

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

Thiruvananthapuram,
Dated: 10 / 06/2022

E-TENDER NOTICE

Invitation of E-Tender for the supply and installation of the IP CAMERAS AND NVR at the Online Examination Centre, 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 **following materials** in accordance with respective specifications as shown in Annexure I of the Tender document.

Sl No.	Item Details	Quantity (Nos)	Cost of Tender Forms (Rs)	EMD(Rs)
1	IP Cameras	16 No:s	850/-	10,625/-
2	NVR	1 No:		

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. : 08/22/SN
Document download/sale start date : 15/06/22
Bid submission start date : 15/06/22
Document closing date : 30/06/2022– 5.00 pm
Date & Time of opening of tender : 02/07/2022- 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 15 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 and NVR shall be clearly mentioned.
2. **2 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 Regional Office of the Kerala public Service Commission, Ernakulam 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**

Minimum Technical Requirements & Functional Specifications - Security Camera - 16 No.s		
Sl. No.	Feature	Description
1	Form Factor	Mini Dome
2	Minimum Resolution	1080P (Full HD) or 2 Megapixel
3	Site Environment	Indoor; IK10 - Vandal Proof Required
4	Sensor Type & Size	1 / 2.8" 2 Megapixel progressive CMOS
5	Minimum Illumination	0.002 Lux / F1.6 (color, 30IRE), 0 Lux / F1.6 (IR ON)
6	IR Sensitivity & Switching	Onboard IR LED acceptable with IR Cut Filter based switching; Alternately, Low-Light Cameras also acceptable.
7	Minimum IR Range	30 Meters
8	Shutter Speed	Electronic 1 / 3 ~ 1 / 100000s
9	S/N Ratio	45 dB or more
10	Angle of View	H:106°, V:56°
11	Compression	H.265 / H.264 / Smart Codec / MJPEG (Sub Stream)
12	Maximum Frame Rate vs. Resolution	Main Stream: 1920 x 1080 / 1280 x 960 / 1280 x 720@ (1 ~ 25 / 30 fps). Sub Stream: 704 x 576 / 640 x 480 / 352 x 288 @ (1 ~ 25 fps); 704 x 480 / 640 x 480 / 352 x 240 @ (1 ~ 30 fps)
13	Bit Rate Control	CBR/VBR
14	WDR	120 dB
15	Security	User account and password protection HTTPS, IP Filter, Digest authentication, User access log, TLS1.2 only, AES-128 / 256, SSH / Telnet closed, sFTP by default, PCIDSS compliance
16	Digital Noise Reduction	3D DNR preferred
17	Network Protocols Supported	HTTP; HTTPs; TCP; ARP; RTSP; RTP; RTCP; UDP; SMTP; DHCP; DNS; PPPoE; IPv4/v6; QoS; UPnP; NTP; Bonjour; IEEE 802.1x; Multicast; ICMP; IGMP; TLS
18	Event Trigger	No SD card, SD card error, Capacity warning, Network disconnection, IP conflict, Illegal access
19	Network Port	RJ-45 (10/100Base-T) PoE (802.3 af)
20	Site Mounting Requirements	Surface, Ceiling, Flush, Wall Mount, Corner Mount - as per site requirements to be provided
21	Onboard Storage	Should supports 256 GB Micro SD card
22	Other Preferred Features	BLC, HLC, Audio Detection, Ultra-Low light colour view, Tripwire, Intrusion detection, region entry / exit detection. Vandal proof with at least IK10
23	Certifications	Emissions: FCC Part 15B, EN55032, Immunity: EN 50130-4, Safety: UL CSA 60950-1, EN 62368-1, RoHS: EN 50581.
24	Analytics	Motion Detection, Video Tampering, Scene Changing, Tripwire Intrusion
25	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.
26	MAF	Manufacturer's Authorization required
27	Warranty	2 Years Comprehensive OEM warranty required

Minimum Technical Requirements & Functional Specifications - Video Recorder**Video Recording Software / Storage Hardware for 16 Camera**

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	Recording Storage Capacity	Storage to be configured for 18TB usable space in RAID5 using Enterprise or Datacentre rated SATA drives for the Day-1 requirement. Should have at least 8 Hot-pluggable Hard Drive Bays, Should support upto 64TB (Inbuilt). External HDD through eSATA port.
4	PoE	PoE Power Injector (16 Nos) or PoE Switch (Min 16 Port)
5	Playback	1/4/8/16 (maximum 4-ch @ 8MP, 8-ch @ 4MP, or 16-ch @ 1080p simulateous playback)
6	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
7	Network Ports	Hardware device shall have at least one 10/100/1000 Mbps Rj45 port.
8	Network Throughput	Input 320Mbps and Output 320Mbps
9	Camera Support	Minimum 16 cameras; Support for 12MP, 8MP, 6MP, 5MP, 4MP and 1080P Resolution cameras
10	OS	With full professional or enterprise license as recommended by the OEM
11	Licenses	Offered NVR/NVRs shall support streams from 16 cameras at its full HD resolution and frame rates. Hence, the offer must be loaded with 16 camera Base and per camera licenses for full features demanded in our camera tech specs
12	Capacity	The offered system must support 16 cameras on Day-1.
13	Number of Users Supported	128
14	Event Status	Display event status upon alarm, motion, audio, upon Video loss or recovery between server and client.
15	Compression	H.265, H.264, MJPEG, MPEG4.
16	Network Protocols Supported	IPv4/v6, TCP/IP, UDP, DHCP, HTTP, DNS, NTP, RTSP, SMTP, FTP, UpnP. IP Filter, PpoE, DDNS, Alarm Server, IP Search, P2P.
17	Synchronized Playback	Support for at least 64 Cameras, in at least dual streams
18	Video Display Layout	1/4/8/9/16.
19	FIFO Support	The VMS to ensure auto deletion of aging/old files in FIFO basis or its archival based on the user settings to ensure there is no storage overload. The VMS Storage Manager to ensure that the HDD write speed is never slows down due to extra usage of allotted disk capacity.
20	Recording Search	Search video recordings by time/Date; Alarm; Motion Detection.
21	Backup mode compatibility	USB Device; Network; Internal SATA burner; eSATA Device

22	Smart phone compatibility	iPhone; iPad; Android
23	Allied Accessories	To be supplied alongwith all allied accessories (like power supplies, brackets, mounting kits, patch cords, connectors, 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
24	MAF	Manufacturer's Authorization required
25	Warranty	2 Years Comprehensive OEM warranty required