



CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY (C-DIT)

Chitranjali Hills, Thiruvallam, Thiruvananthapuram-27

Phone: 0471-2380910, 912

No. C-DIT/01/CCTV-DPOKZD/2024-25/T582

Date: 10.01.2025

TENDER NOTICE

SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND MAINTANANCE OF CCTV SURVEILLANCE CAMERAS

Sealed tenders are invited for the **Supply, Installation, Testing, Commissioning, and Maintenance of CCTV Surveillance Security System along with Providing Centralized Monitoring Facility at District Planning Office, Kozhikode**. The envelopes containing the tender should bear the superscription *“Tender for the Supply, Installation, Commissioning, and Maintenance of CCTV Surveillance System at Kozhikode”* and should be addressed to The Registrar, Centre for Development of Imaging Technology (C-DIT), Chithranjali Hills, Thiruvallam, Thiruvananthapuram 695027. Intending tenderers may submit the tenders on their own papers by post/hand. Last date for receipt of tenders is **20.01.2025, 03.00 PM**. Late tenders will not be accepted. The tenders will be opened at **03.10 PM on the same day** in C-DIT office in the presence of the tenderers or their authorized representatives who may be present at that time. Details of the requirements and the conditions governing the supply can be downloaded from our website www.cdit.org

Thiruvananthapuram

10.01.2025

SD/-

REGISTRAR



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TENDER TERMS

SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND MAINTANANCE OF CCTV SURVEILLANCE CAMERAS

GENERAL TERMS AND CONDITIONS

- a) This Tender is invited for the **Supply, Installation, Testing, Commissioning, and Maintenance of CCTV Surveillance Security System along with Providing Centralized Monitoring Facility at District Planning Office, Kozhikode**, one of the projects undertaken by C-DIT.
- b) C-DIT reserves the right to cancel any or all tenders without assigning any reason whatsoever

ELIGIBILITY CRITERIA OF BIDDER

- a) Bidder should be a registered company or registered business firm as per Indian Law, doing similar business.
- b) The bidder should have a registered office in Kerala (Documentary Evidence should be attached) and a well-equipped authorised service centre (Preferably at Kozhikode or Palakkad).
- c) Bidders should have valid GST registration.
- d) Bidders should have PAN allotted to him by IT Department.
- e) Bidder shall not be blacklisted by any of the department/organizations of the Govt. of India/State Govt/PSUs.
- f) To qualify for award of the work, the intending tenderer must have an experience in successfully completed at least three orders of similar nature

having contract value not less than 1.5 lakh each during last 2 years.

(Documents should be attached)

SCOPE OF WORK

To identify integrators/ contractors for undertaking the work for the Supply, Installation, Testing, Commissioning, and Maintenance of CCTV Surveillance Security System along with Providing Centralized Monitoring Facility **at District Planning Office, Kozhikode.**

SPECIAL CONDITIONS FOR THIS WORK

1. It is mandatory for the bidder to deploy qualified professionals to install, commission & maintain the equipment, as defined under scope of work.
2. **The bidders shall not offer products of brands which are having any type of ban by government of India /Government e-Market place or any other state government from doing business in India/ participating government tenders.**
3. The successful bidder should supply all equipment/ materials required to execute the work in the respective sites as per the Bill of Material quoted.
4. The successful bidder should install CCTV surveillance system components as per the specifications prescribed in the tender document and should install the cameras in the Specified locations detailed in **Annexure-1** of this document.
5. **All the Cameras have to be cabled by UTP CAT-6 cables inside the Buildings and STP CAT6 cable for outside cabling and connected to PoE Switch using structured cabling for the LAN. Proper conduit as per the specification should be provided.**
6. The successful bidder shall carry out the necessary civil and electrical works to install the entire solution.
7. The bidder is responsible to perform the highest quality of workmanship, including ensuring aesthetics while executing this project. The bidder should ensure that the cables and equipment are placed with proper routing of cables keeping the aesthetics of the site environment intact.
8. The Camera Video feeds have to be transmitted 24X7 and should be able to view in the Monitor already installed there. (through Mobile/ Tab if required).

9. The work includes the installation of cameras for proper surveillance coverage at each location. The camera locations are mentioned in this document, however, the locations at the time of installation may change based on the site requirement.
10. The technical specifications mentioned in this document are the minimum suggestive specifications. The vendor not meeting these minimum suggestive technical specifications are liable to be rejected.
11. **Bidder should survey and evaluate the site conditions, if necessary, before submitting offers and are responsible to supply and install the surveillance system including all necessary cabling, conduits, wiring and other related accessories.**
12. **The bidder shall ensure three years comprehensive warranty as per this document to all equipment, parts supplied including all works associated with the project from the date of successful User Acceptance Test.**
13. **The bidder should submit MAF - Manufacturer's Authorization Form for the Cameras and NVR.**
14. Successful bidder should provide training to the team identified by the user for operation of the CCTV System and handhold on job.
15. The bidder shall handover all software products license keys/ passwords/ softwares/ installation files including user manual and all necessary documentation to C-DIT.

REQUIREMENT SPECIFICATIONS

1.HARDWARE COMPONENTS- Active Components

SI No	Item requirement	Quantity
1	4MP fixed IP Bullet/Dome Camera	7 Nos
2	5MP Varifocal IP Bullet/ Dome Camera	1 Nos
3	4PORT POE Switch	2 Nos
4	16 channel NVR	1 Nos
5	Surveillance HDD 8TB	2 Nos
6	32" Full HD LED TV	1 Nos
7	1KVA UPS with external Battery	1 Nos

2.HARDWARE COMPONENTS- Passive Components

SI No	Item requirement	Quantity
1	4U Rack with PDU	1 No
2	2U Rack with PDU	1 No
3	STP Cable with conduits	275 Mtr
4	Other Electrical accessories	Lot

2. Technical Specification

1. 4MP Fixed IP Bullet/Dome Camera

Lens Type	3.6mm
Image Sensor:	1/3" 4MP Progressive Scan CMOS or better
IR Distance	Up to 30m or better
WDR	120dB
Video Compression	H.265; H.264+; H.264; H.264B; MJPEG
Certification	(STQC -Preferred),CE, FCC,BIS
Interoperability standard	ONVIF
Starlight Technology	Enabled

SD card	256GB or higher
OEM Warranty	3 Year

2. 5MP Varifocal IP Bullet Camera

Image Sensor	1/2.7" 5MP Progressive scan CMOS or higher
Lens Type	Motorized lens
Lens	2.7 mm-13.5 mm
Video Compression	H.265;H.264+; H.264; H.264H; H.264B; MJPEG
WDR	120 dB
IR	60 Mtr
Micro SD	Micro SD card (128 GB or higher)
Weatherproof Standard	IP67
Certification	(STQC -Preferred) BIS,CE ,FCC
Interoperability standard	ONVIF
Starlight Technology	Enabled
SD card	256GB or higher
OEM Warranty	3 Year

3. 4 Port PoE Switch

Ethernet Ports	Ports 1 through 4: 10/100/1000 (PoE), RJ45 Ports 5 and 6: 10/100/1000
Standards Compliance	IEEE802.3, IEEE802.3u, IEEE802.3x
OEM Warranty	3 Year

4. 16 Channel NVR

IP Camera Input	16 channel
Video Output	1-channel VGA, 1-channel HDMI video output.
Compression	H.265; Smart H.264+; H.264; MJPEG
Resolution	32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 5 MP; 4 MP; 1080p; 720p; D1; CIF; QCIF
Hard Disk	2SATA Port , up to 10 TB each
Network Bandwidth	160 Mbps incoming,160 Mbps outgoing
Certification	(STQC -Preferred) , BIS, CE , FCC
Interoperability standard	ONVIF
OEM Warranty	3 Year

5.Surveillance HDD

Form Factor	3.5inch
Capacity	8TB
Recording Technology	CMR
Cache (MB)	256 or higher
Interface	SATA 6Gb/s
OEM Warranty	3 Year
Preferred Brand	Seagate/WD Purple/Toshiba

6. 32" Full HD LED TV

Resolution Standard	Full-HD
No. of HDMI port	2

No. of USB Port	2
No. of speakers	2
RJ45 Port	1
Mounting accessories	With sufficient wall mounting accessories
OEM Warranty	3 Year
Preferred Brand	Samsung/LG/Panasonic/Sony

7. 1kVA UPS with external Battery

Capacity	1kVA true online
Input voltage	180-280v AC single phase
Output voltage	Single phase 230 AC+-1%
Frequency	50Hz
Overall efficiency	Greater than 85%
Wave form	Sine wave
Harmonic distortion	Less than 5% for the full load
Indications	Mains on, Load on battery, Inverter on/trip Battery level, Load level, Inverter over load
Battery type	Lead acid/ tubular (warranty 4 years)
Battery VAH	2000VAH
Bypass	Static/automatic
UPS Warranty	3 years
Preferred brand	APC/Hykon/Microtek

OTHER TERMS AND CONDITIONS

1. The bidders will be responsible for effecting supply to the entire satisfaction of the undersigned or his authorized representatives.
2. **C-DIT reserves the right to split the quantity of items to be supplied among one or more bidders, at the sole discretion.**
3. The undersigned does not bind himself to accept the lowest tender and reserve himself the rights of accepting the whole or any part of the tender and the bidder shall be bound to supply the accepted item at the rates quoted.
4. No advance payment will be made against supplies.
5. **The rate quoted by the bidder shall be inclusive of all charges.** Rates quoted by the bidder shall be valid for a period of six months from the date of opening of the tender.
6. **The rate should be quoted for the unit shown in the list including GST and tenders which do not indicate this essential information will not be considered.**
7. **The bidders shall submit the rate in "FORM A" in a sealed envelope.** The tenders which do not indicate price information for all the listed items in the tender will not be considered.
8. The rate quoted for the materials/services shall be firm and no enhancement will be allowed under any circumstances.
9. C-DIT reserve the right to cancel any or all tenders without assigning any reasons whatsoever.
10. Performance Bank Guarantee (PBG)/Security Deposit: The Bidder, in the event of an order, should furnish a bank Guarantee from an Indian Schedule/Nationalized Bank at no extra cost in a Performa prescribed by C-DIT for an amount equivalent to 5% (Five percent) of the value of the contract. The PBG shall be valid for period of 12 months from the date of commissioning of CCTV.
11. Agreement: The Successful bidder has to enter an agreement with C-DIT in Rs.200 worth non judicial stamp paper immediately on getting confirmed work order.

- 12. Authority:** The authority for the acceptance of the tender rests exclusively with the C-DIT. The C-DIT does not undertake to accept the lowest or any particular tender or to assign any reason whatsoever for the rejection of any tender.
- 13.** At any time prior to the deadline for submission of tenders, the C-DIT may, for any reason deemed fit by it, modify/amend the tender documents by issuing suitable amendment(s)/ corrigendum's to it. Corrigendum to this tender shall be published in the site www.cdit.org. Prospective bidders are advised to regularly visit the website: www.cdit.org to keep track of corrigendum, if any.
- 14. In case of doubt:**
If the bidder has any doubt on technical specifications or on terms & conditions stipulated above, please contact **Sri Vinod N, HOD (SSD), in Mobile No: 9895788233**
- 15. The last date for submission of tender 20.01.2025, 03.00 PM.**
The tender will be opened on the same day at 03.10 PM

Sd/
REGISTRAR, C-DIT
Dated **10.01.2025**



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ANNEXURE 1

Proposed Locations and Solutions

District Planning Office

- One 4MP fixed IP Dome camera should be installed inside the Office main hall facing main door on the first floor.
- One 4MP fixed IP Dome camera should be installed inside the Office main hall facing towards Office area on the first floor.
- One 4MP fixed IP Dome camera should be installed outside the main hall of the Office to viewing the corridor on the first floor.
- One 4MP fixed IP Dome camera should be installed outside the Office main hall facing towards the computer room on the first floor.
- One 4MP fixed IP Dome camera should be installed in the building wall of the ground floor to viewing the main door
- One 5MP Varifocal IP Dome/bullet camera should be installed in front of the building to cover the main gate.
- One 4MP fixed IP Dome/bullet camera should be installed in front of the main building to cover car porch.
- One 4MP IP Dome/Bullet camera should be installed outside of the main building to cover right side car porch.
- Two 4 port PoE switch should be installed to distribute the internet connection.

MONITORING Centre

- One NVR with Surveillance HDD should be installed in a 4U rack in the District Planning Officer's Room

One 32" Full HD LED Television should be installed at the monitoring centre.



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COMPLIANCE STATEMENT

Compliance statement of technical specification required for the items listed below. Technical compliance of every item should be marked, and in case of any deviation, it shall be entered in the Remarks column. The bidder must furnish the make and model of the product quoted without fail.

1. 4MP Fixed IP Bullet/Dome Camera

Parameter	Specification	Compliance (Yes/No)	Deviations if any
Lens Type	3.6mm		
Image Sensor:	1/3" 4MP Progressive Scan CMOS or better		
IR Distance	Up to 30m or better		
WDR	120dB		
Video Compression	H.265; H.264+; H.264; H.264B; MJPEG		
Certification	(STQC -Preferred),CE, FCC,BIS		
Interoperability standard	ONVIF		
Starlight Technology	Enabled		
SD card	256 GB or higher		
OEM Warranty	3 Years		

2. 5MP Varifocal IP Bullet Camera

Parameter	Specification	Compliance (Yes/No)	Deviations if any
Image Sensor	1/2.7" 5MP Progressive scan CMOS or higher		
Lens Type	Motorized lens		
Lens	2.7 mm-13.5 mm		
Video Compression	H.265;H.264+; H.264; H.264H; H.264B; MJPEG		
WDR	120 dB		
IR	60 Mtr		
Micro SD	Micro SD card (128 GB or higher)		
Weatherproof Standard	IP67		
Certification	(STQC -Preferred) BIS,CE ,FCC		
Interoperability standard	ONVIF		
Starlight Technology	Enabled		
SD card	256GB or higher		
OEM Warranty	3 Years		

3. 4 Port PoE Switch

Parameter	Specification	Compliance (Yes/No)	Deviation if any
Ethernet Ports	Ports 1 through 4: 10/100/1000 (PoE), RJ45 Ports 5 and 6: 10/100/1000		

Standards Compliance	IEEE802.3, IEEE802.3u, IEEE802.3x		
OEM Warranty	3 Years		

4. 16 Channel NVR

Parameter	Specification	Compliance (Yes/No)	Deviations if any
IP Camera Input	16 channels		
Video Output	1-channel VGA, 1-channel HDMI video output.		
Compression	H.265; Smart H.264+; H.264; MJPEG		
Resolution	32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 5 MP; 4 MP; 1080p; 720p; D1; CIF; QCIF		
Hard Disk	2SATA Port, up to 10 TB each		
Network Bandwidth	160 Mbps incoming,160		
Certification	(STQC -Preferred), BIS, CE, FCC		
Interoperability standard	ONVIF		
OEM Warranty	3 Year		

4. Surveillance HDD

Parameter	Specification	Compliance (Yes/No)	Deviations if any
Form Factor	3.5inch		
Capacity	8TB		

Recording Technology	CMR		
Cache (MB)	256 or higher		
Interface	SATA 6Gb/s		
OEM Warranty	3 Year		
Preferred Brand	Seagate/WD Purple/Toshiba		

6. 32" Full HD LED TV

Parameter	Specification	Compliance (Yes/No)	Deviations if any
Resolution Standard	Full-HD		
No. of HDMI port	2		
No. of USB Port	2		
No. of speakers	2		
RJ45 Port	1		
Mounting accessories	With sufficient wall mounting accessories		
OEM Warranty	3 Years		
Preferred Brand	Samsung/LG/Panasonic/Sony		

7. 1kVA UPS with external Battery

Parameter	Specification	Compliance (Yes/No)	Deviations if any
Capacity	1kVA true online		
Input voltage	180-280v AC single phase		

Output voltage	Single phase 230 AC+- 1%		
Frequency	50Hz		
Overall efficiency	Greater than 85%		
Wave form	Sine wave		
Harmonic distortion	Less than 5% for the full load		
Indications	Mains on, Load on battery, Inverter on/trip Battery level, Load level, Inverter over load		
Battery type	Lead acid/ tubular (warranty 4 years)		
Battery VAH	2000VAH		
Bypass	Static/automatic		
UPS Warranty	3 years		
Preferred brand	APC/Hykon/Microtek		

Name of the Bidder

Address:

**Mobile No:
e-mail id**

**Date
Bidder**

Office Seal

Signature of the



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FORM - A

COMMERCIAL BID

Quote No.

Date:

Sl No	ITEM	QTY	UNIT RATE (Incl. GST)	AMOUNT (Incl. GST)
1	Supply and Installation of 4MP fixed IP Bullet/Dome Camera (As per tender Specification)	7Nos		
2	Supply and Installation of 5MP Varifocal IP Bullet/ Dome Camera (As per tender Specification)	1No		
3	Supply and Installation of 16 channel NVR (As per tender Specification)	1 No		
4	Supply and Installation of 4PORT POE Switch (As per tender Specification)	2 No		
5	Supply and Installation of Surveillance HDD 8TB (As per tender Specification)	2 No		
6	Supply and Installation of 32" Full HD LED TV (As per tender Specification)	1 Nos		
7	Supply and Installation of 4U Rack with PDU (As per tender Specification)	1 No		
8	Supply and Installation of 2U Rack with PDU (As per tender Specification)	1 No		

9	Supply and Installation of 1KVA UPS with external Battery	1 No		
10	Supply and Laying of STP Cable with Conduit	275 Mtr		
11	Supply and Installation of Other Electrical accessories	Lot		
	TOTAL			

Bidder Name:

Address:

Mobile No:

e-mail id:

Signature

Date

Office Seal