

Website: www.keralapsc.gov.in
e-mail: jsrna.psc@kerala.gov.in



FAX : 0471 - 2553485
Telephone : 0471-2546202/2546396

KERALA PUBLIC SERVICE COMMISSION

No. RA1-3/50018 /2018-KPSC-Part(3)

Thiruvananthapuram,
Dated: 06 /12 /2022

E-TENDER NOTICE

Invitation of E-Tender for **the supply and installation of the CCTV Camera at the Online Examination Centre, Palakkad** of the Kerala Public Service Commission, Eranakulam .

E-Tender in one cover system is invited from competent dealers and manufacturers for the supply and installation of the CCTV Camera at the Online Examination Centre, Palakkad in accordance with respective specifications as shown in Annexure I of the Tender document.

Sl No.	Item Details	Cost of Tender Forms (Rs)	EMD(Rs)
1	Supply and installation of CCTV Camera at the Online Examination Centre, Palakkad	1800/-	22500/-

Tenders shall be submitted as e-tender through <https://etenders.kerala.gov.in>. Bidders who have enrolled in the above portal with their own digital signature certificate (DSC) can participate in the tender. For obtaining digital signature certificate (DSC) and necessary portal enrollment bidders can visit the above website. E-Tender document and other details can be obtained from the above e-portal.

Tender no. : 21/2022/SN
Document download/sale start date : 07/12/22
Bid submission start date : 07/12/22
Document closing date : 21/12/2022– 5.00 pm
Date & Time of opening of tender : 23/12/2022- 2.30 pm

Cost of e-Tender & EMD (Online payment):-

Payment as shown in the above table including EMD should be made as a single payment through online.

Dates upto which rates are to remain-firm for acceptance : 90 days

Performance security	:	5% of the contract value
Period of supply	:	within 20 days of supply order

The bidder desiring to take part in the bid shall log in to <https://etenders.kerala.gov.in/> and then select tender and initiate payment. Bidders will be directed to the online payment gateway page and they shall make payment as directed therein.

The e-tenders submitted by the competent dealer should definitely contain a scanned and signed copy of the declaration of product offered to supply and dealership certificate from the manufacturer.

Tenders will be opened in the online presence of each bidders or their authorized representatives who have logged in at the prescribed time of opening. If the date fixed for opening happens to be holiday or due to net failure the tenders will be opened in the next working day at the same time.

The price of the e-tender form will be received only through online payment methods stipulated in the website.

Scanned copy of the agreement (Annexure II) in the prescribed format in Kerala Stamp paper worth Rs.200/- shall be submitted online and original shall be given to the Secretary, Kerala Public Service Commission before opening of e-tender.

The rates should be quoted in Indian Currency only.

Details with respect to the e-tender and the details of specifications (Annexure I) of the item to be supplied can be obtained from the e-tender website <https://etenders.kerala.gov.in/>.

The Secretary, Kerala Public Service Commission, Pattom will scrutinise the tenders received and will take necessary action for the award of contract.

The right of acceptance or rejection of any e-tender in full or in part without assigning any reasons thereof is reserved with the Secretary.

The rules and regulations prescribed for e-tenders by the Government of Kerala, shall be applicable to this e-tender also.

Terms and Conditions:

1. The make, model, year of manufacture etc of the Cameras,NVR ,etc: shall be clearly mentioned.
2. **3 Years Comprehensive warranty from Original Equipment Manufacturer (OEM) should be assured. Dealership/Authorization and Warranty Certificates from OEM shall be submitted with the tender. Dealership warranty will not be accepted.**

3. All charges, taxes, duties and levies should be clearly indicated.
4. The items should be supplied to the District Office of the Kerala Public Service Commission, Palakkad at the expense of the Tenderer.
5. The installation, commission and initial operation to the satisfaction of the KPSC will be the responsibility of the supplier.
6. The payment will be made after completion of supply, installation and commission subject to the certification by our Technical Experts as to the quality and efficiency of the item supplied.
7. In case of under performance during the warranty period, the item should be replaced and period of warranty will recommence from the date of replacement. Any legal disputes that may arise in relation to the e-tender formalities will be restricted to jurisdiction of Thiruvananthapuram District.

The communications should be addressed to :

**The Secretary,
Kerala Public Service Commission
Pattom, Thiruvananthapuram
Kerala-695004**

**SAJU GEORGE
SECRETARY,
KERALA PUBLIC SERVICE COMMISSION**

Note:- More details can be had from the office of **Additional Secretary, R&A wing,
Kerala Public Service Commission, Pattom, Thiruvananthapuram-4**

CCTV - OLE Palakkad

Sl. No.	Description of item	Qty
1	32 Channel Network Video Recording Software / Storage Hardware as the specification attached. Preferred Brand: Honeywell/Bosch/Pelco	2 Nos
2	Network WDR 4MP IR Dome Camera. 2.7mm Sensor. 3 Year warranty. As per the specification attached. Preferred Brand: Honeywell/Bosch/Pelco	37 Nos
3	Network WDR 4MP IR Bullet Camera. 2.7mm Sensor. 3 Year warranty. As per the specification attached. Preferred Brand: Honeywell/Bosch/Pelco	8 Nos
4	6 TB HDD Surveillance HDD. Preferred Brand: Seagate/WD. 3 Year Warranty	7 Nos
5	24 port L2 Gigabit Managed Switch. 2SFP, 300w PoE/PoE+, 3 year Warranty. As per the specification attached. Preferred Brand: Cisco/HP/Netgear/Airpro	3 Nos
6	16 port L2 Gigabit Managed Switch, 2SFP, 220w PoE/PoE+, 3 year Warranty. As per the specification attached. Preferred Brand: Cisco/HP/Netgear/Airpro	1 Nos
7	SFP Transceiver 1G Single Mode. Should be compatible to switch.	4 Nos
8	Cat6 UTP Patch cord RJ45 LSZH. 1 Meter. Preferred brand: Systimax/Molex/Panduit	49 Nos
9	HDMI Cable 5m. High speed	2 Nos
10	Wireless Mouse. HP/Dell	2 Nos
11	Cat6A RJ-45 field termination plug. As per the specification attached. Preferred brand: Systimax/Molex/Panduit	45 Nos
12	Camera junction box and other accessories	1 Lot
13	Camera Installation Charges	45 Nos
14	43" FHD Display. Preferred brand: Samsung/Sony/LG	2 Nos
15	Configuration and commissioning charges	1 Lot

Specification - Video Recording Software/Storage Hardware - 2 No.s

Sl. No.	Feature	Description
1	Form Factor	Hardware device shall be Rack mountable with its supplied kits and rails
2	VMS or NVR	Both VMS and Hardware NVR device acceptable. However, VMS provider shall supply the requisite OEM recommended Server Hardware, Storage with all licenses and accessories
3	Internal Storage	4 SATA Ports. Support upto 10TB
4	Storage Capacity	Upto 40TB.
5	RAID	JBOD, RAID0/1/5/6/10
6	Storage Configuration	Storage to be configured in RAID5 using Enterprise or Datacentre rated SATA drives from Day-1.
7	External Ports	1 USB 2.0, 1 USB 3.0
8	Playback	1/3/4/6/8/9/10/13/16/20/25/32 (maximum 3x12MP, 4x8MP, 5x5MP, 8x4MP, 9X3MP, 16X1080P, Synchronous playback)
9	Playback function	Play; Pause; Stop; Rewind; Fast play; Slow play; Next File; Previous File; Next Camera; Previous Camera; Full Screen; Repeat; Shuffle; Backup selection; Digital Zoom
10	Network Ports	2xRJ45 self adaptive 10/100/1000 BT
11	Network Throughput	Input 200Mbps and Output 200Mbps
12	Camera Support	Minimum 32 cameras; Support for 12MP, 8MP, 6MP, 5MP, 4MP and 1080P Resolution cameras
13	OS	With full professional or enterprise license as recommended by the OEM
14	Licenses	Offered NVR/NVRs shall support streams from 32 cameras at its 4MP resolution and frame rates. Hence, the offer must be loaded with 32 camera Base and per camera licenses for full features demanded in our camera tech specs
15	Capacity	The offered system must support 32 cameras on Day-1.
16	Compression	H.265, H.264, MJPEG, MPEG4.
17	Network Protocols Supported	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, IGMP, QoS, IPV4, IPV6, Multicast, ARP, UDP, SNMP, SSL, Telnet, RTMP, NFS
18	Synchronized Playback	Support for at least 16 Cameras.
19	Recording Search	Search video recordings by time/Date.
20	Backup mode compatibility	USB Device; Network;
21	Smart phone compatibility	iPhone; iPad; Android
22	Monitor Output	HDMI and VGA
23	Interoperability	Open Network Video Interface Forum (ONVIF).
24	Power supply	100-240V AC, 50-60 Hz.
25	Power Consumption	Below 25W (without HDD)
26	Operating Temperature	14°F-131°F (-10°C-55°C) 10%-90% RH
27	Allied Accessories	To be supplied alongwith all allied accessories (like power supplies, brackets, mounting kits, video cables, licenses, etc) as per project and site requirements for the full operations of the device in line with the requirements enumerated herein, even if details are not indicated in BoQ/BoM
28	Warranty	3 Year OEM
29	MAF	Manufacturer Authorization Required

Specification - Security Camera - Dome

Sl. No.	Feature	Description
1	Qty	37
2	Form Factor	Dome
3	Minimum Resolution	2560x1440
4	Site Environment	Indoor
5	Sensor Type & Size	1 / 2.7" CMOS
6	Minimum Illumination	Color: 0.002Lux@ (F2.0, ACG ON), B/W: 0Lux with IR
7	Minimum IR Range	30 Meters
8	Shutter Speed	Electronic 1s ~ 1 / 100000s
9	Angle of View	H:103.4°, V:58.1°
10	Compression	H+265, H.265 / H.264.
11	Maximum Frame Rate vs. Resolution	Main Stream: PAL: 25fps (2560x1440, 2304x1296, 1920x1080, 1280x720)
		NTSC: 30fps (2560x1440, 2304x1296, 1920x1080, 1280x720)
		Sub Stream : PAL: 25fps (704x576, 704x288, 640x360, 352x288)
		NTSC: 30fps (704x480, 704x240, 640x360, 352x240)
12	WDR	120 dB
13	Lens	2.8mm
14	Network Protocols Supported	TCP/IP, HTTP, FTP, DHCP, DNS, DDNS, MULTICAST, IPV4, NTP, UDP, Telnet, ICMP, RTP, RTSP, UpnP
15	Network Port	RJ-45 (10/100Base-T) PoE (802.3 af)
16	Audio	Mic in
17	System Comptibility	ONVIF (PROFILE S/T/G)
18	Site Mounting Requirements	Surface, Ceiling, Flush, Wall Mount, Corner Mount - as per site requirements to be provided
19	Protection	IP66
		Lightning protection
		surge protection
20	Other Preferred Features	Trigger Motion Detection
		Mask Alarm
		IP Address Conflict
		Privacy Mask
		Smart defog
		BLC
		HLC
		3D DNR
		Tripwire
Perimeter.		
21	Power Consumption	Max: 6w(12v), Max8w(PoE)
22	Web Version	Web5
23	Allied Accessories	To be supplied alongwith all allied accessories (like PoE power supplies, brackets, mounting kits, patch cords, connectors, cables, licenses, etc) as per project and site requirements, even if details are not indicated under BoQ/BoM
24	Warranty	3 Year OEM
25	MAF	Manufacturer Authorization Required

Specification - Security Camera - Bullet

Sl. No.	Feature	Description
1	Qty	8
2	Form Factor	Bullet
3	Minimum Resolution	2560x1440
4	Site Environment	Indoor
5	Sensor Type & Size	1 / 2.7" CMOS
6	Minimum Illumination	Color: 0.002Lux@ (F2.0, ACG ON), B/W: 0Lux with IR
7	Minimum IR Range	50 Meters
8	Shutter Speed	Electronic 1s ~ 1 / 100000s
9	Angle of View	H:88.2°, V:46.4°
10	Compression	H+265, H.265 / H.264
11	Maximum Frame Rate vs. Resolution	Main Stream: PAL: 25fps (2560x1440, 2304x1296, 1920x1080, 1280x720)
		NTSC: 30fps (2560x1440, 2304x1296, 1920x1080, 1280x720)
		Sub Stream : PAL: 25fps (704x576, 704x288, 640x360, 352x288)
		NTSC: 30fps (704x480, 704x240, 640x360, 352x240)
12	WDR	120 dB
13	Lens	4mm
14	Network Protocols Supported	TCP/IP, HTTP, FTP, DHCP, DNS, DDNS, MULTICAST, IPV4, NTP, UDP, Telnet, ICMP, RTP, RTSP, UpnP
15	Network Port	RJ-45 (10/100Base-T) PoE (802.3 af)
16	Audio	Mic in
17	System Comptibility	ONVIF (PROFILE S/T/G)
18	Site Mounting Requirements	Surface, Ceiling, Flush, Wall Mount, Corner Mount - as per site requirements to be provided
19	Protection	IP66
		Lightning protection
		Surge protection
20	Other Preferred Features	Trigger Motion Detection
		Mask Alarm
		IP Address Conflict
		Privacy Mask
		Smart defog
		BLC
		HLC
		3D DNR
		Tripwire
Perimeter		
21	Power Consumption	Max: 6w(12v), Max8w(PoE)
22	Web Version	Web5
23	Allied Accessories	To be supplied alongwith all allied accessories (like PoE power supplies, brackets, mounting kits, patch cords, connectors, cables, licenses, etc) as per project and site requirements, even if details are not indicated under BoQ/BoM
24	Warranty	3 Year OEM
25	MAF	Manufacturer Authorization Required

Specification - L2 Managed Switch - 24 port - 3 Nos

Sl. No.	Description
	General Requirements
1	Switch should have minimum 24x GE RJ45 ports and 2x 1GE SFP ports
2	Should be having minimum 24 (802.3af/802.3at) Power over Ethernet (PoE/PoE+) Ports with Minimum 300W power budget
3	Fanless design
4	Switching capacity of the proposed switch should be Minimum 48 Gbps
5	Packet per second capacity of the switch should be minimum 35.71 Mpps.
6	Proposed Switch should support minimum 8K MAC address storage
7	Network protocol: IEEE802.3 (10Base-T) IEEE802.3u (100Base-TX) IEEE802.3ab (1000Base-TX) IEEE802.3x (Flow control)
8	Industry Standard: EMI: FCC Part 15 CISPR (EN55032) class A EMS: EN61000-4-2 (ESD), EN61000-4-4 (EFT) EN61000-4-5(Surge)
9	Security Certificate: CE, FCC, RoHS
10	Power Required :100-240V AC, 50-60 Hz
11	Working Temperature: -10~50°C
12	Humidity : 10-90% non-condensing
13	3 year OEM warranty

Specification - L2 Managed Switch - 16 port - 1 No.

Sl. No.	Description
	General Requirements
1	Switch should have minimum 16x GE RJ45 ports and 2x 1GE SFP ports
2	Should be having minimum 16 (802.3af/802.3at) Power over Ethernet (PoE/PoE+) Ports with Minimum 220W power budget
3	Fanless design
4	Switching capacity of the proposed switch should be Minimum 32 Gbps
5	Packet per second capacity of the switch should be minimum 23.8 Mpps.
6	Proposed Switch should support minimum 8K MAC address storage
7	Network protocol: IEEE802.3 (10Base-T) IEEE802.3u (100Base-TX) IEEE802.3ab (1000Base-TX) IEEE802.3x (Flow control)
8	Industry Standard: EMI: FCC Part 15 CISPR (EN55032) class A EMS: EN61000-4-2 (ESD)、EN61000-4-4 (EFT) EN61000-4-5(Surge)
9	Security Certificate: CE、FCC、RoHS
10	Power Required :100-240V AC, 50-60 Hz
11	Working Temperature: -10~50°C
12	Humidity : 10-90% non-condensing
13	3 year OEM warranty

Specification - Cat6A Field Termination Plug

Sl. No.	Description
	General Requirements
1	Should support 10gb
2	Transmission performance: Cat.6A/Class EA Direct attach link and channels
3	Plug protection category: IP 20
4	Wiring label: TIA 568A/B & PNO
5	Solid wire: 22-26 AWG
6	Stranded wire: 22-27 AWG
7	Re-termination capability: 5 times
8	Supporting cable diameter: 6-9mm
9	Plug Housing: Zinc Alloy
10	Plug Pins: Phosphor bronze with 50u" gold plating
11	Durability: 750 mechanical cycles
12	Current rating: 1.5A
13	Dielectric withstanding voltage: 1000V DC
14	Insulation resistance: 500M Ω min.
15	Contact resistance: 20m Ω max
16	COMMERCIAL STANDARDS
17	IEC 60603-7-5
18	UL-1863
19	CSA C22.2
20	TIA-568-C.2 Cat 6A
21	TIA-1096-A
22	IEC-60603-7-51