Frames/Flow Control, IEEE 802.1D: Spanning Tree Protocol, IEEE 802.1s: Multiple instances of Spanning Tree Protocol (MSTP), IEEE 802.1w: Rapid reconfiguration of Spanning Tree Protocol, IEEE 802.3ad: Link Aggregation Control Protocol, 802.3af: Power over Ethernet, IEEE 802.3at: Power over Ethernet Plus	Tec routes	8	Nos.		
31	SITC of Network Attached Storage (NAS) box within the capacity of 16 nos. 8 TB Hard Disc.	Synology	1	Nos.		
32	SITC of CAT 6 F/UTP 24 Port Modular fully loaded patch Panel TIA/EIA-568-C.2:2009 EN 50173-1:2011 Class E, ISO/IEC11801:2010 (Ed 2.2) Class E, FCC Subpart F68.5 UL Listed.	D-Link	7	Nos.		
UPS ITEMS						
10 KVA Online UPS (3ph/1ph) with Battery Bank						
33	Supply and Fixing of Digital Signal Processing (DSP) controlled Microprocessor based technology true On-line UPS having configuration as stated below.					
	10kVA Online UPS (3 Phase/1Ph) with Isolation Transformer Model : Premius RT Rack + Interlinks + Cable 12V-65Ah x 24 Numbers Batteries					
	Ø Battery Quantity:- 20 Nos.					
	Ø Backup Time – 1 Hr.(60Min) of full load.					
	(Battery Make : Exide/ Equally Reputed)					
	(UPS Make- NUMERIC)		2	Nos.		
34	Supply & Fixing 240 V, 16 A, 3 pin Modular type plug socket (Brand approved by EIC) with 16A Modular type switch, without plug top on 4 Module GI Modular type switch board with top cover plate flushed in wall incl. S&F switch board and cover plate and making necy. connections with PVC Cu wire and earth continuity wire etc.		20	Each		
35	Supplying & Fixing CRC sheet metal (16 SWG) JB-cum- Switch Board of the following sizes complete with three no. suitable size Copper bar with holes (for Ph, N & E) fixed on bakelite/Hard Rubber insulator over the MS welded chairs incl. bakelite/Perspex/coloured Perspex (wall matching colour) top cover 3 mm thick flushed in wall for housing the board after cutting the brick wall incl. making earthing attachment, painting and mending good damages to building works		64	Each		
	150 mm x 100 mm x 65 mm					
36	Supplying & fixing medium gauge GI Pipe (ISI-Medium) Protection with necessary fittings and jointing metarials as required (ISI-M)					
	d) 50 mm dia		6	RM		

Sl. No.-	Description of Items	Make	Qty	Unit	Quoted Unit Rate (Rs.)	Quoted Amount (Rs.)
37	Supplying and fixing 240/415 V MCB of Breaking capacity 10kA & C characteristics on din rail of existing DBs and necessary connection					
	Legrand					
	6-32 A (SP MCB)		30	Each		
	6-32 A (DP MCB)		5	Each		
	32 A (TP MCB)		4	Each		
	32 A (FP MCB)		2	Each		
38	Supplying and fixing double-door SPN MCB Distribution Board with IP-42/43 protection, concealed in wall after cutting the wall & mending good the damages to original finish incl. Inter connection with suitable size of copper wire and neutral link & provision for earthing attachment					
	Legrand					
	2+8 way (Enclosure (607711))		3	Each		
39	Supplying and fixing PVC Rigid Conduit 'FR' [Precision Make] on wall, ceiling with saddles and other accessories as required and mending good damages to building works					
	a) 20mm size		5000	RM		
40	Supplying and fixing double door Vertical TPN MCB Distribution board for MCCB incomer with IP-42/43 protection, on angle iron frame on wall & mending good the damages to original finish incl. Inter connection with suitable size of copper wire and neutral link & provision for earthing attachment					
	Legrand, 4 way (Enclosure 607913))		1	No.		
41	Supplying and fixing double door Horizontal TPN MCB Distribution board with IP-42/43 protection, concealed in wall after cutting the wall & mending good the damages to original finish incl. Inter connection with suitable size of copper wire and neutral link & provision for earthing attachment					
	Legrand, 4 way, Enclosure (607715)		2	Nos.		
42	Supplying, Installation, Testing, Commissioning with transportation & delivery at site of GI Earthing Spike 1.5 mtr. With necessary earthing attachment.	ISI Marked	6	Nos.		
43	Supplying & Laying including transportation and delivery at site of PVCA/ XLPE cable of 1.1KV grade 3 core 2.5 sqmm Aluminium Armoured LT Round Cable. (Make- Polycab/ Havells/ Finolex/ Gloster/ Rajnigandha or Eqv (PWD & ISI Approved).		1200	RM		
44	Supplying & Installation of inverter type 220 V, 02 Ton 3 star split type Air conditioner machine (equivalent to specification of Carrier model no.- CAI24DH3R32F0) including upto 10 feet copper pipes (02 nos.) Gas, & timer system for alternate operation of 24 x 7 hr. at Central CCTV room. (Make- Carrier/ Blue star/ Hitachi)	Carrier/ Bluestar/ Hitachi	2	Nos.		

Price shall be quoted in Indian Rupees (INR) inclusive of all taxes, installation & Delivery Charges

4 MP Bullet	<p>SITC of IP 4 Megapixel IR Bullet Camera with Motorized Varifocal lens having minimum technical specification: Image Sensor: 1/3", 4.0 Megapixel, Progressive Scan, CMOS; Min. Illumination: Color: Color: 0.003Lux (F1.6, AGC ON) 0Lux with IR on; Shutter Time: 1s to 1/100,000 s; Day & Night: IR-cut filter with auto switch (ICR); IR Range: Up to 50m (164ft) IR range; WDR: 120dB; Lens: 2.8 ~ 12mm, AF Automatic Focusing and Motorized Zoom Lens, Built-in Mic, Angle of View: H: 102°~ 30°, V: 54°~ 17°, O: 106°~35°; Angle Adjustment: Pan: 0° ~ 360°, Tilt: 0° ~ 90°, Rotate: 0° ~ 360°; Video Compression: H.265, H.264, MJPEG; Video Bit Rate: 128 Kbps~16 Mbps; Two Stream; Analytics: Cross line, Intrusion (based on Human Body Detection) Motion Detection, Tampering Alarm, Audio detection; Max. Image Resolution: 2688 x 1520; Frame Rate: 25fps (2688 x 1520); ROI Codec: Up to 8 Areas; Image Setting: White Balance, Digital Noise Reduction, Smart IR, Flip, HLC, BLC, Defog; Protocols: IPv4, IPv6, IGMP, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, SSL/TLS, QoS, SNMP; Communication Interface: 10/100M Base-TX Ethernet; Edge Storage: Micro SD, up to 256GB; Audio Compression: G.711, Safety: CE,UL,FCC, NDAA; ONFIV Profile: G, S, T; Operating Conditions: Temperature: -30°C ~ 60°C (-22°F ~ 140°F), Humidity: ≤95% RH (non-condensing); Power Consumption: Max 8.5W; Power Supply: DC 12V±25%, PoE (IEEE 802.3af); Weather Proof Rating: IP67; (Warranty Period up to 3 Years)</p>
4 MP Dome	<p>SITC of IP 4 Megapixel IR Dome Camera with Motorized Varifocal lens having minimum technical specification: Image Sensor: 1/3", 4.0 Megapixel, Progressive Scan, CMOS; Min. Illumination: Color: Color: 0.003Lux (F1.6, AGC ON) 0Lux with IR on; Shutter Time: 1 s to 1/100,000 s; Day & Night: IR-cut filter with auto switch (ICR); IR Range: Up to 40m (131ft) IR range; WDR: 120dB; Lens: 2.8 ~ 12mm, AF Automatic Focusing and Motorized Zoom Lens, Built-in Mic, Angle of View: H: 102°~ 30°, V: 54°~17°, O: 106°~35°; Angle Adjustment: Pan: 3° ~ 360°, Tilt: 0° ~ 70°, Rotate: 3° ~ 360°; Video Compression: H.265, H.264, MJPEG; Video Bit Rate: 128 Kbps~16 Mbps; Two Stream; Analytics: Cross line, Intrusion (based on Human Body Detection) Motion Detection, Tampering Alarm, Audio detection; Max. Image Resolution: 2688 x 1520; Frame Rate: 25fps (2688 x 1520); ROI Codec: Up to 8 Areas; Image Setting: White Balance, Digital Noise Reduction, Smart IR, Flip, HLC, BLC, Defog; Protocols: vIPv4, IPv6, IGMP, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, SSL/TLS, QoS, SNMP; Communication Interface: 10/100M Base-TX Ethernet; Edge Storage: Micro SD, up to 256GB; Audio Compression: G.711, Safety: CE, UL, FCC, NDAA; ONFIV Profile: G, S, T; Operating Conditions: Temperature: -30°C ~ 60°C (-22°F ~ 140°F), Humidity: ≤95% RH (non-condensing); Power Consumption: Max 7.5W; Power Supply: DC 12V±25%, PoE (IEEE 802.3af); Weather Proof Rating: IP67; Vandal Registrant: IK10; (Warranty Period up to 3 Years)</p>
64 Ch NVR	<p>Supply, Installation, Testing, Commissioning of 64 Channel Network Video Recorder (NVR) Capable to view Live and Recorded Video connected to Local or Wide Area Network, Supports live view, storage, and playback at up to 12 MP resolution, 16 Ch Synchronised Playback, Incoming throughput 384Mbps or better, Outgoing throughput 384Mbps or better, Video Compression: H.265 & H.264, HDMI Video output up to 4K, 16 Input/ 10 Output alarm as minimum, 8 SATA interface for Supporting upto 128TB HDD, NDAA, ONVIF Profile (S,G,T), Support RAID 0,1,5,6,10, Support N+1, with 2 LAN Interface and BIS, 90% RH, 100 to 240 VAC, etc complete as reqd. (Warranty Period up to 3 Years)</p>

Technical Specifications for L3 Switch:

Backplane	256 Gbps	256 Gbps	256 Gbps	256 Gbps
Forwarding	168 Mpps	168 Mpps	192 Mpps	192 Mpps
MAC table	32K/64K	32K/64K	32K/64K	32K/64K
Ports	32 Gigabit TX ports +8 10G SFP ports	24 Gigabit SFP ports+8 Gigabit TX ports+8 10G SFP ports	48 Gigabit TX ports +8 10G SFP ports	44 Gigabit SFP ports +4 Gigabit Combo (TX/SFP) Ports +8 10G SFP

				ports
Dimensions mm (W×D×H)	442*330*44	442*350*44	442.5*315*44	442*350*44
Power	AC: 100V-240V, 50Hz±10% DC: -36V~-72V Dual-power is optional	AC: 100V-240V, 50Hz±10% DC: -36V~-72V Dual-power is optional	AC: 100V-240V, 50Hz±10% DC: -36V~-72V Dual-power is optional	AC: 100V-240V, 50Hz±10% DC: -36V~-72V Dual-power is optional
Environment	Operating temperature/humidity: 0°C-50°C; 10%-90% non-condensing Storage temperature/humidity: -20°C-70°C; 5%-95% non-condensing			
MAC Exchange	Static configuration and dynamic MAC learning MAC browsing and removal Configurable aging time of the MAC address Limited number of learnable MAC addresses MAC filtration Black-hole MAC list			
VLAN	4K VLAN GVRP 1:1 VLAN mapping and N:1 VLAN mapping QinQ and flexible QinQ PVLAN			
STP	802.1D (STP), 802.1W (RSTP) and 802.1S (MSTP) BPDU protection, root protection, and loopback protection			
Multicast	IGMP v1/v2/v3 IGMP Snooping IGMP Fast Leave Multicast group strategy and quantity limitation Multicast flow copying over VLANs PIM-SM and PIM-DM			
IPv4	Static routing, RIP v1/v2, OSPF, BGP Policy based routing Load balance by equivalent routing BFD for OSPF, BGP			
IPv6	ICMPv6, DHCPv6, ACLv6 and IPv6 Telnet IPv6 neighbor discovery Path MTU discovery MLD V1/V2 IGMP snooping IPv6 Static Routing, RIPng, OSPFv3, BGP4+ Manual tunnel, ISATAP tunnel, 6to4 tunnel			
MCE	MCE			
MPLS VPN	LDP protocol P/PE of MPLS VPN MPLS OAM			
QoS	Flow classification based on L2~4 protocols CAR flow limit 802.1P/DSCP priority re-labeling SP, WRR, and “SP+WRR” Congestion avoidance mechanisms like Tail-Drop and WRED Flow monitoring and flow shaping			
Security features	L2/L3/L4 ACL flow identification and filtration DDoS attack prevention, TCP’s SYN Flood attack prevention, UDP Flood attack prevention, etc Broadcast/multicast/unknown unicast storm-control Port isolation Port security, and “IP+MAC+port” binding DHCP snooping and DHCP option 82 IEEE 802.1x authentication Radius, Tacacs+ authentication URPF Level-based command line protection			

Reliability	1+1 power backup Static/LACP link aggregation EAPS VRRP GR for OSPF,BGP BFD for OSPF,BGP ISSU uninterrupted system upgrade
Management	Console, Telnet, SSH 2.0, Web SNMP v1/v2/v3 TFTP RMON sFLOW
Energy saving	IEEE 802.3az
SFP Modular	Techroutes SFP Modular

Technical Specifications For L2 Switch

Ports	24x10/100/1000Base-T+4x100/1000Base-X(SFP)	
Performance		
Switching Capacity	56Gbps	
Forwarding Rate	41.7Mpps	
MACADDRESS	16K	
Jumbo Frame	12K	
ACL Table	2048	
Queues perport	8	
VLANTABLE	4K	
Physical		
Dimension(W×H×D)	442mmx43.6mmx220mm	
Weight	2.42kg	
Power Input	100~240VAC,50~60Hz	
Power Consumption	20w	
Temperature	Working0°C~50°C,Storage-40°C~70°C	
Relative Humidity	5%~95%,non-condensing	
Physical Protection	LightningProtectionLevel:4KV	
Main Features		
Forwarding	Storage and Forwarding	
VLAN	Port-basedVLAN,IEEE802.1Q,privateVLAN,ProtocolVLAN,VoiceVLAN,MACVLAN Normal QinQ, Selective QinQ, Flexible QinQ VLAN Translation, N:1V LAN Translation	
DHCP	IPv4/IPv6 DHCP Client, IPv4/IPv6 DHCP Relay Option82, IPv4/IPv6 DHCP Snooping, IPv4/ IPv6 DHCP Server	
Reliability	Spanning Tree	802.1DSTP,802.1WRSTP,802.1SMSTP Root Guard, BPDU Guard, BPDU Forwarding
	LACP	Support
	L2RingProtection	MRPP ITU-TG.8032 Loop back Detection Fast Link

Security	IPACL, MACACL, MAC-IPACL, User-Defined ACL Time Range ACL AC Lon VLAN interface Storm Control based on packet sand bytes
Item	TR-S2528D
	PortSecurity,MACLimitbasedonVLANandPortAnti-ARP-Spoofing,Anti-ARP-Scan,ARPBindingNDSnooping DAI IEEE802.1x Authentication, Authorization, Accounting Radius, TACACS+
Multicast	IGMPv1/v2/v3snooping,IGMPFastleave MVR MLDv1/v2snooping IPv4/IPv6DCSCM
QoS	8QueuesPerPort Band width Control Flow Redirect Classification based on ACL, VLANID, COS, TOS, DSCP, Policing Based on Port and VLAN Single Rate single barrel double color for Policing Remark DSCP, COS/802.1p, Precedence, TOSSP, WRR, SWRR, DWRR for Scheduling Match the IP fragmentation of message
Maintenance and Operation Management	TFTP/FTP CLI, Telnet, Console Web/SSL(IPv4/IPv6) SSH(IPv4/IPv6) SNMPv1/v2c/v3 SNMPTrap Public & Private MIBinter face RMON1,2,3,9 Ping, Trace Route Radius Authentication Syslog (IPv4/IPv6) SNTP/NTP(IPv4/IPv6) DualIMG,MultipleConfigurationFilesPortMirror,C PUMirror,RSPANsFlow OAMEFM VCT,DDM ULDP LLDP/LLDPMED
Green Energy	IEEE802.3az(Energy Efficient Ethernet) LED Shut-off

Project feasibility compliance report must be submitted by the firm after doing the site survey and getting proper knowledge of all the physical and infrastructural resources available in the project site. The firm should submit the report as "**Annexure-I**" along with the bid.

"Annexure-I"
(Document to be submitted in Company letter Head Only)

Site Survey Report for Supply and Installation of CCTV at the University of Gour Banga, Malda, West Bengal, India

To
The Convener,
Tender & Purchase Committee
University of Gour Banga, Malda – 732103

Sub: Project feasibility study and Compliance Report after visit the site at University of Gour Banga, Malda, West Bengal, for the tender notice & Reference Number: Ref. No.: 536/UGB/DR-24 dated: 03.12.2024 for **Supply and Installation of CCTV at the University of Gour Banga, Malda, West Bengal, India**

Dear Sir,

This is to inform you that we have visited the project site on dated and we confirm that all the physical and infrastructural resources which are available in the project site are compiled for this project.

We confirm that all the tools and technical recourses which are required to complete the projects should be provides by the firm itself with its own expenses.

Name of the firm:

Authorized Signatory
University of Gour Banga, Malda, West Bengal,
India

Name of the Representative:

Mobile No:
Email-Id:

Signature and stamp & Date

Date:

Signature and stamp:

Copy to: The Registrar (Addl. Charge), University of Gour Banga, Malda.

Date & Time Schedule:

Sl. No.	Particulars	DateandTime
1	Date of uploading of NIT Tender Documents (online)	03.12.2024
2	Tender Document sale /download start date and time (online).	03.12.2024
3	Start Date of Bid Submission (Technical and Financial) (online).	03.12.2024
4	Closing date and time of sale/download of Tender Document (online).	24.12.2024
5	Closing date of Bid submission (Technical and Financial) (online).	24.12.2024
6	Date and time of opening of Technical Proposals (online).	26.12.2024
7	Date and time of submitting sample of paper in Sealed envelope with mentioning full details of every bidder. (Submission of sample is the prime factor of consideration during technical scrutiny.)	24.12.2024
8	Date and time of uploading of list of Technical qualified bidders (online).	To be notified later on.
9	Date and time of opening of Financial Proposals (online).	To be notified later on.

NOTE: Any complain / grievance will have to submit in writing only before the date & time of opening of tender / tenders. No complain / grievance will be entertained after opening of this / these tenders.

TERMS & CONDITIONS:

1. Intending bidders have to download the tender document from the website directly by the help of Digital Signature Certificate & cost of tender document, if any, may be remitted through Demand Draft only issued from any nationalized bank in favour of University of Gour Banga, payable at Malda & same may be documented along with earnest money through e-Filing. No interest shall be paid on EMD.
2. During Online submission of Bid only scan copy of EMD (Earnest Money Deposit) should be submitted. Only successful L1 Bidder will have to submit the EMD in original (same as submitted during online bidding) to the office of the Deputy Registrar and Convener, Tender and Purchase Committee, University of Gour Banga, Malda. However, the University will not be held responsible for late delivery or loss of the DD so mailed through post/courier. Technical Bid and Financial Bid both will be submitted concurrently duly digitally signed in the Website <https://etender.wb.nic.in> Tender documents may be downloaded from website & submission of Technical Bid/Financial Bid as per Tender time schedule stated in (Date & Time Schedule).
3. EMD – A sum of Rs. 3,00,000/- (Rupees Three Lakh Only) in the form of CTS Demand Draft from any Nationalized Bank in favour of ‘University of Gour Banga’ payable at ‘Malda’ is to be attached/uploaded with the tender documents as earnest money deposit, failing which the tender/quotation will be treated as cancelled. MSMEs registered in West Bengal are exempted from submission of EMD as per Finance Department, GoWB Notification 10500-F dated 19/11/2004, but their selection would be subject to the provisions of Notification No. 6142-F(Y) dated 10/10/2017 of the Finance Department, Government of West Bengal.
4. The tender is liable to be rejected if OEM Authorization is not given there-in, or if the particulars and data (if any) asked for.
5. Payments will be made on account pay in cheque on the basis of on finished work.
6. Taxes shall be deducted as per Govt. norms.
7. Documents like PAN, GST and Trade License are to be submitted with the tender paper.

8. The University of Gour Banga reserves the right to amend or cancel the scope of the work as well as to modify the terms and conditions of the tender.
9. The number of items may increase or decrease by the demand/decision of the authority of University.
10. Damage to goods or any other loss due to accident etc. during transit shall be the responsibility of the supplier.
11. The Bidder should have their registered office in West Bengal.
12. Time of delivery shall be reckoned before 60 (Sixty) days from the date of receipt of work order.
13. Bidder should be submitted OEM Authorized Letter. Without OEM Authorized Letter Tender will be treated as cancelled.
14. Warranty period will be considered as provided by the manufacturer.
15. Price shall be quoted in Indian Rupees (INR) inclusive of all taxes, installation & delivery Charges.
16. Tools and tackles for any installation work as required shall have to be arranged by the agency at their own cost.
17. Agency shall maintain & comply with all standard/relevant safety norms and measures at their own cost during installation of such equipment.
18. Recommendation of payment will be done only after successful delivery & installation of the equipment/materials.
19. University authority has the liberty to take administrative/legal steps as deem fit against the successful bidder at their discretion if the warranty/guarantee/services are not provided properly and in time by the agency/service provider. For any discrepancies, decision taken by the University of Gour Banga is final and binding.
20. No Conditional /Incomplete Tender will be accepted under any circumstances.
21. During scrutiny in the Technical Bid, if it is come to the notice to the tender inviting authority that the credential or any other papers found incorrect/manufactured/fabricated, then the tenderer/bidder will not be allowed to participate in the tender and that application will be rejected without any prejudice.
22. Before issuance of the work order, the tender inviting authority may verify the credential & other documents of the lowest tenderer if found necessary. After verification, if it is found that such documents submitted by the lowest tenderer is either manufactured or false, in that case, work order will not be issued in favour of the tenderer under any circumstances and the earnest money will be forfeited duly without any prejudice.
23. Bidders should upload their documents from the original copies. Uploaded copies which are not clearly visible will not be accepted.
24. For a particular work, in 2nd Call, Bona fide outsider Bidders may be allowed to participate along with other categories if that tender in 1st call cannot be finalized due to shortage of successful bidders.
25. Estimated Cost – Rs. 1.75 Crore (Including of all taxes).

INSTRUCTION TO BIDDERS:

1. General guidance for e-Tendering:

Instructions / Guidelines for tenders for electronic submission of the tenders online have been annexed for assisting the contractors to participate in e-Tendering.

2. Registration of Bidder:

Any bidder willing to take part in the process of e-Tendering will have to be enrolled & registered with the Government e-Procurement system, through logging on to <https://etender.wb.nic.in> (the web portal of public works department) the contractor is to click on the link fore-Tendering site as given on the web portal.

3. Digital Signature certificate (DSC):

Each bidder is required to obtain a class-II or Class-III Digital Signature Certificate (DSC) for submission of tenders, from the approved service provider of the National Information's Centre (NIC).

4. Downloading of Tender Documents:

The Bidders can search & download NIT & Tender Documents electronically from computer once the Bidders log on to the website mentioned in Clause 2 using the Digital Signature Certificate.

5. Participation in more than one work:

A prospective bidder shall be allowed to participate in the job either in the capacity of individual or as a partner of a firm. If found to have applied severally in a single job all his applications will be rejected for that job.

6. Submission of Tenders:

General process of submission - Tenders are to be submitted through online the web site stated in Cl. 2 in two folders at a time for each work, one in Technical Proposal & one in the Financial Proposal, before the prescribed date & time using the Digital Signature Certificate (DSC). Digitally Signed virus scanned copies of the documents are to be uploaded. The documents must be encrypted (transformed in to non readable formats).

a. Technical proposal:

The Technical proposal should contain scanned copies of the following further two covers (folders).

b. Statutory Cover Containing:

- i. Prequalification Application.
- ii. Demand Draft towards earnest money (EMD) as prescribed in the NIT against each of the serial of work in favour of the University of Gour Banga, payable at Malda.
- iii. Certificate of revolving line of credit by the Bank (if required).

c. Non-statutory Cover Containing:

- i. Professional Tax (PT), deposit receipt Challan, Pan Card, IT Return (for last three F.Y.), GST Registration Certificate and updated GST Return.
- ii. Registration Certificate under Company Act. (if any).
- iii. Registered Deed of partnership Firm/ Article of Association & Memorandum, if any.
- iv. Power of Attorney (For Partnership Firm/ Private Limited Company, if any).
- v. Tax Audited Report along with Balance Sheet & Profit & Loss A/c for the last three years, (year just preceding the current Financial Year will be considered as year – 1).
- vi. Credential documents within last 3 (three) years from date of issue of NIT.

THE ABOVE STATED NON-STATUTORY / TECHNICAL DOCUMENTS SHOULD BE ARRANGED IN THE FOLLOWING MANNER:

Click the check boxes beside the necessary documents in the My Document list and then click the tab "Submit Non-Statutory Documents" to send the selected documents to Non-Statutory Folder. Next Click the tab "Click to Encrypt and upload" and then click the "Technical" Folder to upload the Technical Documents.

Sl.No.	Category	Sub-Category Description	Details
1.	CERTIFICATES	CERTIFICATES	1. GST Registration Certificate & Acknowledgement. 2. PAN,I. Tax Return (for last three F.Y .P. Tax (Challan And Number, Current FY).

2.	COMPANYDETAILS	COMPANYDETAILS	<ol style="list-style-type: none"> 1. Proprietorship Firm (Trade License). 2. Partnership Firm (Partnership Deed, Trade License). 3. Ltd. Company (Incorporation certificate, Trade License). 4. Co-operative Society (Society Registration copy, Renewal copy, NOC from ARCS, Upto date meeting resolution copy). 5. Power of Attorney.
3.	CREDENTIAL	CREDENTIAL-1 CREDENTIAL-2	
4.	P/L AND BALANCE SHEET	P/L AND BALANCE SHEET (Last 3(Three) Financial Year)	
5.	MANPOWER	TECHNICALPERSONNEL	

d. Financial proposal

- i. The financial proposal should contain the following documents in one cover (folder) i.e. Bill of quantities (BOQ) the contract or is to quote the amount.
- ii. Only downloaded copies of the above documents are to be uploaded virus scanned & Digitally Signed by the Bidders.

7. Rejection of Bid:

The University of Gour Banga reserves the right to accept or reject any Bid and to cancel the Bidding processes and reject all Bids at any time prior to the award of Contract without thereby incurring any liability to the affected Bidder or Bidders.

8. Award of Contract :

The Bidder, whose Bid has been accepted will be notified by the University of Gour Banga through acceptance letter/ Letter of Acceptance / Work Order. The notification of award will constitute the formation of the Contract.

The Agreement will incorporate all agreements between the University of Gour Banga and the successful Bidder. All the tender documents including NIT & B.O.Q. will be the part of the Contact Document.

#NOTE: Successful bidders (i.e. L1 bidders) are requested to submit self- attested hard copies of all documents submitted during bidding.

GUIDELINES TO THE TENDERER

Instruction / guidelines for the tenderer for Electronic Submission of the tenders online: -

1. Registration of the Contractor/Bidders:

- a. Any Bidder willing to participate in the processes of e-Tendering is required to log on to <https://etender.wb.nic.in> with user ID (a valid e-mail ID with password) for

enrolment and registration. The Bidders are to click on the link for e-Tendering site as given on the web portal.

- b. The registration page would appear where the contractor is to fill up the details asked for regarding basic organization information in that page.
- c. Upon submission of such details online, registration would be done.

2. Obtaining Digital Signature Certificate (DSC):

- a. A Digital Signature is not a digitized form of signature. It is rather an identity proof for the tenderer, who is tendering electronically online, this may be used is the name of Authorized Representative of the Organization (Firm). It is stored in and given as a USB e-token.
- b. Class-III Digital Signature Certificate can be procured from the approved Certifying Authorities recognized the Controller of Certifying Authorities, Government of India on payment of requisite amount.
- c. The contractor/Bidders is again required to log on with the user ID and password to register the Digital Signature Certificate (DSC) without which he can not participate in e-Tendering. Once registered, this DSC can be used for participating in any e-Tendering.

3. Uploading documents:

- a. The tenderer is to log in with Digital Signature Certificate (DSC), e-token password to upload scanned copies of various documents, as sought for in the NIT. This can be saved, edited and even deleted, if necessary, by the tenderers.

4. Downloading Tender Documents:

- a. By tender search, (by value, by location, and by classification) or from latest tender, the tenderer may download and view details of tenders after clicking on serial number.
- b. Such downloaded documents can be saved in computer as well.
- c. After downloading documents and before submission of tender online, it is to be ensured that the documents have properly been filled up and necessary scanned documents have been uploaded, virus scanned and digitally signed.

5. Tender Submission:

- a. The Tenderer is to read the NIT carefully.
- b. All corrigendum, addendum to the original NIT is to be considered as part of NIT.
- c. Each tenderer can submit tender for maximum 1 serial (package) in any particular NIT, but such tenders will be considered subject to fulfilment of credential criteria and financial capability to be assessed by the Tender & Purchase Committee (TEC).
- d. The Tenderer is to use log in ID and password, followed by Digital Signature Certificate and to give e-token password to search the tender(s) he wants to participate from “Search Active Tenders”.
- e. The selected tender may be added firstly in “My favorite” and then “My Tender” A message would appear that the tender has been set as favorite.

- f. The Tenderer is required to click “View” to submit tender.
- g. The Tenderer is to further click “I agree” and “Submit”, before opting for offline payment for cost of tender paper and Earnest Money Deposit (wherever applicable).
- h. Earnest Money Deposit (wherever applicable) are to be paid through Demand Draft (DD) or as may be prescribed, details of which are to be filed up subsequently for online information.
- i. Synopsis of credential in prescribed format and other documents as may be required are to be entered, verified, encrypted (transformation into non readable format) and uploaded.
- j. Financial Folder containing the Bill of Quantities (BOQ) for offering the rate for execution of works is to be submitted next online, by uploading scanned copies duly encrypted.
- k. Before freezing the submission, changes may be made, but these cannot be done after freezing.
- l. Technical and Financial Bids, both are to be submitted concurrently online, positively before the prescribed date and time of tender submission.

Sd/-
The Convener,
Tender & Purchase Committee
University of Gour Banga, Malda – 732103