

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

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

KERALA PUBLIC SERVICE COMMISSION

No. RA1-3/1/2023-KPSC

Thiruvananthapuram,

Dated:30/05/2023

E-TENDER NOTICE

Invitation of E-Tender for **the supply and installation of CCTV Camera at the District office of The Kerala Public Service Commission, Kozhikode**

E-Tender in one cover system is invited for Supply and installation of **CCTV Camera at the District office of The Kerala Public Service Commission, Kozhikode** from competent dealers and manufacturers for the supply and installation 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 District office of The Kerala Public Service Commission, Kozhikode	350/-	4375/-

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. : 08/23/SN
Document download/sale start date : 31/05/23
Bid submission start date : 31/05/23
Document closing date : 20/06/2023– 5.00 pm
Date & Time of opening of tender : 22/06/2023 - 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.](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 CCTV Camera NVR and other components 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, Kozhikode** 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**

List of items required for CCTV Installation at District Office, Kozhikode

Sl. No.	Item	Qty
1	8 Channel Network Video Management/ Recording Software/ Recording Hardware (Specification attached) Warranty : 3 years Preferred Brand: Honeywell/Bosch/Pelco	1 No.s
2	Surveillance Camera WDR 4MP IR Bullet Camera. 1/2.7" Sensor (Specification attached) Warranty : 3 years Preferred Brand: Honeywell/Bosch/Pelco	6 No.s
3	4 TB HDD Surveillance HDD Warranty : 3 years Preferred Brand: Western Digital/Seagate	1 No.s
4	16 port Switch. 250W PoE (Specification attached) Warranty : 3 years Preferred Brand: Netgear/D-Link/TP-Link	1 No.s
5	Cat6 UTP Cable (Specification attached) Preferred brand: Systimax/Molex/Panduit/Belden	1 box
6	Cat6A RJ-45 field termination plug (Specification attached) Preferred brand: Systimax/Molex/Panduit/Belden	6 No.s
7	24 Port Patch Panel – Unloaded (Specification attached) Preferred brand: Systimax/Molex/Panduit/Belden	1 No.s
8	Cat6 Information Outlet (Specification attached) Preferred brand: Systimax/Molex/Panduit/Belden	6 No.s
9	Blank adapter for patch panel Preferred brand: Systimax/Molex/Panduit/Belden	18 No.s
10	Cat6 UTP Patch cord RJ45 LSZH - 1 Meter (Specification attached) Preferred brand: Systimax/Molex/Panduit/Belden	6 No.s
11	Cat6 UTP Patch cord RJ45 LSZH - 2 Meter (Specification attached) Preferred brand: Systimax/Molex/Panduit/Belden	1 No.s
12	25" Medium density ISI Conduit with accessories	130 Mtr
13	Flexible Pipe	25 Mtr
14	9U Wall Mount Rack with FAN 180CFM, PDU 1.8kVA, Hardware Packet, Horizontal Cable organiser 1U PVC fully covered Manager Preferred brand: Rittal/Netrack/APC	1 No.s
15	HDMI Cable (1080p) - 5m - High speed	1 No.s
16	Wireless Mouse - Preferred brand: HP/Dell	1 No.s
17	Camera junction box and other accessories	6 No.s
18	Cat6 UTP cable laying	305 Mtr
19	25" PVC conduit laying	130 Mtr
20	Flexible Pipe laying	25 Mtr
21	RJ-45 field termination plug crimping	6 No.s
22	RJ-45 Information Outlet Crimping	6 No.s
23	Wall Mount Rack Installation	1 No.s
24	Camera Installation Charges	6 No.s
25	NVR Installation & Commissioning charges	1 LS
26	24" FHD Display Preferred brand: Dell/HP/LG/Samsung/Philips/Sony	1 No.s

Video Management/Recording Software/Hardware Specification

Sl. No.	Feature	Description of features
1	Form Factor	Hardware device shall be Rack mountable with its supplied kits and rails
2	VMS or NVR	Both VMS or Hardware NVR device acceptable. However, VMS provider shall supply the requisite OEM recommended Server Hardware, Storage with all licenses and accessories
3	Internal Storage	Minimum 1 SATA Ports. Support upto 10TB
4	Storage Capacity	Upto 10TB
7	External Ports	2x USB 2.0
8	Playback	1/3/4/5/6/7/8 (Minimum 1x8MP, 1x6MP, 1x5MP, 1x4MP, 1x3MP, 3x1080P, 4x720P 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	RJ45 self-adaptive 10/100 BT
11	Network Throughput	Input 50Mbps and Output 40Mbps
12	Camera Support	Minimum 8 cameras; Support for 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 shall support streams from 8 cameras at its 4MP resolution and frame rates. Hence, the offer must be loaded with 8 camera Base and per camera licenses for full features demanded in our camera tech specs
15	Capacity	The offered system must support 8 cameras on Day-1.
16	Compression	H.265, H.264,
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 8 Cameras
19	Recording Search	Search video recordings by time/date
21	Smart phone compatibility	iPhone; iPad; Android
22	Monitor Output	HDMI and VGA
23	Interoperability	Open Network Video Interface Forum (ONVIF)
24	Power supply	Indian Standard
25	Power Consumption	Below 10W (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

Security Camera - Specification

Sl. No.	Feature	Description of features
1	Form Factor	Bullet
2	Minimum Resolution	2560×1440
3	Site Environment	Indoor
4	Sensor Type & Size	1 / 2.7" CMOS
5	Minimum Illumination	Color: 0.002Lux@ (F2.0, ACG ON), B/W: 0Lux with IR
6	Minimum IR Range	50 Meters
7	Shutter Speed	Electronic 1s ~ 1 / 100000s
8	Angle of View	H:88.2°, V:46.4°
9	Compression	H+265, H.265 / H.264
10	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)
11	WDR	120 dB
12	Lens	4mm
13	Network Protocols Supported	TCP/IP, HTTP, FTP, DHCP, DNS, DDNS, MULTICAST, IPV4, NTP, UDP, Telnet, ICMP, RTP, RTSP, UpnP
14	Network Port	RJ-45 (10/100Base-T) PoE (802.3 af)
15	Audio	Mic in
16	System Comptibility	ONVIF (PROFILE S/T/G)
17	Site Mounting Requirements	Surface, Ceiling, Flush, Wall Mount, Corner Mount - as per site requirements to be provided
18	Protection	IP66
		Lightning protection
		Surge protection
19	Other Preferred Features	Trigger Motion Detection
		Mask Alarm
		IP Address Conflict
		Privacy Mask
		Smart defog
		BLC
		HLC
		3D DNR
		Tripwire
Perimeter		
20	Power Consumption	Max: 6w(12v), Max8w(PoE)
21	Web Version	Web5
22	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
23	Warranty	3 Year OEM
24	MAF	Manufacturer Authorization Required

L2 PoE Switch 16 port – Specification

Sl. No.	Description
	General Requirements
1	Switch should have minimum 16x FE RJ45 ports, 2x GE RJ45 ports and 2x 1GE SFP combo ports
2	Should have minimum 16 (802.3af/802.3at) Power over Ethernet (PoE/PoE+) Ports with Minimum 250W power budget
3	Switching capacity of the proposed switch should be Minimum 7.2 Gbps
4	Packet per second capacity of the switch should be minimum 5.36 Mpps.
5	Proposed Switch should support minimum 8K MAC address storage.
6	Security Certificate: CE、FCC、RoHS
7	Power Required :100-240V AC, 50-60 Hz
8	Working Temperature : -10~50°C
9	Humidity : 10-90% non-condensing
10	3 year OEM Warranty

Cat6A Field Termination Plug - Specification

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

Cat6 UTP Cable - Specification

Sl. No.	Description
	General Requirements
1	23 AWG Annealed bare solid copper, CAT-6 UTP Cable, A HDPE compound insulates the cores, with a IEC 60332-1 complied LS0H
2	PAIRS Color code: Blue / White-Blue, Orange / White-Orange Green / White-Green, Brown / White – Brown
3	Type of Conductors: 4 pair 23 AWG Conductors and star separator.
4	Cable Pull Tension Thread
5	LS0H inner sheath and HDPE outer sheath for greater protection
6	Frequency : Characterized to 250 MHz
7	Standard length: 305 Mtrs (1000 ft.)
8	Standards: UL Listed, ETL Tested & Verified
9	Gigabit Requirements': Should meet or exceed Gigabit Ethernet requirements at 100 Mtrs.
10	Insulation : Polyethylene
11	UV resistant, Suitable for outdoor Installations
12	Performance Characteristics- Category 6 EIA/TIA 568.C.2
13	ETL Verified up to 250 MHz
14	ROHS Complaint
15	ISO/IEC 11801, IEC 6074-1(Toxicity),
16	IEC 6074-2 (Acid Gas) standards

Cat6 UTP Patch Cord - Specification

Sl. No.	Description
	General Requirements
1	Standards: Should meet or exceed TIA/EIA 568B, ISO Category 6 Performance Requirements.
2	Jacket : Low Smoke Zero Halogen Sheath (LSZH), Its should have star separator
3	Boots : Transparent Boot
4	4 Pair 24 AWG stranded copper wire with star separator
5	Bend radius : 4 X O.D
6	Operating Temperature : -20 ° C to 60° C
7	Compatible for 568 A & 568 B wiring
8	Fire Propagation test : CSA FT1,IEC 60332-1,IEC61034
9	Operating Life : 750 Mating Cycles
10	Length : 1 Mtr/2 Mtr/3 Mtr/5 Mtr/10 Mtr/20 Mtr
11	UL Listed & ETL Verified
12	Standards : CAT 6- TIA-568-C.2,ISO/IEC 11801:2002
13	ROHS Compliant

Cat6 Information Outlet - Specification

Sl. No.	Description
	General Requirements
1	Contact Material : Copper Alloy
2	Contact Plating : 50 Micron Gold/100 micron Nickel
3	Dust Cover :To avoid dust contaminants and to prevent incompletely plugged patch cord, Spring Loaded Shutter inside the information outlet
4	IDV V shaped
5	Plastic Housing :Polycarbonate UL94V-0 Rated
6	Termination Cap : Has to be provided at rear of the Information Outlet.
7	Compatibility : Should be compatible with 24 port patch panel,RJ 11 & RJ 12
8	Operating Cycle : Minimum 750 Insertion Cycles
9	Standards : ETL Verified for CAT 6 Compliance
10	ISO 11801 Class E Compliant
11	EIA/TIA 568.C.2-Componnet Complaint
12	RJ 11 & RJ 12 Compatible
13	Wire Accommodation : 22-24 AWG
14	UL Listed
15	ROHS complaint

Cat6 UTP Patch Panel – Unloaded - Specification

Sl. No.	Description
	General Requirements
1	Standards : ETL Verified and CAT 6 Component Compliance.
2	Rear Cable Manager : Metal Rear Cable Manager with Perforations should be supplied along with the panel
3	Material : Cold rolled steel
4	Coating : Powder Coating
5	Compatibility: Individually removable RJ 45 Port and compatible with STP,Fibre & Coax.
6	UL Listed
7	ROHS Compliant