

INDIAN AUDIT & ACCOUNTS DEPARTMENT

Office of The Director General of Audit (Central), Kolkata



8, Kiran Shankar Roy Road, Kolkata-700 001

PREVIEW OF TENDER

TENDER REFERENCE NO:Record-I/C/Purchase/CCTV System/2020-21 dated 28.12.2020

DATE OF ISSUE OF TENDER DOCUMENT: 28.12.2020

LAST DATE FOR RECEIPT OF TENDER DOCUMENT: 04.01.2021 at 1.00 pm TIME AND DATE OF OPENING OF THE TENDERS: 04.01.2021 at 2:00 pm

PLACE OF OPENING OF THE TENDERS:O/o the D.G.A(C),Kolkata,8,Kiran Sankar Roy Road, G.I.Press Bldg. (East

wing), Kolkata: 700-001

NOTICE INVITING TENDER

Office of the Director General of Audit (Central), Kolkata invites sealed quotations for supply/installation of following items as per the specification given below:-

SI. No.	ITEM	Make	UNIT	Specification
1	1/4 "Cmos, 4 MP IP Based IR Dome Camera with, upto 20 Mtr distance compatible with PoE & 12V DC		25	Annexure-II
2	32 Channel IP Network Video Recorder (NVR) with 1080p Real-time Preview (HDMI/VGA) & H.264 dual-stream Video Compression with support Surveillance with 4 SATA HDD slot USB 2.0 HDMI VGA having connectivity.	`	1	Annexure-II
3	6 TB Surveillance HDD for Record. (approx 30 days)		2	Compatible with the system
4	Armoured with Stainless steel Sheathing CAT6 Video cable with connectivity to quoted NVR	Any	1220 Mtrs (approx)	Annexure-II
5	PoE + Surveillance Switch, 24-port switch for efficient network management	reputed company	2	Annexure-II
6	WP PVC Joint Box with Lock & Key		25	Compatible with the system
7	32" Commercial Display for Live Display.		1	Compatible with the system
8	Networking Cabinet 4U with accessories		1	Annexure-II
9	RJ45 Connectors & Male-Female Power Jack.		60	
10	ISI Marked PVC Pipe, Flexible Pipe, Saddle, etc. (The pipe quantity mentioned is an estimate value		1000 Mtrs. (approx)	Compatible with the system

The aforesaid items will have to be supplied/installed in the premises of Office of the Director General of Audit, Central, Govt. of India Press Building, 8, Kiran Shankar Ray Road, Kolkata-700001 as per detailed terms and conditions (Annexure-I) and specifications in Annexure-II.

Bidders should furnish the duly filled tender certificate (Annexure-III), failing which tender will be cancelled.

Sealed quotations, super scribed as "Procurement, Installation, Testing and Commissioning of CCTV cameras and surveillance systems", are invited and addressed to the Dy. Director (Administration),Office of the Director General of Audit(Central), Kolkata-700001, which must reach latest by 1.00 pm on 04.01.2021 by hand/by post in the tender box located on 1st floor to this office. The Bids shall be opened by the purchase committee in chamber of Dy. Director (Administration),O/o the Director General of Audit, Central, Govt. Of India Press Building,8,Kiran Shankar Ray Road, Kolkata-700001 on 04.01.2021 at 2:00 pm and in the presence of such bidders who may wish to be present, maintaining the protocol of COVID 19. The Competent Authority reserves the rights to reject any or all the quotations without assigning any reason.

Senior Audit Officer/Record

ANNEXURE-I

TERMS & CONDITIONS:-

- The Bidder should be registered with the Income Tax, Goods & Service Tax Department. Supporting
 documents viz. Copies of Income tax Registration (PAN) and Goods & Service Tax registration shall be
 required to be submitted with the bid.
- 2. Bidders should be Authorized Dealer/Distributor of a reputed brand, who may fulfill other terms & conditions mentioned below and conforming the specifications as stated in the Annexure-II.
- 3. Tenderer should quote rate on 10 items separately in the same quotation. Bid price should be inclusive of all taxes, levies, delivery charges etc. No subsequent upward revision in rate(s) shall be accepted by this office. The bid price of each item should commensurate with the prevailing market rate for such items. Bidders are requested to visit the office to see the installation places on ground floor, 1st floor and 2nd floor of this office and quote the rate required for the items stated in Annexure-II.
- 4. Brochure of all the products quoted with technical specifications is mandatory.
- 5. Bidder/OEM (Original Equipment Manufacturer) should submit technical specification of their own products.
- **6.** Bidders are requested to provide valid email IDs, contact numbers and other information. The same should be clearly written/ typed without any error. Failure of any communication due to invalid email ID/ phone will not be the responsibility of this office.
- Each paper of bidding document should be signed and stamped by the bidder or by his/her authorised signatory. The envelope containing the tenders (quotations) should be sealed and super scribed as "

 Procurement, Installation, Testing and Commissioning of CCTV cameras and surveillance systems".
- 7. Bidders shall not be permitted to withdraw their offer or modify the terms & conditions after submission of bidding document.
- **8.** L1 bidder must show the sample item/machine conforming the specification specified in **Annexure-II** as and when it will be declared by the office.
- 9. The period of validity of the quoted rate should be for a minimum period of 60 days from the date of closing of quotation.
- **10.**The competent authority of O/o the Director General of Audit, Central, Kolkata reserve all rights to reject any bids including of those bidders who fail to comply with instruction without assigning any reason whatsoever and does not bind itself to accept the LOWEST or any specific bids.
- **11.Location of Supply:** All the items will have to be supplied/installed in the ground floor, 1st floor, 2nd floor in the premises of the Office of the Director General of Audit, Central, Kolkata, Govt. of India Press Building, 8, Kiran Shankar Ray Road, Kolkata-700001 as per the terms and conditions given herein.
- 13 Terms of Payment: 100% after delivery and verification of items at specified location thereon. In this regard an <u>E-payment mandate form</u> will be issued by this office. All disputes and differences arising out or in connection with this tender/contract shall be subject to the exclusive jurisdiction of courts at Kolkata.TDS may be deducted as per extant rules/act.

Senior Audit Officer/Record

Annexure-II

A. 1/4 "Cmos, 4 MP IP Based IR Dome Camera with, upto 20 Mtr distance compatible with PoE & 12V DC:

DC.			
Camera		Data streamin	ng Event data
Image sensor	Fixed focus, fixed iris	Built-in installation aids	Pixel counter
	1/3" progressive scan RGB CMOS	mistanation alus	
Lens	2.8 mm, F2.0	Comonal	
		General	Aluminum and
	Horizontal field of view: 106° Vertical field of view: 59°	Casing	plastic casing Color: White NCS S 1002-B
Minimum illumination	0.25 lux at 50 IRE F2.0		For repainting instructions of cover ring, see axis.co
		Sustainability	PVC free
Shutter speed	1/32500 s to 1/5 s	_	70 [®] recycled plastics
Camera angle	Pan: ±105°	nea.	
adjustment	Tilt: ±85° Rotate: ±175°	Mounting	Recessed in ceiling or wall.
			Camera module compatible with recessed back box of AXIS M3011 and AXIS M3014 Network Cameras.
Video Video	(MPEG-4 Part 10/AVC) Main and High	Memory	512 MB RAM, 512 MB Flash
compression	Profiles (MPEG-H Part 2/HEVC) Main Profile Motion JPEG	Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 1 Typical 2.8 W, max 3.7 W
		Connectors	Shielded RJ45 10BASE-T/100BASE-TX PoE
Resolution	1920x1080 (1080p) to 320x240	Storage	Company for
		Storage	Support for microSD/microSDHC/microSDXC
Frame rate	25/30 fps with power line frequency 50/60 Hz		card Support for SD card encryption Support for recording to network-attached storage (NAS) For SD card and NAS
Video stream	Video streaming Multiple, individually configurable streams in H.264, H.265 and Motion JPEG		recommendations see axis.com
	Axis Zipstream technology in H.264 and H.265 Controllable frame rate and	Operating	0 °C to 45 °C (32 °F to 113 °F)
	bandwidth VBR/MBR H.264/H.265	conditions	Humidity 15%85@ RH (non-condensing)
Viulti-view	2 individually cropped out view areas in full frame rate	Storage Hi conditions	-40 °C to 65 °C (-40 °F to 149 °F) umidity 5-9詞 RH (non-condensing)
streaming			
Image settingsCompression, color, brightness, sharpness,		Approvals	EMC
	contrast, local contrast, white balance,		EN 55032 Class B, EN 55024, EN 61000-6-1, EN 61000
	exposure control, text and image overlay, mirroring of images, privacy masks WDR: up to 105 dB depending on scene Rotation: 0°, 90°, 180°, 270° including Corridor Format		6-2, FCC Part 15 Subpart B Class A and B, ICES-003 Class B, VCCI Class B, RCM AS/NZS CISPR 32 Class B, KCC KN32 Class B, KN35
Pan/Tilt/Zoom	Digital PTZ	-	Safety IEC/EN/UL 62368-1, IS 13252
Network			Environment
Security	Password protection, IP address filtering, HTTPS ^a encryption, IEEE 802.1x (EAP-TLS) ^a network access control, digest		IEC 60068–2–6, IEC 60068–2–27, IEC 60068–2–2, IEC 60068–2–14
	authentication, user access log, centralized		Network
	certificate management, brute force delay protection, signed firmware		NIST SP500-267
		Dimensions	Visible height outside ceiling/wall: 36 mm (17/16

Layer J Dilloci v, protocols FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnPTM, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, LLDP, MQTT Weight System integration Include Open API for software integration, including Application accessories Programming VAPIX® and AXIS Camera Application Optional Interface Platform; specifications at axis.com AXIS accessori Video Hosting System (AVHS) with One-Click es Connection ONVIF® Profile G, ONVIF® Profile S, and ONVIF® Profile T, specification at onvif.org **Analytics** Included Video Motion Detection, active tampering alarm Video Digital Autotracking, Fence Guard, Motion Guard, management software Occupancy Estimator, Direction Detector, Tailgating Detector, Random Selector **Support for Camera Application Platform** enabling installation of third-party applications, Event triggers Analytics, virtual inputs through API, edge storage events Event actions Record video: SD card and network share Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share, and email

> Pre- and post-alarm video or image buffering for recording or upload Notification: email, HTTP, HTTPS, TCP, and

SNMP trap Overlay text

5-year warranty,

Warranty

91 mm (3 9/16 in) Diameter cut-out in ceiling/wall: 72 mm (2 13/16 in) Height inside ceiling/wall: 79 mm (3 1/8 in)

(ht 350 g (0.8 lb)

Installation guide, Windows® decoder 1-user license

Black cover

ring View protector

Smoked dome AXIS Surveillance microSDXC™ Card

For more accessories, see axis.com

Companion, Camera Station, video management software from Application Development Partners available

B. 32 Channel IP Network Video Recorder (NVR) with 1080p Real-time Preview (HDMI/VGA) & H.264 dual-stream Video Compression with support Surveillance with 4 SATA HDD slot USB 2.0

HDMI VGA8

Processor: Intel® Core™ i3

Memory: 8 GB

Storage: Hot swappable Enterprise Class HDD

Total HDD slot: 4

Out-of-the-box storage: 12 TB after RAID 5

Out-of-the-box capacity without RAID: 16 TB (4x4 TB)

RAID Factory RAID level: 5 RAID levels: 0, 1, 5, 6, 10

Power Up to 2 x 350 W hot-plug redundant power supplies(100 - 240 V AC, 50/60 Hz, 4.8 - 2.4 A)

Connectors

Front side:1x USB 2.0 Rear side:2x USB 2.0 2x Ethernet (RJ45) 1 GbE

1x VGA

1x Serial port

Video

Recording Qualified for recording up to 48 video channels with a total recording rate up to 384 Mbit per second.

General:

Operating system Microsoft® Windows® 10 IoT Enterprise SAC

Built-in operating system recovery: yes Operating system drive: 240 GB SSD

Operating conditions:

10 °C to 35 °C (50 °F to 95 °F)

Humidity 20-80% RH (non-condensing)

Storage conditions: -40 °C to 65 °C (-40 °F to 149 °F)

Approvals EMC:

EN 55032 Class A, EN 55024, EN 61000-3-2, EN 61000-3-3,

FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A),

RCM AS/NZS CISPR 32 Class A, VCCI Class A, KC KN 32 Class A,

KC KN 35

Safety:

IEC/EN/UL 60950-1, NOM, BSMI, EAC

Dimensions 596 x 484 x 43 mm (23.47 x 19.06 x 1.7 in)approx, 1U chassis

Weight 13.5 kg (approx)

Included accessories:

Rack rails and power cords

Warranty 5-year warranty

C. Armoured with Stainless steel Sheathing CAT6 Video cable with connectivity to quoted NVR:

Outer Jacket Ripcord	Yes					
OVERALL NOMINAL DIAMETER:						
Overall Nominal Diameter	6.1mm					
MECHNICAL CHARACTERISTICS:						
Operating Temperature Range	-202To + 752					
Bulk Cable Weight	65kg/km					
Max. Recommended Pulling Tension	180 N					
Min. Bend Radius (Install)	13.0mm					
APPLICABLE SPECIFICATION AGENCY COMPLIAN	CE:					
APPLICABLE STANDARDS:						
NEC/(UL) Specification	CM					
NEC Articles	800					
CEC/C(UL) Specification	CM					
IEC Specification	11801 Category 6					
EU RoHS Compliant (Y/N)	Υ					
TIASpecification	568-C.2 Category 6					
Other Specification	NEMA WC-63.1 Category 6, UL verified to					
	Category 6					
FLAME TEST:						
UL FlameTest	UL1685 UL Loading					
SUITABILITY:						
Suitability –Indoor (Y/N)	Υ					
ELECTRICAL CHARACTERISTICS:						
Nom. Mutual Capacitance @ 1 KHz	5.6 nF/100m					
MaximumCapacitance Unbalance	330 pF/100m					
Nominal Velocity of Propagation	70 %					
Maximum Delay @ 100 MHz	538 ns/100m					
Maximum Delay Skew	45 ns/100m					
Maximum Conductor DC Resistance @ 20 Deg.C	9.38 Ohms/100m					
NominalConductor DC Resistance @ 20 Deg.C	6.90hms/100m					
Maximum DCR Unbalance @ 20 Deg.C	5 %					
Characteristic Impedance	100 ± 15 Ohms					
Maximum Intended Operating Voltage	80 V RMS					

D. PoE + Surveillance Switch, 24-port switch for efficient network management:

Network function: DHCP server included VLAN

Security: Password protection, IP address filtering, HTTPS encryption, IEEE 802.1X network access

control, ACL, Private VLANs, DHCP Snooping

Supported protocols:

IPv4, IPv6, HTTP, HTTPS, QoS, Bonjour, UPnP, SNMP v1/v2c/v3, DNS, NTP, TCP, UDP, IGMP,

ICMP, DHCP, ARP, SSH, STP, RSTP, MSTP, LLDP, LLDP-MED, TFTP, SMTP, BPDU

Throughput: 38.7 Mpps Switching capacity: 52 Gbps Jumbo frames: 9216 Bytes

General
Casing: Metal
Color: Black

Dimensions WxDxH: 442 x 211 x 44 mm (17.4 x 8.31 x 1.73 in)

Weight: 3.2 kg (approx)

Power requirements: 100-240 V AC, 50/60 Hz

PoE class: Power over Ethernet Plus (PoE+) IEEE 802.3at Type 2 Class 4

PoE output: Port 1 to 24: Up to 30 W

Power budget: 370 W

Connectors PoE ports: RJ45 10Base-T/100Base-TX/1000Base-T (24x)
Uplink Combination port: RJ45/SFP 100Base-TX/1000Base-T (2x)

Power

Power connector port: Surge protection 6kV on all network ports and AC lines

Operating conditions: 0 °C to 50 °C Humidity 10–90% RH (non-condensing)

Approvals EMC EN 55032 Class A

EN 55024

FCC part 15 Subpart B Class A

VCCI Class A

RCM AS/NZS CISPR 32 Class A

ICES-003 Class A

Safety

IEC/EN/UL 60950-1

EN 62368-1

EAC

CE, ITE, JATE, BSMI

Warranty 5-year warranty

E. Networking Cabinet 4U with accessories:

Usability- Network Switches/Routers/Firewall/ DVR/NVR/Audio- Visual Equipment/Low Depth Servers

- Front Door- Glass Door With Key Lock
- Side Panels- Fixed Welded/bolted with Top/Base Frame
- Cable Entry Cut-Top/ Bottom
- 2 Pair Heavy Duty (1.5mm) Vertical Mounting Rail
- Cooling Option- 2 fan Provision mounted on Top Panel
- Load Bearing Capacity up to 25 -30 KG
- Construction- Dismantle/Welded Construction Overall 1.0mm Thick (20 gauge), Load Bearing angles are 1.6 MM
- Power Distribution Unit- 6 Socket 5 & 15 AMP Horizontal
- Cable Management- Horizontal Metal & PVC
- Fix Shelf/Cantilever Shelf- 255mm to 600mm
- Color- light Grey Powder Coated (RAL 7035) and RAL 9005 Black (as per Requirement)

F. Others:

- (i) Set up of wired/ wireless network: All sorts of wired and wireless network in respect of installation/commissioning of items/goods (stated above) must be provided to this office.
- (ii) Cabling & networking: An organized cabling with conduit facility to be provided for the CCTV system as desired by this office.
- (iii) Onsite warranty of all the items minimum one year/as stated in Annexure-II should be provided.

Senior Audit Officer/Record

Mall:

Annexure-III Tender Certificate

10							
The	Dy. Director (Admn.)						
0/0	the D.G.A (C), Kolkata						
Gov	rt. Of India Press Building (East Wing),						
8, Ki	iran Sankar Roy Road						
Kolk	kata-700001						
Mac	dam,						
	With reference to your ter	nder Notice No.					
_		dated	I am to				
sub	bmit my tender for Procurement,	Installation, Testing and Commissioning of CCTV	cameras				
an	and surveillance systems as specified in the Notice Inviting Tender.						
	I further affirm that I have	e read and fully understood the tender notice and	d agree to				
abid	de by all the terms and condition	is and laid therein, which are being signed in tol	cen of my				
		the terms and conditions (Annexure-I) or failed to					
tech	nnical specifications (Annexure-II)	to carry on the contract satisfactorily, I will be lia	able to be				
	ninated from contract/supply						
	osure:						
1.	Statement of quoted value of contr	ract.					
2.							
3.	Copy of Trade License.						
4.	Copy of PAN Card						
5.	Copy of GST Registration certificate) <u>.</u>					
Dat	ted:	Signature					
		Name of Tenderer					
		M/s					