



പിഎം. ശ്രീകേന്ദ്രീയവിദ്യാലയം, പട്ടം, തിരുവനന്തപുരം  
 पीएम श्री केन्द्रीय विद्यालय, पट्टम, तिरुवनन्तपुरम, केरलम - ६९५००४  
 PM SHRI KENDRIYA VIDYALAYA PATTOM, THIRUVANANTHAPURAM-695004  
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फ़केवी./पट्टम .प्रपा/2-21/2024-25/

दिनांक: 03/02/2025

**Sub: INVITING QUOTATIONS FOR SUPPLY AND INSTALLATION OF CCTV SURVEILLANCE SYSTEM INLCUDING CABLING, NVR AND OTHER ACCESSORIES AT PM SHRI KENDRIYA VIDYALAYA PATTOM THIRUVANANTHAPURAM**

1. PM Shri Kendriya Vidyalaya Pattom Thiruvananthapuram, An Autonomous Body under Ministry of Education, Government of India, is an Education institution under Kendriya Vidyalaya Sangathan a Society registered under Societies 'Registration Act 1860.The Sangathan administers the Scheme of Kendriya Vidyalaya set up for imparting education to the children of transferable Central Govt. Employees among others.

2. Sealed competitive quotations from firms who are having valid license & registration are invited by the Principal PM Shri Kendriya Vidyalaya Pattom Thiruvananthapuram for supply and installation of CCTV Surveillance system as per the schedule/ details attached.

**TECHNICALSPECIFICATIONFORCCTVCAMERA&ACCESSORIES**

SI No	Products	Product Specification		Rate / Unit
01	CAMERA IP 4MP IP DOM	<p>Image Sensor Minimum Illumination Effective Pixels Shutter Speed White Balance <b>Lens</b> Lens Type  Mount Type MaxAperture IrisControl Close Focus Distance  <b>DORI Distance</b> Gain Control(AGC) Video Compression Angle of View Back Light Comp. S/N Ratio Video Streaming  Resolution  Mirror Motion Detection Privacy Mask ICR</p>	<p>4MPPSCMOSImageSensor(0.84567cm) 0.0Jlux@F2.0(COLor,30IRE)0.001lux@F2.0(B/W,30IRE)0lux (IRon) 25G0(H) 1440(V) Auto/Manual,1/31/100000s Auto;natural;streetlamp;outdoor; manual; regional custom 2.8mm Wide range lens M12 F2.0 Fixed 1.4m  85.2m(Detect)34.1m(Observe)17m(Recognize)8.5m (Identify) Auto H.265/SmarrH.264+/H.264/H.264B/MjPEG H: 76°; V: 40°; D:92' BLC/ HLC/ DWDR &gt;56dB Main stream: 2560 1440@ (1-25/30 hps) Su b stream: 704x 576@ (1-25 lps)/704•480@(1 -30lps)*The values above are the max. frame rates of each stream; for multiple streams, the Values will be subjected to the total encoding capacity. 4M(2S60^1440),3M(23041296)1080p(1920^1080)1.3M (1280•960);720p(1280 720);D1(704•S76/704•480);VGA (640•480);CIF(352•288/352•240) Support Off/On(4area,Rectangle) a areas Auto(ICR)/Color/B/W H.264:32kbps-4096kbpsH.265:12kbps-4096kbps</p>	

		<p>Video Bit Rate Noise Reduction Bit Rate Control Protocol</p> <p>Image Rotation</p> <p>Ethernet Alarm Event</p> <p>Cyber Security</p> <p>IR Distance</p> <p>Browser</p> <p>Edge Storage</p> <p>Operating Temperature</p> <p>Operating Humidity</p> <p>Storage Temperature</p> <p>Storage Humidity</p> <p>Power Source</p> <p>Power Consumption</p> <p>Weatherproof</p> <p>Standard Casing</p> <p>Dimension</p> <p>Weight</p>	<p>3D-DNR CBR/VBA IPv4;IPv6;HTTP;TCP;UDP;ARP;RTP;RTSP;RTCP;SMTP;FTP; DHCP; DNS; DDNS; NTP; 0°/180°</p> <p>RI-45(10/100Base-T) Network disconnection; IP conflict; illegal access; motion detection; video tampering; security exception Configuration encryption; Trusted execution; Digest; Security logs: HTTPS; Trusted upgrade; WSSE: Trusted boot: Account lockout; Generation and importing of X.509 certification; Video encryption</p> <p>IR Range of 30Mtr., Smart IR</p> <p>IE, Chrome, Firefox</p> <p>FTP</p> <p>40°C to +50°C (-40°F to +122°F)</p> <p>&lt;95%</p> <p>-40°C to +60°C (-40°F to +140°F)</p> <p>195%</p> <p>DC12V, PoE</p> <p>Basic: 1.4 W (12 VDC); 2.1 W (PoE) Max. (ICR switch + IP intensity): 3.0 W (12 VDC); 402 W (PoE)</p> <p>IP67</p> <p>Metal</p> <p>198.9mm * 80.2 mm * 76.2 mm (7.83" * 3.16" * 3.00") (L * W * H)</p> <p>0.460kg</p>	
02	<p>NETWO RK VIDEO RECOR DER 32'CHA NNELS 4K CP Plus</p>	<p>Two-way Talk Video Output Channel</p> <p>Bandwidth Incoming Motion Detection Smart Phone Hard Disk</p> <p>Recording Mode</p> <p>Search Mode</p> <p>Backup Mode Playback</p> <p>Ethernet Interface Ports Protocols</p> <p>Power Supply Power Consumption Working Temp</p>	<p>1*RCA input: Audio Input/Audio Output 1* VGA output, 1* HDMI output both VGA and HDMI 32channel Video, (Upto 8 MB support)</p> <p>160Mbps; Storage: 128 Mbps; Forward: 48 Mbps</p> <p>Zones: 396 (22*18) Android Phone, OIS 2 SATA III ports, up to 10 TB for a single HDD Maximum 18-20 TB as per ETA Manual; record; alarm recording ; SMD recording ; smart recording Time/Date, MD and Exact Search (accurate to second), Smart search USB Device/Network Play/pause/stop/slow/quick/backward/by frame Full screen, Backup (video clip/file), partial zoom in, and audio on/off 1 * RJ-45, 10/100/1000 Mbps self-adaptive Ethernet port 2 USB Ports (1* front USB2.1; 1* back USB2.0) HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP B Filter; DDNS; FTP; Alarm Server; IP Search, P2P, auto register, RTSP, ONVIF (profile T/S/G); CGL; SDK DC12V/4A &lt;5.6 W (HDD not included, idling)</p> <p>-10°C to +55°C (+10 ° F to + 131 ° F)</p>	
03		<p>Switch Capacity</p> <p>Uplink Ports</p> <p>PoE Power Budget</p> <p>Anti-thunder Level</p> <p>ESD</p> <p>Ethernet Port Light</p> <p>Network Port</p>	<p>12 Gbps Full duplex 16 channel &amp; 8 Channel</p> <p>2, 1000Mbps; Transmission Distance: 0-100m</p> <p>48W</p> <p>Common mode : 2KV Differential mode: 2KV</p> <p>Air discharge: 1.5KV Contact discharge: 1.5KV</p> <p>Light off: Link is disconnected Red light on: Powering but data</p>	

	FAST ETHER NET POE SWITCH	Transmission Distance PoE Ports PoE Power Supply PoE Standard Packet Forwarding Rate MAC Address List Power Source Power Consumption Operating Temperature Humidity Storage Temperature	Disconnected Light is disconnected Light flash quickly: Data Transmitting 16 1Gbps 4, 1000Mbps; Rj45 ports; Max. 30W Output of Single PoE Port Transmission distance:0-1 00m 1/2(+),3/6(-) IEEE802.3al IEE E802.3at 1.488ttlpps/port 2K Built-in Power Supply, Input; 110-264V AC, 50/60H2 <5W -.10'c- -50"c 1 096-9570, non-condensing -40'c-70'c	
04	SURVIE LLA NCE HARD DISK	Device Device Type Drive Capacity Interface Cache Memory Transfer Rate Non-recoverable Read Error Reliability Form Factor	Surveillance Systems 3.5 inch HDD 8TB SATA 256 MB 210 Mbps 1 per 10E15 300000 (Lcrad/Unload Cycles), 1000000 hours {Mean Time between 3.5 inch	
05	NETWO RK TWISTE D CABLE UTP	Category : 6 UTP Solid cable Conductor : Conductor : 23 AWG {Solid} Conductor Meta: Cond uctor Meta : Bare Copper insulation Material: HD^PEOD : 6,1mm t0.2 Resistance Unbalance: 5% Max Capacitance Unbal ance: 330pF/1CI0m Delay Skew: <45nS Gauge: 52		
06	HDMI Cable	8K resolution support HDMI cable		
07	USB extender			
08	RJ 45 CONNE CT oRs	Technology Cat6; CatSa , Pin make Brass , Cable Shielding UTP Cable Outer Diameter {OD} < 6.2 mm Wire Gauge {AWG} 24 - 26 , Operating Temperature Range-40" to 3.85"F (-40" to 85"C		
09	ETECT RIC WIRE	Product Category Size of Conductor Core Length Conductor Material Colour insulation Material Current Rating AC	1 Core Cables 1sq mm 1 Core 90 mtr Copper Black/Red/Green PVC 6-15 Amp	
10	RACK WALL MOUNTI N G	9U Wall Mount Networking Rack, Size: 1000x600x600 mm {hxwxd} Mild Steel. Usage/Application. Use To Hold Networking Equipment Outside Servers Like Switches, Patch Panels, And Routers. Product Type. Wall Mount. Size. 1000x600x600 mm {F*xWxD} Finishing Type. Powder coated. Rack Standard. Equipment Mounting.		
11	INSTAT LAT ION AND SERVIC	installation of camera as per location allocated and proper installation guideline for safety and security. 10		

	E		
12	CABLIN G	Pipe, Conduits and other accessories with labour for fixing ISI certified pipe	

### 3. **Terms and conditions**

- a) The contract shall be for the work of the mentioned items for PM Shri Kendriya Vidyalaya, PATTOM Thiruvananthapuram. The bidder shall quote the rates for items of work in the attached format (Annexure I). Corrections, if any, shall be made by crossing out ,initialing with date and rewriting.
- b) All taxes, duties and other levies payable by the bidder, shall be included in the total price. They shall be quoted separately. No additional payment will be done for anything that is not quoted.
- c) Theratesquotedbythebiddershallbefixedforthedurationofthecontracti.e.foroneyear from the date of award of the contract.
- d) Each bidder shall submit only one quotation.
- e) Quotations are not acceptable if submitted through e-mail/Faxetc
- f) The bid should be submitted along with EMD for Rs. 5000/- (Rupees Five Thousand Only) through NEFT/RTGS or bank draft in favour of "Principal Kendriya Vidyalaya PATTOM Thiruvananthapuram VVN A/c" payable at Thiruvananthapuram. The EMD paid will be refunded in the case of unsuccessful bidders within 90 days from the date of opening of Quotations.
- g) The firm should enclose supporting documents regarding registration of GST/IT—PAN/TAN /Registration Certificates from department concerned without fail.

### 4. **Validity of quotations**

The quotation shall remain valid for a period not less than One year after the deadline specified for submission of quotations. It is also mentioned that if the buyer satisfies the performance of Bidder (L1), the period of validity can be extended for another 01year with the approval Chairman, VMC.

### 5. **Evaluation of quotations**

The Purchases will evaluate and compare the quotations determined to be substantially responsive, i.e., which are:

- a. Properly signed
- b. Confirm to the terms and conditions and specifications.

The evaluation would be done for all the items/services put together. The items/services for which no rates have been quoted would be treated as zero and the total amount would be computed accordingly, the bidder who has quoted for partial quantity of any one or more item(s) would be treated as non-responsive. The purchaser shall keep in mind that the rates quoted shall be competitive and do not in any manner whatsoever compromise with the quality of item and services to be provided by him as per the terms and conditions. PM Shri KV Pattom Thiruvananthapuram will award the contract to the responsive bidder whose total cost for all the items put together is the lowest. However, this does not restrict the purchaser from imposing any further conditions before awarding the contract.

### 6. **Award of contract:**

- a) The purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest price as mentioned above.
- b) The bidder whose bid is accepted will be notified of the award of the contract by the office prior to expiration of the quotation validity period.
- c) The Notification of Award shall be clearly specifying any change in the unit price or any other terms and conditions accepted.
- d) Normalcommercialwarranty/guaranteeshallbeapplicabletothesuppliedGoods/Services.

- e) Payments shall be made within 15 days after the supply is completed.
- f) Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of the contract.

## 6. Additional Terms and Conditions

- a) The awardee of the contract shall begin the work only after obtaining the APPROVAL OF THE Work Monitoring Committee with regard to the quality of the Material to be used for the work.
- b) The tools for installing CCTVs and other accessories, ladders, etc. to be brought by the awardee and the rates quoted should include all these. At no cost, such materials shall be provided by the Vidyalaya.
- c) No material/ services for supply and installing CCTVs along with its accessories shall be provided by the Vidyalaya.
- d) The awardee of the contract shall be liable to compensate the damages caused to the Building or the materials in the building, if any, during the work.
- e) The awardee of the contract shall be liable to pay compensation/penalty if the said work is not completed within the stipulated time.
- f) Tax Deducted at Source (TDS)/GST TDS will be deducted as per applicable Rates.

## 7. Last date and time of receipt of quotations:

The quotations and/or documents should be in sealed cover with super scribed on the envelop as "Quotations for supply and installation of CCTV surveillance system" and should reach in this Vidyalaya on or **before 10 February 2025 (1400 Hrs). The quotation shall be opened on the same day (10.02.2025) at 1430 Hrs.** The representatives who choose to be present at the time of opening of quotations are invited to the institute to attend the proceedings.

भवदीय,

(आरगिरिशंकरनतम्पि)

प्राचार्य.

केवीपट्टम