



CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY (C-DIT)
Chitranjali Hills, Thiruvallam, Thiruvananthapuram-27
Phone: 0471-2380910, 912

No. C-DIT/10/SSD/CCTV-KDGP/2024-25/T545

Date: 05.10.2024

TENDER NOTICE

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

Sealed tenders are invited for the **Supply, Installation, Testing, Commissioning, Operationalizing and Maintenance of IP based CCTV Surveillance Security cameras at Various Locations in Kattakkada Grama panchayath office at Thiruvananthapuram and providing Centralized Monitoring Facility of at their Office.** The envelopes containing the tender should bear the superscription *“Tender for the Supply, and Installation, of IP based CCTV Surveillance cameras at Kattakkada Grama panchayath office “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 **14.10.2024, 03.00 PM**. Late tenders will not be accepted. The tenders will be opened at **03.30 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

05.10.2024

SD/-

REGISTRAR



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TENDER TERMS

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

I. GENERAL TERMS AND CONDITIONS

- a) This Tender is invited for the **Supply, Installation, Testing, Commissioning, Operationalizing and Maintenance of IP based CCTV Surveillance Security cameras at Various Locations in Kattakkada Grama panchayath office at Thiruvananthapuram and providing Centralized Monitoring Facility at their Office**, 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

II. 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 Thiruvananthapuram or Kollam).
- 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)

III. SCOPE OF WORK

To identify integrators/ contractors for undertaking the work for Supply, Installation, Testing, Commissioning, Operationalizing and Maintenance of IP based CCTV surveillance security cameras at **Kattakkada, Thiruvananthapuram Grama Panchayath** and providing centralized monitoring facility at their office.

IV. 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 successful bidder shall install CCTV surveillance systems 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.
3. The successful bidder shall supply all equipment/ materials required to execute the work in the respective sites as per the Bill of Material quoted.
4. All the Cameras have to be cabled by UTP CAT-6 Cable 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.
5. The bidder shall set up a Monitoring facility at the Grama Panchayath Office, Kattakkada. The bidder shall do all civil and electrical works for setting up of the CCTV solution.
6. 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.

7. The Camera Video feeds have to be transmitted 24X7 and able to view in the Monitor provided by the bidder and also (through Mobile/ Tab if required).
8. The CCTV system installation includes the installation of indoor and outdoor 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.
9. 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.
- 10. 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.**
- 11. 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.**
- 12. The bidder should submit MAF - Manufacturer's Authorization Form for the Cameras, NVR, Switches.**
13. Successful bidder should provide training to the team identified by the user for operation of the CCTV System and handhold on job.
14. The bidder shall handover all software products license keys/ passwords/ softwares/ installation files including user manual and all necessary documentation to C-DIT.

V. REQUIREMENT SPECIFICATIONS

1.HARDWARE COMPONENTS- Active Components

SI No	Item requirement	Quantity
1	2MP IP Bullet Camera	8 Nos
2	4MP IP Bullet Camera	3 Nos
3	16 Channel NVR	1 No
4	16 Port PoE Switch	1 No
5	Surveillance HDD 4 TB	1 No
6	32" Full HD LED TV	1 No

2.HARDWARE COMPONENTS- Passive Components

SI No	Item requirement	Quantity
1	4U Rack with PDU	1 No
2	Cable6 cable with conduit	500 Mtr
3	Other Electrical accessories	Lot

3. Technical Specification:

2MP fixed IP Bullet Camera	
Image Sensor	1/3" 2MP PS CMOS Image Sensor OR Higher.
Lens	3.6mm
Lens Type	Fixed-focal
Video Compression	H.265/Smart H.264+/H.264/ H.264B/MJPEG
WDR	120 dB
IR	30 m
Protection Grade	IP67

4MP fixed IP Bullet Camera	
Image Sensor	1/3" MP PS CMOS Image Sensor OR Higher
Lens	3.6mm
Lens Type	Fixed-focal

Video Compression	H.265/Smart H.264+/H.264/ H.264B/ MJPEG
WDR	120 dB
IR	30 m
Protection Grade	IP67

16 Channel Network Video Recorder	
IP Camera Input	Up to 16-ch IP camera inputs
VGA Output	1920 × 1080/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz
Compression	H.265+/H.265/H.264+/H.264 video formats
Resolution	Up to 1-ch @ 8MP or 5-ch @ 1080P decoding capacity
Network Bandwidth	Incoming: 160 Mbps Outgoing: 160 Mbps
Storage	2SATA up to 10TB each

16 Port PoE switch	
Ports:	16 × 10/100 Mbps PoE ports
PoE Standard:	IEEE 802.3af/at
Total PoE Power Budget:	Up to 240W
Switching Capacity:	3.2 Gbps
Forwarding Rate:	1.44 Mpps
Power Supply:	100-240V AC, 50/60Hz
Management:	Web-based management, SNMP, VLAN, QoS

Surveillance HDD	
Capacity	4TB
Interface	SATA 6Gb/s
Cache	128MB or higher
Bytes per Sector	4096
Preferred Brand	Seagate/WD Purple/ST Skyhawk/Toshiba

Full HD LED TV	
Screen Type	LED
Display size	32 Inches
Resolution (pixels)	1920x1080

No of HDMI Port	2
No of USB Port	2
Ethernet (RJ45)	1
Number of Speakers	2
Preferred Brand	Sony/Samsung/Panasonic/LG

VI. 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 bidder should specifically mention the make/model of the items quoted in the tender.
6. **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.
7. **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.**
8. The bidder shall quote the rates for Supply, Installation, Testing, Commissioning, Operationalizing with Centralized Monitoring Facility and Maintenance of IP based CCTV Surveillance Security cameras at Kattakkada, Gramapanchayth, Thiruvananthapuram in **"FORM A"**. The tenders which do not indicate price information for all the listed items in the tender will not be considered.
9. **The bidders shall submit the rate in "FORM A" in a sealed envelope.**
10. The rate quoted for the materials/services shall be firm and no enhancement will be allowed under any circumstances.

11. C-DIT reserve the right to cancel any or all tenders without assigning any reasons whatsoever.
12. 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.
13. Authority: The authority for the acceptance of the tenders 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.
14. 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.
15. **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**
16. **The last date for submission of tender 14.10.2024, 03.00 PM.**
The tender will be opened on the same day at 03.30 PM

Sd/
REGISTRAR, C-DIT
Dated **05.10.2024**

Ref. No. C-DIT/10/SSD/CCTV-KDGP/2024-25/T545

Dated 05.10.2024

ANNEXURE 1

Proposed Locations and Solutions

1 Proposed Locations

The below mentioned locations were identified with the approval of the Gramapanchayath for the installation of CCTV Cameras.

1. Waste Disposal Zone
2. Public Space at Office Entrance (Facing the Court)
3. Public Area within the reception
4. Public Space within the MGNREGA Room
5. Public Area within the Office Hall
6. Public Space within the Members' Room
7. Public area designated within the Secretary's office.
8. Public area within the Front Office Corridor

The Monitoring Centre will be setup at the office of the Grama panchayath.

2 Proposed Solution

i) Eight numbers of 2MP Bullet cameras and three numbers of 4MP Bullet camera should be installed at the 8 locations of Grama Panchayath office, Kattakkada.

ii) Monitoring Centre

- An NVR with Surveillance HDD in a 4U rack should be installed inside the panchayath office
- 32" Full HD LED Television should be installed at 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) 2MP fixed IP Bullet Camera

Sl No	Parameter	Specification	Compliance (Yes/No)	Deviations if any
1	Make & Model			
2	Image Sensor	1/3" 2MP PS CMOS Image Sensor OR Higher		
3	Lens	3.6mm		
4	Lens Type	Fixed-focal		
5	Video Compression	H.265/Smart H.264+/H.264/ H.264B/ MJPEG		
6	WDR	120 dB		
7	IR	30 m		
8	Protection Grade	IP67		

2) 4MP fixed IP Bullet Camera

Sl No	Parameter	Specification	Compliance (Yes/No)	Deviations if any
1	Make & Model			
2	Image Sensor	1/3" MP PS CMOS Image Sensor OR Higher		
3	Lens	3.6mm		
4	Lens Type	Fixed-focal		
5	Video Compression	H.265/Smart H.264+/H.264/H.264B/ MJPEG		
6	WDR	120 dB		
7	IR	30 m		
8	Protection Grade	IP67		

3) 16 Channel Network Video Recorder

Sl No	Parameter	Specification	Compliance (Yes/No)	Deviations if any
1	Make & Model			
2	IP Camera Input	Up to 16-ch IP camera inputs		
3	VGA Output	1920 × 1080/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz		
4	Compression	H.265+/H.265/H.264+/H.264 video formats		
5	Resolution	Up to 1-ch @ 8MP or 5-ch @ 1080P decoding capacity		
6	Network Bandwidth	Incoming: 160 Mbps Outgoing: 160 Mbps		
7	Storage	2SATA up to 10TB each		

4) 16 Port PoE switch

SI No	Parameter	Specification	Compliance (Yes/No)	Deviations if any
1	Make & Model			
2	Ports:	16 x 10/100 Mbps PoE ports		
3	PoE Standard:	IEEE 802.3af/at		
4	Total PoE Power Budget	Up to 240W		
5	Switching Capacity	3.2 Gbps		
6	Forwarding Rate	1.44 Mpps		
7	Power Supply	100-240V AC, 50/60Hz		
8	Management	Web-based management, SNMP, VLAN, QoS		

5) Surveillance HDD

SI No	Parameter	Specification	Compliance (Yes/No)	Deviations if any
1	Make & Model			
2	Capacity	4TB		
3	Interface	SATA 6Gb/s		
4	Cache	128MB or higher		
5	Bytes per Sector	4096		
6	Preferred Brand	Seagate/WD Purple/ST Skyhawk/Toshiba		

6) Full HD LED TV

Sl No	Parameter	Specification	Compliance (Yes/No)	Deviations if any
1	Make & Model			
2	Screen Type	LED		
3	Display size	32 Inches		
4	Resolution (pixels)	1920x1080		
5	No of HDMI Port	2		
6	No of USB Port	2		
7	Ethernet (RJ45)	1		
8	Number of Speakers	2		
9	Preferred Brand	Sony/Samsung/ Panasonic/LG		

Date

Stamp

Name, Contact Number and Signature of the Bidder



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FORM - A

COMMERCIAL BID

Quote No.

Date:

Sl No	Item	Quantity	Unit Rate (Incl. GST)	Amount (Incl. GST)
1	Supply and Installation of 2MP IP Bullet Camera (As per tender Specification)	8 Nos		
2	Supply and Installation of 4MP IP Bullet Camera (As per tender Specification)	3Nos		
3	Supply and Installation of 16 Channel NVR (As per tender Specification)	1 No		
4	Supply and Installation of 16 Port PoE Switch (As per tender Specification)	1 No		
5	Supply and Installation of Surveillance HDD 4TB (As per tender Specification)	1 No		
6	Supply and Installation of 32" Full HD LED TV (As per tender Specification)	1 No		
7	Supply and Installation of 4U Rack with PDU (As per tender Specification)	1 No		
8	Supply and Laying of Cat6 Cable with conduits	500 Mtr		
9	Supply and Installation of Other Electrical accessories	Lot		
	TOTAL			

Bidder Name:

Address:

e-mail id & Phone No:

Date :

Signature

Office Seal