

# **ARMY PUBLIC SCHOOL**

**Sardar Patel Marg, Near Topkhana Bazar, Lucknow Cantt-226002**

**(Affiliated to CBSE) (English Medium)**

**TeL : 8795579555, Email: apsspmlko@gmail.com**

## **TENDER NOTICE**

1. Tender is invited from eligible firms for following Tenders :-
  - (a) CNG School Bus-17 Seater (Second Call)
  - (b) Construction of Entrance Gate of AMWP Building.
  - (c) Installation of "Outer Periphery Security System" in AMWP Building.
2. Last date of deposit the tender is 15 Dec 2025 at 12:00 hrs.
3. Detailed specification and tender can be seen and downloaded from School website [www.apsspmlko.com](http://www.apsspmlko.com).

**PRINCIPAL**

Tele: 6930 (Mil)  
8795579555 (Civ)

Army Public School  
Sardar Patel Marg  
Near Topkhana Bazar  
Lucknow Cantt – 226002

146/Outer Periphery /APS

29 Nov 2025

**TENDER : OUTER PERIPHERY SECURITY SYSTEM OF NEW AMWP BUILDING  
AT APS, SP MARG, LUCKNOW**

1. This school intends for "Installation of Outer Periphery Security System" of New AMWP Building as per specification/description attached.
2. You are requested to give your **TECHNICAL BIDS** and **COMMERCIAL BIDS** separately in two different sealed envelopes. The format for commercial and Technical bid are attached as Appendix to this letter. The envelopes should be clearly marked **TECHNICAL/COMMERCIAL BIDS**. The Technical Bid shall be opened first and only if found valid & suitable then the Commercial Bid would be opened. During the intervening period the Board of Officers/Teachers is at liberty to visit the shop/establishment of the bidder and select the firms/dealers for opening of Commercial Bids. The decision of the Board shall be final & binding on all and no representations in this regard will be entertained.
3. **Specifications.** Specifications mentioned in financial bid. Items as specified only are to be used. Items not found genuine/satisfactory shall be rejected and the supplier will remove the same from the school at his own cost.
4. **Cost of Tender Document.** DD of Rs 100/- payable to Principal, Army Public School, SP Marg payable at Lucknow to be attached with technical bid. Technical Bids not accompanied with the Demand Draft will be rejected.
5. **Bid security/EMD (refundable).** All Technical Bids must be accompanied with a Demand Draft of Rs 10,000/- (Rupees ten thousand only) payable to the 'Principal, APS, SP Marg, Lucknow' which is refundable EMD to non-acceptance of the tender. All Technical Bids not accompanied with the Demand Draft will be rejected.
6. **Time for Completion of Works.** Time for completion of the project will be specified in the work order. In no case period of completion of work would be more than **06 weeks** from the date of receipt of the order.
7. **Performance Security.** Performance security between 5-10% of project cost will be taken from the L1 vendor within 10 days of the receipt of supply order. The performance security should remain valid for a period of sixty days beyond the date of completion of the project.
8. **Payment Terms.** Full payment will be made through NEFT in the name of Firm after deducting LD charges (0.5% per week upto max 10% of project cost), if any, on completion of work & checking by the board and endorsing certificate that the quantity & quality of material used is of standard quality, as per specification/description and work is satisfactory.

Contd..2/-



9. **Acceptance of Tenders.** The Tenders/quotations are to be submitted in two envelopes and marked as under: -

- (a) Technical Bid - Envelope No 1 }  
(b) Commercial Bid - Envelope No 2 } (Mention name of tender on top of envelop)

10. **Opening of Tenders.** The Tender to be put in the tender box placed at Army Public School, SP Marg, Lucknow. Last date of deposit the tender is **15 Dec 2025 at 1200h** and the **Tech Bid** will be opened on the **same day at 1230h.**

11. The school reserves the right to alter the quantities mentioned or to reject any tender with valid reasons thereof and no representation in this regard would be entertained.

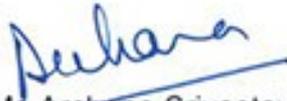
12. Ensure to attach all relevant document with tender to avoid rejection.

13. On site visit of location for installation should be verified physically and checked before submitting the quotation during the Pre-Bid Meeting.

14. **MSME and Startups will be given due relaxation as per Govt Norms.**

15. **Dispute Resolution.** In the event of any dispute or difference between the parties hereto, such dispute or difference shall be resolved amicably by mutual consultation. Final deciding authority will be Chairman, APS, SP Marg, Lucknow.



  
(Ms Archana Srivastava)  
Offg Principal  
APS, SP Marg, Lucknow

## TERMS AND CONDITIONS

1. Work/items as per design specifications mentioned only are to be supplied/executed. Specification of all material/items used other than those mentioned to be specified clearly.
2. All transportations and packing shall be arranged by the agency at own cost.
3. The agency shall be bound to complete the work as per the date specified in the work order. In case of delay in completion of work penalty shall be levied.
4. It is **MANDATORY** for all interested Vendors to attend the **Pre-Bid Meeting in School** from 1100hrs to 1300 hrs on 09<sup>th</sup> Dec 2025 and 10<sup>th</sup> Dec 2025. **Tender of the Vendors who have participated in the Pre Bid meeting will only be Accepted.**
5. All materials brought to site shall be subject to the approval of the school authority. In case if any unapproved material is used the same shall be removed by the agency at its own cost.
6. No part payment is permissible and the final bill would be processed and cleared only after satisfactory report by Project Monitoring Group.
7. Complaint reported if any, shall be rectified by the agency within two days, failing which in case of any dispute, the principal has the right to take a decision which shall be binding on both the parties.
8. **Warranty.** The following warranty will form part of the contract placed on successful Bidder: -
  - (a) For a period of three years or as per product and company norms from the date of completion of work for items/component used in the construction. If any item/portion of the work is found defective during this period, the same be rectified forthwith.
  - (b) All materials to be supplied of class 1 quality duly approved by the School Administration.
  - (c) During the period of warranty my firm will be responsible for removing/fixing of faulty eqpt within 24 hours, without any extra labour/repair & maint cost.



(Signature of the Agency)  
With complete address and seal

Address \_\_\_\_\_

**TECHNICAL BID**

**PROFORMA FOR TECHNICAL BID : PROCUREMENT AND INSTALLATION OF OUTER PERIPHERY FOR SECURITY SYSTEM IN NEW AMWP BUILDING**

<b>S No</b>	<b>Particulars</b>	<b>To be filled by the tenderer</b>	<b>Remarks (Please Specify Model No)</b>
<b>(A). Documents to be attached as below: -</b>			
1.	Name and date of establishment of the agency(along with documentary proof)	Yes/No	
2.	Detailed office address of the Agency with Office Telephone Number, Fax Number and Mobile Number and name of the contact person	Yes/No	
3.	GST Registration No (copies to be enclosed)	Yes/No	
4.	Category of trade	Yes/No	
5.	Name of partners/proprietor	Yes/No	
6.	OEM supplier cert/experience in supply & Installation	Yes/No	
7.	PAN/TAN Number with last two years IT Returns (In case of delayed filing a certificate in this regard be attached).	Yes/No	
8.	Whether the undertaking regarding acceptance of the terms and conditions have been duly signed, intoken of acceptance of the same, is attached.	Yes/No	
9.	EMD amount of Rs. 10,000.00 (Rupees tenthousand only) (Refundable)	Yes/No	
10.	DD amount of Rs 100.00 (cost of tender documents, non-refundable)	Yes/No	
<b>(B). Technical Specifications (attach data sheet of equipment, where applicable)</b>			
1.	Dome Camera with 4MP IP IR with Audio (CP Plus/ Honeywell/Dahua)	Yes/No	
2.	Bullet Cam with 4MP IP IR (CP Plus/ Honeywell/Dahua)	Yes/No	
3.	NVR-32ch with 4 SATA Ports (CP Plus/ Honeywell/Dahua)	Yes/No	
4.	10TB surveillance HDD (WD/Seagate)	Yes/No	
5.	43" Business series TV Guard Room (LG / Samsung)	Yes/No	
6.	Pole for Camera (6 Mtr) with Fixation	Yes/No	
7.	24-Port Gigabit Ethernet PoE+ Smart Switch w/ optional Remote/Cloud Management and 4 SFP+ Ports (190W) (D-Link/ Netgear)	Yes/No	
8.	8-Port Gigabit PoE+ Ethernet Smart Switch with 2 SFP Ports and Cloud (D-Link/ Netgear)	Yes/No	
9.	Single Mode 10G SFP transceiver (same make as Switch)	Yes/No	
10.	Single Mode 1G SFP transceiver (Same make as Switch)	Yes/No	
11.	RJ-45 Connector Box (100 pcs.) (D-Link)	Yes/No	
12.	CAT6 Cable Box (305 Mtr.) (D-Link)	Yes/No	
13.	Single Mode Optical Fiber- 6 core Armored (Mtrs.)- FO Cable, Single Loose Tube, OS2, G.652D, ECCS Armored, 2SW, GEI, Outdoor, HDPE, Black, 6F (per meter) (D-Link/Digisol)	Yes/No	
14.	LIU 6 port loaded single mode Rack Mount - Fiber Enclosure, SDX Fixed, 1RU, SM 6xLC Duplex Blue, FST, w/ Pigtails, 12F (D-Link/Digisol)	Yes/No	



**TECHNICAL BID**

**PROFORMA FOR TECHNICAL BID : PROCUREMENT AND INSTALLATION OF OUTER PERIPHERY FOR SECURITY SYSTEM IN NEW AMWP BUILDING**

<b>(B). <u>Technical Specifications (attach data sheet of equipment, where applicable)</u></b>			
15.	LIU 12 port loaded single mode Rack Mount - Fiber Enclosure, SDX Fixed, 1RU, SM 6xLC Duplex Blue, FST, w/ Pigtails, 12F (D-Link/Digisol)	Yes/No	
16.	LC-SC Single Mode Patch cord- 3 mtr.FO Patch Cord, SM OS2, LC-LC Duplex/UPC, LSZH, Yellow, 3m (D-Link/Digisol)	Yes/No	
17.	Wall-Mount Rack Enclosure, 9U x 550 x 500 with PDU 6 Socket 5/15Amp x1no. PVC Cable Manager x 1 nos. 1 Top mounted Fan and Mounting Hardware set of 10 cage nuts x2nos. (D-Link/Digisol)	Yes/No	
18.	3 KVA line interactive UPS with Battery Bank (APC/ BPE)	Yes/No	
19.	Electrical wiring (Multicore 2.5mm – (Havells/Finolex/ Polycab)- Box (90 Mtr.)	Yes/No	
20.	CAT6 Cable laying charges per mtr with conduit piping	Yes/No	
21.	Network Rack Mounting and dressing charges per rack	Yes/No	
22.	Optical Fiber Laying charges open laying - per mtr.	Yes/No	
23.	Fiber splicing charges per core	Yes/No	
24.	LIU Mounting and labelling charges- per unit	Yes/No	
25.	CCTV mounting charges per unit	Yes/No	
26.	CCTV Pole fixing charges	Yes/No	
27.	Civil work- digging, filling and road cutting with repatching for New Block to Wall for fiber laying (4 places appx. 20ft length)	Yes/No	
* <b>For detailed specification see as per Annexure I attached.</b>			
<b>Note:-</b> The brands as specified will only be accepted due to compatibility support with the existing CCTV setup.			
(i)	Camera – CP Plus/Dahua/Honeywell	(ii)	Switch, Converter & Cable – D-Link/Netgear
(iii)	Fiber Optic Cable – D Link/Digisol	(iv)	HDD – Seagate/WD
(v)	Smart TV – Samsung / LG	(vi)	UPS – BPE/APC
(vii)	Electrical wire – Havells/Finolex/Polycab		



**COMMERCIAL BID**

**Appendix B**  
(Ref para 3 of tender)

**PROFORMA FOR COMMERCIAL BID : PROCUREMENT AND INSTALLATION OF OUTER PERIPHERY FOR SECURITY SYSTEM IN NEW AMWP BUILDING**

- Note: - (i) Rates of specific brand where applicable be mentioned against each.  
(ii) GST type be specified by the vendor on their letter head.

S No	Nomenclature	Brand (ref note to tech bid)	Qty (Nos)	Rate	GST%	GST amount	Rate incl GST
1.	Dome Camera with 4MP IP IR with Audio (CP Plus/ Honeywell/Dahua)		6				
2.	Bullet Cam with 4MP IP IR (CP Plus/ Honeywell/Dahua)		26				
3.	NVR-32ch with 4 SATA Ports (CP Plus/ Honeywell/Dahua)		1				
4.	10TB surveillance HDD (WD/Seagate)		1				
5.	43" Business series TV Guard Room (LG / Samsung)		1				
6.	Pole for Camera (6 Mtr) with Fixation		5				
7.	24-Port Gigabit Ethernet PoE+ Smart Switch w/ optional Remote/Cloud Management and 4 SFP+ Ports (190W) (D-Link/ Netgear)		3				
8.	8-Port Gigabit PoE+ Ethernet Smart Switch with 2 SFP Ports and Cloud (D-Link/ Netgear)		2				
9.	Single Mode 10G SFP transceiver (same make as Switch)		4				
10.	Single Mode 1G SFP transceiver (Same make as Switch)		4				
11.	RJ-45 Connector Box (100 pcs.) (D-Link)		1				
12.	CAT6 Cable Box (305 Mtr.) (D-Link)		7				
13.	Single Mode Optical Fiber- 6 core Armored (Mtrs )- FO Cable, Single Loose Tube, OS2, G 652D, ECCS Armored, 2SW, GEI, Outdoor, HDPE, Black, 6F (per meter) (D-Link/Digisol)		550				
14.	LIU 6 port loaded single mode Rack Mount - Fiber Enclosure, SDX Fixed, 1RU, SM 6xLC Duplex Blue, FST, w/ Pigtails, 12F (D-Link/Digisol)		3				
15.	LIU 12 port loaded single mode Rack Mount - Fiber Enclosure, SDX Fixed, 1RU, SM 6xLC Duplex Blue, FST, w/ Pigtails, 12F (D-Link/Digisol)		2				
<b>Total (being considered in Fin Bid)</b>							

Contd..2/-



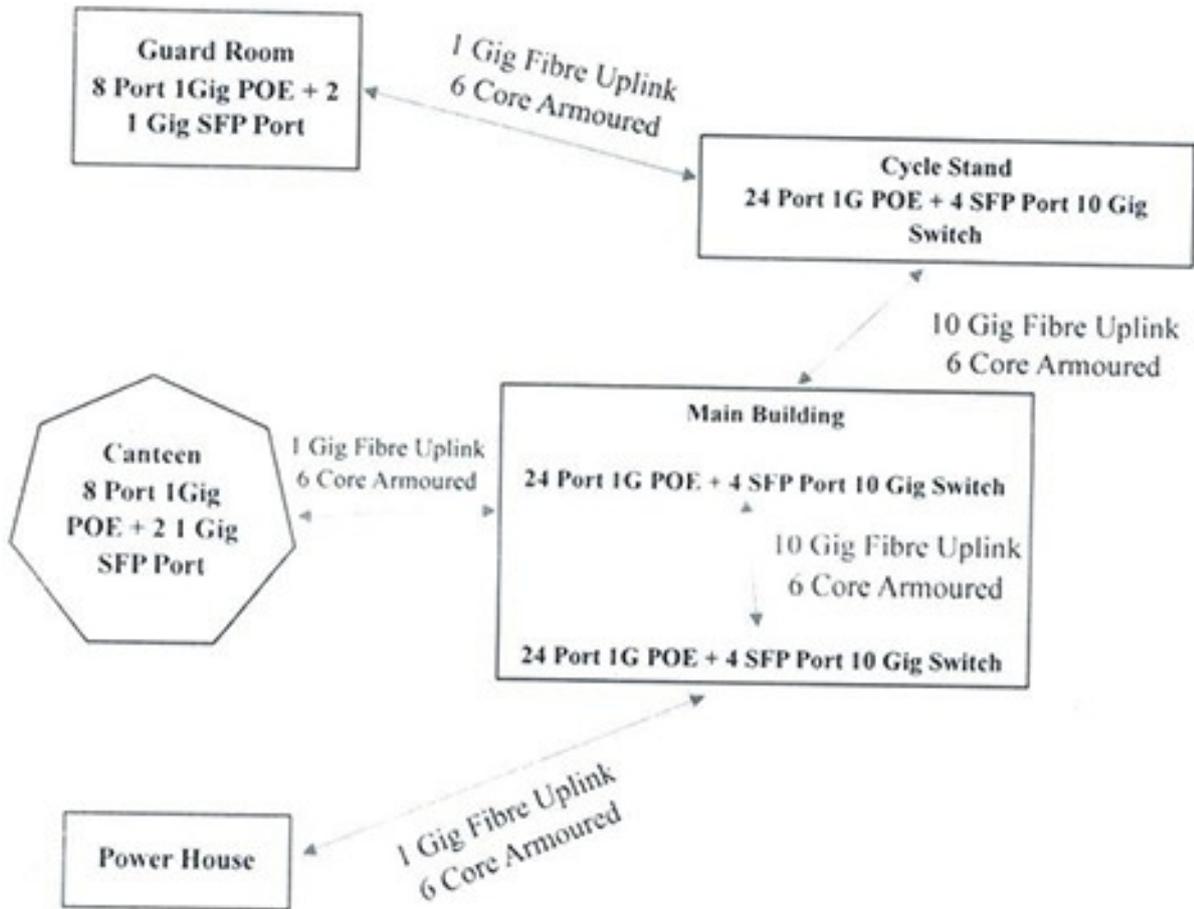
S No	Nomenclature	Brand (ref note to tech bid)	Qty (Nos)	Rate	GST%	GST amount	Rate incl GST
16.	LC-SC Single Mode Patch cord- 3 mtr. FO Patch Cord, SM OS2, LC-LC Duplex/UPC, LSZH, Yellow, 3m (D-Link/ COMMRAx/Digisol)	Nos	8				
17	Wall-Mount Rack Enclosure, 9U x 550 x 500 with PDU 6 Socket 5/15Amp x1no, PVC Cable Manager x 1 nos, 1 Top mounted Fan and Mounting Hardware set of 10 cage nuts x2nos. (D-Link/ COMMRAx/Digisol)	Nos	5				
18	3 KVA line interactive UPS with Battery Bank (APC/ BPE)	Nos	3				
19	Electrical wiring (Multicore 2.5mm – (Havells/Finolex/ Polycab)- Box (90 Mtr.)	Box	2				
20	CAT6 Cable laying charges per mtr with conduit piping	Mtr	2135				
21	Network Rack Mounting and dressing charges per rack	Nos	5				
22	Optical Fiber Laying charges open laying - per mtr.	Mtr	550				
23	Fiber splicing charges per core	Nos	42				
24	LIU Mounting and labelling charges- per unit	Nos	5				
25	CCTV mounting charges per unit	Nos	38				
26.	CCTV Pole fixing charges	Nos	5				
27.	Civil work- digging, filling and road cutting with repatching for New Block to Wall for fiber laying (4 places appx. 20ft length)	Job	1				
<b>Total (being considered in Fin Bid)</b>							

Total Rupees in words incl GST & other charges :

( Company Stamp and Signature)



BLOCK Connectivity Plan



*AS*  
(IT Subj  
Project etc)

Description	Minimum Specifications
<b>4MP Outdoor IP Bullet/Dome Cameras for General Surveillance Specifications</b>	
Type of Camera	Fixed focal lens
Image Sensor	1/2.9" 4MP PS CMOS Image Sensor
Signal System	NTSC/PAL
Resolution & frame rate	2560 × 1440 @25/30 fps
Minimum Illumination	0.006 Lux@F1.6 (Color,30IRE), 0.0006 Lux@F1.6(B/W,30IRE), 0 lux (IR on)
Imaging	1/1s to 1/30000s, Auto Gain Control, White Balance- Auto, Back Light Compensation, Multi zone Privacy Masking (upto 4 area), HLC.
Lens Type & Focus	Fixed focal lens (3.6mm by default, 8mm / 12mm Optional)
Angle of View	H: 84°, V: 42°, D: 101° (Bullet) / H: 83°, V: 43°, D: 100°; 2.8 mm: H: 102°, V: 54°, D: 121°(Dome)
Day & Night	Auto
Video Compression (Minimum)	Instastream/H.265, H.264+, H.264, H.264H, H.264B
Wide Dynamic Range	120dB
Digital Noise Reduction	3D DNR
Video Streaming & Frame Rates	Mainstream: 2688 × 1520@(1-20 fps) 2560×1440(1-25/30fps) Sub stream 1: D1@(1-25/30 fps), Sub stream 2: D1@(1-25/30 fps), Sub stream 3: D1@1fps
Connectivity	Ethernet
Image Setting	Rotate Mode, ROI, saturation, brightness, contrast, sharpness adjustable through client software or web browser
IR Range	IR Range of 50 Mtr., Warm Light Range of 30 Mtr.

<b>Network Compatibility</b>	
Network Protocol	Required all the protocols required to run the system
User Support	6 users
System Capability	ONVIF Profile S, G, & T. CCTV Camera OEM should be full-time member of ONVIF and quoted models should be listed on ONVIF official website (All the certifications & Credentials should be valid on the date of technical evaluation).
<b>General</b>	
Power Input	Standard DC/ AC Jack
Power Requirement	12 VDC/PoE: (802.3af)
Power Consumption	Basic: 2 W (12 VDC); 2.6 W (PoE) Max. (H.265+ intelligence on + WDR + illuminator on): 6.1 W (12 VDC), 7.2 W (PoE)
Housing/ Enclosure	IP67 & IK10
Operating Condition	-40 °C to +60 °C
Standards	UL/BIS, CE, FCC, RoHS Certified, STQC
Cyber Security	AES 256-bit Encryption, Configuration encryption, trusted execution, Digest, security logs, WSSE, account lockout, syslog, video encryption, IP/MAC filtering, HTTPS, trusted upgrade, trusted boot
Audio Support	Should have 1ch In & 1ch Out, Along with the Built in Mic (Dome)



## 24-port 1000base-T Gigabit PoE Smart Switch

<b>Physical Specifications</b>	24 # 10/100/1000 Base-T auto-sensing PoE+ ports, 04 # 1000/10GBASE-X SFP+ ports 1 RPS Connector, 1 USB Storage (image, config, log files)
<b>CPU/Memory</b>	CPU: 800 MHz, RAM: 512 MB, Packet buffer memory: 32 MB, Flash: 128 MB
<b>Performance Specification</b>	Stack height: 6 switches, Bandwidth: 128 Gbps non-blocking, Throughput : 95.2 Mpps, Acoustic noise (ANSI-S10.12): 36.8dBA, Mean Time Between Failures (MTBF): 147,965 hours, Forwarding modes: Store-and-forward, 8 Priority queues, Priority queuing: Weighted Round Robin (WRR), MAC Address database size: 16,000 media access control (MAC) addresses, VLAN: 256, 1,024 Multicast Groups, 32 Static Routes, 15 Routed VLANs, 512 ARP Cache entries, 8K DHCP snooping bindings, 100 shared for MAC, IP and IPv6 ACLs, Jumbo frame: 9K
<b>IEEE Network Protocols</b>	IEEE 802.3 Ethernet, IEEE 802.3i 10BASE-T, IEEE 802.3u 100BASE-T, IEEE 802.3ab 1000BASE-T, IEEE 802.1Q VLAN Tagging, IEEE 802.3x Full-Duplex Flow Control, IEEE 802.1Qav1, IEEE 802.3z Gigabit Ethernet 1000BASE-SX/LX, IEEE 802.3ae 10Gigabit Ethernet Over Fiber (10GBASE-SR, 10GBASE-LR, 10GBASE-ER, 10GBASE-LX4), IEEE 802.3an 10GBASE-T 10 Gbit/s Ethernet Over Copper Twisted Pair Cable, IEEE 802.3ad Trunking (LACP), IEEE 802.1AB LLDP with ANSI/TIA-1057 (LLDP-MED), IEEE 802.1p Class of Service, IEEE 802.1Qat1, IEEE 802.1D Spanning Tree (STP), IEEE 802.1s Multiple Spanning Tree (MSTP), IEEE 802.1w Rapid Spanning Tree (RSTP), IEEE 802.1x RADIUS Network Access Control,
<b>Power Consumption</b>	When all ports used, Line-Rate Traffic and Max PoE: 748.18W PoE budget: 195W
<b>Network Security and Traffic</b>	IEEE 802.1x, Guest VLAN, RADIUS based VLAN assignment via 1x MAC-based 1x RADIUS accounting, Network Storm Protection Broadcast, Unicast, Multicast Protection, Access Control Lists (ACLs) L2 / L3 / L4 IP-based ACLs (IPv4 and IPv6), MAC-based ACL, TCP/UDP-based ACL, MAC lockdown, MAC lockdown by the number of MACs IEEE 802.1x Radius Port Access Authentication, Port Security, PoE Timer
<b>QUALITY OF SERVICE (QOS)</b>	Access Lists, L2 MAC, L3 IP and L4 port ACLs, Port-based rate limiting : Egress only, Port-based QoS, Support for IPv6 fields, DiffServ QoS, IEEE 802.1p COS Destination MAC and IP, IPv4 and v6 DSCP, TCP/UDP-based WRR (Weighted Round Robin), Strict priority queue technology, Timing and Synchronization for Time-Sensitive Applications (IEEE 802.1AS), Stream Reservation Protocol (SRP) (IEEE 802.1Qat), Forwarding and Queuing for Time-Sensitive Streams (IEEE 802.1Qav), Audio Video Bridging Systems (IEEE 802.1BA), Auto-VoIP : Yes, based on protocols (SIP, H323 and SCCP) or on OUI bytes (default database and user-based OUIs) in the phone source MAC address Auto-Video
<b>L2 SERVICES - VLANS</b>	IEEE 802.1Q VLAN tagging, IP-based VLANs, MAC-based VLANs, Auto-Voice VLAN : Based on phones OUI bytes (internal database, or user-maintained) or protocols (SIP, H323 and SCCP), Auto-Video VLAN
<b>L2 SERVICES - AVAILABILITY</b>	IEEE 802.3ad - LAGs, Broadcast storm control, IEEE 802.3x (full duplex and flow control), IEEE 802.1D Spanning Tree Protocol, IEEE 802.1w Rapid Spanning Tree Protocol, IEEE 802.1s Multiple Spanning Tree Protocol, BPDU guard
<b>L2 SERVICES - MULTICAST FILTERING</b>	IGMP snooping (v1, v2 and v3), MLD snooping support (v1 and v2), IGMP snooping queries, Block unknown multicast, Multicast VLAN Registration (MVR)
<b>L3 SERVICES - DHCP</b>	DHCP Client, DHCP Snooping, DHCP relay
<b>L3 SERVICES - IPV4 ROUTING</b>	Static routing, Host ARP table, Router Discovery (IRDP)
<b>LINK AGGREGATION</b>	IEEE 802.3ad - LAGs, Manual LAG, of LAGs / # of members in each LAG : 26 LAGs with max 8 members in each LAG
<b>STACKING</b>	Stacking Interface: 10G SFP+ or 10GBASE-T copper (both at 10G speeds only) Max. number of switches within a stack : up to 6, Stacking bandwidth: 40G bi-directional
<b>N/W Monitoring and Discovery Ser</b>	802.1ab LLDP, SNMP V1, V2, V3, RMON 1,2,3,9
<b>Management</b>	Password management, Configurable Management VLAN, Admin access control via Radius and TACACS+, Web-based graphical user interface (GUI), Smart Control Center (SCC) for multiswitch management, IPv6 management, Dual Soft ware (firmware) image, Dual Configuration file, SNMP client over UDP port 123, SNMP v1/v2, SNMP v3 with multiple IP addresses, Cable Test utility, SSL/HTTPS and TLS v1.0 for web-based access, TFTP/HTTP File transfers (uploads, downloads) , Syslog (RFC 3164), USB port for firmware and config upload/download
<b>LEDs</b>	Per port: Speed, Link, Activity, Per device: Power, Fan and PoE Power Status
<b>Certifications</b>	CE mark, commercial, FCC Part 15 Class A, VCCI Class A Class A EN 55022 (CISPR 22) Class A, Class A C-Tick, EN 50082-1, EN 55024, CCC, CSA certified (CSA 22.2 #950), UL listed (UL 1950)/cUL IEC 950/EN 60950
	minimum 2 year



Description	Specifications
<b>32 Channel Network Video Recorder (NVR)</b>	
Network Video Recorder Embedded/ Installed OS (Linux/ Windows) along with minimum 32 Camera Licenses to record per NVR and to provide a live view, storage and simultaneously multi-channel playback of minimum 32 IP camera or more and must be ONVIF with minimum support of 160Mbps incoming Bandwidth.	
NVR should support H.265+/ Interstream, H.265, H.264, MJPEG, MPEG4 support. It should have below display split :- Main screen: 1/4/8/9/16/36/64, Must support 1 Channel Input, 1 Channel Output, RCA, Intelligent auto power on when power resumes after power outage.	
Storage	2 SATA ports. Each disk can contain up to 20 TB
Connectivity Interface :	2 (1 front USB 2.0 port, 1 rear USB 2.0 port), 1 (10/100/1000 Mbps Ethernet port, RJ-45)
Backup Interface :	USB device and Network
Video Output Ports	1 HDMI, 1 VGA,
Decoding	AI disabled: 1 Channel 12 MP@30 fps, 2 Channel 8 MP@30 fps, 3 Channel 5 MP@30 fps, 4 Channel 4 MP@30 fps, 8 Channel 1080p@30 fps AI enabled: 1 Channel 12 MP@30 fps, 1 Channel 8 MP@30 fps, 2 Channel 5 MP@30 fps, 3 Channel 4 MP@30 fps, 7 Channel 1080p@30 fps
Web & Mobile Application	Web, Mobile app ( For iPhone, iPad, Android Phone) for alerts and viewing.
Protocols	All required protocol to connect with the required camera
Standards	UL/BIS, CE, FCC, RoHS Certified
Power Consumption	Total output of NVR is <10 W(without HDD)
Power Supply :	12 VDC, 4 A
Operating Condition :	-10 °C to +55 °C (14 °F to +131 °F)
Backup Mode	USB device and Network
Alarm Input	4 Channels
Alarm Output	2 channels (1-channel 12 V 1 A output)
Alarm Linkage	Record, Snapshot, IPC external alarm output, Audio, Buzzer, Log, Preset, Email
Abnormality Alarm	Camera disconnection, Storage error, Disk full, IP conflict, MAC conflict, Login locked, Cybersecurity exception
SMD Plus by NVR	2 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change

### Additional Term and Conditions

The bidder must submit a **Bid-Specific Manufacturer's Authorization Form (MAF)** along with their bid for the following items:

- CCTV Cameras
- Network Video Recorder (NVR)
- Network Switch
- UPS
- Networking Passive Components
- Bids submitted without a valid and bid-specific MAF for the above items shall be summarily rejected.
- Army Public School reserves the right to verify the authenticity of the submitted MAF directly with the respective OEM (Original Equipment Manufacturer) at any stage of the evaluation process.
- Any discrepancy or failure in verification may lead to disqualification of the bidder.

