

FOR UPLOADING ON SCHOOL WEBSITE
DETAILED TENDER NOTICE

1. APS Kaluchak invites tenders from reputed vendors/Agencies/Firms having GST No for the items mentioned as under: -

S No	Details	Specification
(a)	Provision and Installation of Security Monitoring System for Classrooms and Corridors along with Accessories (Qty - 130).	Detailed specification as per Appx 'A'.

2. The complete bidding process will be Offline. All the notifications regarding this tender notice will hereafter be published on the school website www.apskaluchak.edu.in (**under NOTICE BOARD**) Tender documents including details of required technical specification can be seen and downloaded from the school website www.apskaluchak.edu.in. (**for further queries please contact mobile No 9086019935 between 0800 hours to 1500 hours**)

3. Tender documents can be submitted by registered post at the School's address or could be physically dropped in the Tender Drop Boxes (01 for Technical Bid and 01 for Commercial Bid) placed at APS Kaluchak Entrance Gate Adjacent to Pari Mahal (Banquet Hall) Jammu, PIN - 180010 (J&K) latest by **19 Oct 2024**.

4. Technical Bid & Commercial Bid is required to be submitted in separate sealed envelopes with heading pertaining to the type of bid (i.e. whether technical or commercial to be clearly specified on the top of the envelope with **nomenclature of the project/work**).

5. The Commercial bids in respect of only those bidders will be considered whose Technical Bid meets the required specifications/criteria. Rates applicable should be **valid for a period up to next 75 days** from the date of opening of the tender documents.

6. Liquidated Damage (LD) charges @ 0.5% of the total Contract value shall be weekly levied if the work is not completed within the period mentioned in supply order. All rates to be provided including GST.

7. A Demand Draft equivalent to 2% of the value of the quoted cost/amount should also be enclosed as the EMD (refundable) amount along with each commercial bid.

8. All vendors are requested to make necessary entry in the register which is kept with security staff at Gate No 1 while dropping bids in the tender boxes.

9. Only printed copy of the tech specification provided by the School (in school website) will be accepted duly signed and stamped by the firm/vendor. Any other Tech Specification apart from the one provided by the school in school website will not be accepted.

10. Vendors will only quote the cost of the project in the commercial bid. Any Tech specification mentioned in commercial bid will be rejected.
11. Bids must include in terms and conditions for the warranty and post warranty period for undertaking of the AMC
12. Only printed copy of the tech specification provided by the school (in school website) will be accepted duly signed and stamped by the firm/vendor. Vendor own specification will not be accepted.
13. Only reputed brands will be accepted. No Chinese/assembled products will be accepted.
14. All vendors are requested to make necessary entry in the register which is kept with security staff at Gate No. 1 while dropping bids in the tender boxes.

TECHNICAL SPECIFICATIONS PROVISION & INSTALLATION OF SECURITY MONITORING SYSTEM FOR CLASSROOMS AND CORRIDORS: APS KALUCHAK

5 MP DOME VANDAL PROOF CAMERA WITH MIC	SPECIFICATIONS	QTY (130)
Camera Type	5MP Fixed Dome Camera	
Image Sensor	1/2.7-inch Progressive CMOS or better	
Resolution	Min. 2560 × 1920 at 12 FPS, 20fps at 2560 × 1440 or better	
Video Compression	H.264, H.265 or better	
Streaming	Min. Three compressed stream (Individually Configurable)	
Audio Compression	G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/AAC	
ID/Password	Multi-level user ID/Password	
Simultaneous Live View	Up to 6 channels	
Physical Layer	1 RJ45 10M/100M self-adaptive Ethernet port	
Security	Password protection, HTTPS encryption, IP address filter	
Protocol	Minimum TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP,	
Lens Type	2.8 mm	
Region of Interest (ROI)	1 fixed regions	
Image Enhancement	BLC, HLC, 3D DNR	
Image Parameters Switch	Yes	
Image Settings	Saturation, brightness, contrast, sharpness, AGC, white balance adjustable by client software or web browser	
Illumination	Colour: 0.01 Lux @ (F1.2; AGC ON), 0.028 Lux @ (F2.0; AGC ON)	
Audio	1 Input, 1 Output	
Alarm	1 Input, 1 Output	
On-Board Storage	Built-in memory card slot, support micro SD card, up to 256 GB	
IR Range	Up to 40 mtrs. or better	
Privacy Mask	Yes	
Electronic Shutter	1/3 s to 1/100,000 s with Slow shutter support	
Wide Dynamic Range	120dB	
ONVIF	Profile S, G, T supported	
Day and Night	Day, Night, Auto, Schedule	
Operating Temperature	-30 °C to +60 °C Humidity 95% or less (non-condensing)	
Housing	IP67, IK10	
Edge based video content Analytics	Line crossing detection, Intrusion detection, Motion Detection, Video tampering alarm exception	
Power Source	12 VDC, PoE: 802.3at/af	
Certification	CE, FCC, UL/BIS	

TECHNICAL SPECIFICATIONS PROVISION & INSTALLATION OF SECURITY MONITORING SYSTEM FOR CLASSROOMS AND CORRIDORS: APS KALUCHAK

NVR 32 PORTS	SPECIFICATION	QTY (06)
IP video input	32 Ch	
Incoming bandwidth	Min.250Mbps	
Outgoing band width	Min.160Mbps	
Recording resolution	Upto12MP	
Video o/pinter faces	HDMI/VGA independent output HDMI - 4K Output VGA – 1920 × 1080P Output	
Audioo/p	1 ch,RCA	
Two-Way Audio	Support	
Decoding format	H.265+,H.265,H.264+,H.264	
Decoding Capability	2-ch@12 MP (30fps)/3-ch@8MP (30fps)/6-ch@4 MP (30 fps)/12-ch@1080p(30 fps)	
Synchronous play back	Upto16channel	
Smart search for the selected ar	Support	
Network Protocol	TCP/IP,DHCP,IPv4,IPv6,DNS,DDNS,NT P,RTSP,SMTP,SNMP,NFS,iSCSI	
SATA interfaces	2 SATA interfaces witheachsupporting10TB	
Network interfaces	1,RJ-4510/100/1000Mbpsself-adaptive Ethernet interface	
USB interface	Frontpanel: 1× USB 2.0;Rear panel: 1× USB 2.0	
Alarm in/out	4/1	
Interoperability	ONVIF, ISAPI	
Power supply	12VDC, 3.3 A	
Intelligent Analytics by NVR	Facial recognition	
Consumption	(without hard disk ≤ 15W(without HDD)	
Working temperature	-10to+55°C (14to131°F)	
Working humidity	10 to 90%	
Certification	CE, FCC, ROHS, UL/BIS	
HDD 10 TB	SPECIFICATION	QTY (06)
Storage Capacity	10 TB	
Type	Survillence Grade	

TECHNICAL SPECIFICATIONS PROVISION & INSTALLATION OF SECURITY MONITORING SYSTEM FOR CLASSROOMS AND CORRIDORS: APS KALUCHAK

24 PORTS POE SWITCH		SPECIFICATION	QTY (04)
GENERAL INTERFACES			
		26 10/100/1000Mbps RJ45 Ports	
		2 Gigabit SFP Slots	
	PoE Standard	802.3 af/at	
POE			
	PoE Ports	24, up to 30 W Per Port	
	PoE Power Budget	250 W*	
	Switching Capacity	56 Gbps	
PERFORMANCE			
	Packet Forwarding Rate	41.66 Mpps	
	Max Address Table	8 K	
	Packet Buffer	4.1 Mbit	
	Jumbo Frame	10 KB	
	Power Supply	100-240V AC, 50/60Hz	
PHYSICAL & ENVIRONMENT			
	Maximum Power Consumption	27 W (220V/50Hz. no PD connected)	
	(220V/50Hz)	304.7 W (220V/50Hz. with 250W PD connected)	
	Maximum Heat	92.07 BTU/h (no PD connected)	
	Dissipation	1039.03 BTU/h (with 192 W PD connected)	
	Dimensions (W×D×H)	17.3 × 8.7 × 1.7 in. (440 × 220 × 44 mm)	
	Fan Quantity	2	
	Operating Temperature	0°C~50°C (32°F~122°F)	
	Storage Temperature	-40°C~70°C (-40°F~158°F)	
	Operating Humidity	10%~90%RH, non-condensing	
	Storage Humidity	5%~90%RH, non-condensing	
	Certification	CE, FCC	

TECHNICAL SPECIFICATIONS PROVISION & INSTALLATION OF SECURITY MONITORING SYSTEM FOR CLASSROOMS AND CORRIDORS: APS KALUCHAK

16 PORT POE SWITCH		SPECIFICATION	QTY (01)
GENERAL			
	Interfaces	18 10/100/1000Mbps RJ45 Ports 2 Gigabit Combo SFP Slots	
	PoE Standard	802.3 af/at	
	PoE Ports	16, up to 30 W Per Port	
	PoE Power Budget	250 W*	
	Switching Capacity	36 Gbps	
PERFORMANCE	Packet Forwarding Rate	26.78 Mpps	
	Max Address Table	8 K	
	Packet Buffer	4.1 Mbit	
	Jumbo Frame	10 KB	
	Power Supply	100-240V AC, 50/60Hz	
PHYSICAL & ENVIRONMENT	Maximum Power Consumption	21.41 W (220V/50Hz. no PD connected)	
	(220V/50Hz)	296.3 W (220V/50Hz. with 250W PD connected)	
	Maximum Heat	73.01 BTU/h (no PD connected)	
	Dissipation	1010.38 BTU/h (with 192 W PD connected)	
	Dimensions (W×D×H)	17.3 × 7.1 × 1.7 in. (440 × 180 × 44 mm)	
	FAN Quantity	2	
	Operating Temperature	0°C~50°C (32°F~122°F)	
	Storage Temperature	-40°C~70°C (-40°F~158°F)	
	Operating Humidity	10%~90%RH, non-condensing	
	Storage Humidity	5%~90%RH, non-condensing	
	Certification	CE, FCC	
OFC 6 Core		SPECIFICATIONS	QTY (1500 Mtrs)
Type Of Cable		6F SM UT NON ARMoured WITH FRP ROD OFT	
Fiber	17U-T G.652D	5101 Matched Clad as per International Telecommunication Union[/TU-T G.6521	
Fiber Size	um	9	
No. OF FIBERS / LOOSE TUBE	No.	6F	
Fiber Colour 1dentification			
Optical Parameter	No.	BI,OR, GR,BR,SL,NT	
ATTENUATION @ 1310nm	db/Km	less than 0.34	
ATTENUATION @1550nm	dB/Km	Less than 0.23	

Loose Tube/Tight Buffer		LOOSE TUBE	
Material		PBTP	
No OF LOOSE TUBES	No.	1	
Diameter	mm	1.9/2.5	
Colour Of Loose Tube		Natural	
Sequence Of Elements In Core		Na	
Loose Tube Gel		Thixotropic Gel	
Jacketing			
Material		Hope	
Colour		Black	
Nominal Thickness	mm	2.25	
Overall Diameter (Nominal)	MM	6.1mm	
Rip Cord		Na	
Strength Members		Yes	
Number		1,2	
Type		Frp Rods	
Diameter	MM	1mm	
Mechanical Test			
Tensile Strength		Approx 400 Newton	
Bending Radius		15D	
Crushing		700. Newton/100mm	
Torsion		360	
Environmental Performance			
Installation		Min -20/Max +70 Degree	
Service		Min -20/Max +70 Degree	
Storage		Min -20/Max +70 Degree	
Cable Weight (Nominal)	Kg/Km	58	
Standard Length +/- 5%	Mtrs	As Per Customer's Requirement	
Type Of Packaging		Wooden Drum/ Poly Roll	
MATRIX SWITCHER		SPECIFICATION	QTY (01)
	Matrix Switch	4x 4 HDMI 4K	
	Input , Output with Remote Control	4- Input, 4-Output	
	Supports UltraHD	4K@60HZ 4:4:4,HDR,YUV,HDMI 2.0,HDCP 2.2, 3D, 1080P	
	GBPS	18 GBPS	
WIRELESS MOUSE		SPECIFICATION	QTY (10)
	Range	3 Meter Minimum	
HDMI CABLE 15 MTRS		SPECIFICATION	QTY (05)
	Data transfer Rate	True 18 Gbps	
	HDMI Rating	CL3 Rated	
	Resolution Supports	4K 60Hz, Ultra HD, 3D	
CAT6 UTP CABLE		SPECIFICATION	QTY (3050 MTRS)
	Make	U/UTP 4Pairs cable-category 6- PVC Sheath	

	Model	23 AWG	
	Type	Solid Bare Copper	
	Size	Support	
	Material	60 V	
	Rip-cord & Separator	ISO/IEC11801, ANSI/TIA-568-C.2, RoHS 2.0	
	Operating voltage	-20°C - 75°C	
	Reference standard	Polyethylene (HDPE)	
	Ambient Temperature		
	Insulation Material	U/UTP 4Pairs cable-category 6-PVC Sheath	
	Make	23 AWG	
	Model	Solid Bare Copper	

TERMS AND CONDITIONS

- Only Reputed Brands will be accepted.
- No assembled products will be accepted.
- Chinese Brands not accepted.