



**CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY (C-DIT)**

Chitranjali Hills, Thiruvallam, Thiruvananthapuram-27

Phone: 0471-2380910, 912

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No. C-DIT/11/CCTV-ArthatPHC/2024-25/T561

Date: 27.11.2024

**TENDER NOTICE**

**SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND MAINTANANCE OF IP  
BASED CCTV SURVEILLANCE SECURITY SYSTEM**

Sealed tenders are invited for the **Supply, Installation, Testing, Commissioning, and Maintenance of IP based CCTV Surveillance Security System along with Providing Centralised Monitoring Facility at Arthat PHC, Thrissur**. The envelopes containing the tender should bear the superscription *“Tender for the Supply, Installation, Testing, Commissioning, and Maintenance of IP based CCTV Surveillance Security System along with providing Centralized Monitoring Facility at as Arthat PHC, Thrissur “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 **06.12.2024, 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](http://www.cdit.org)

Thiruvananthapuram

27.11.2024

SD/-

REGISTRAR



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### TENDER TERMS

### SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND MAINTANANCE OF IP BASED CCTV SURVEILLANCE SECURITY SYSTEM

#### GENERAL TERMS AND CONDITIONS

- a) This Tender is invited for the **Supply, Installation, Testing, Commissioning, and Maintenance of IP based CCTV Surveillance Security System along with Providing Centralized Monitoring Facility at Arthat PHC, Thrissur** 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 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 2 lakh each during last 2 years. **(Documents should be attached)**

## **SCOPE OF WORK**

To identify integrators/ contractors for undertaking the work for Supply, Installation, Testing, Commissioning, and Maintenance of IP based CCTV Security surveillance Solution along with Centralised Monitoring Facility at **Arthat PHC, Thrissur**.

## **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 Arthat PHC Office, Thrissur. 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.

## **REQUIREMENT & SPECIFICATIONS**

### **REQUIREMENTS**

#### **1. HARDWARE COMPONENTS- Active Components**

SI No	Item requirement	Quantity
1	5 MP Varifocal IP Bullet Camera	2 No
2	2 MP fixed IP Bullet/ Dome Camera	10 No
3	16 PORT POE Switch	1 No
4	16 channel NVR	1 No
5	Surveillance HDD 4TB	1 No
6	32" HD LED TV	1 No
7	1kVA UPS with external Battery (12Volt/40Ah)	1 No

#### **2. HARDWARE COMPONENTS - Passive Components**

SI No	Item requirement	Quantity
1	3" C Class GI Pipe with 5 meter length with suitable cabin for the installation of power distribution boxes (if required)	1 No
2	4U Rack with PDU	1 No

SI No	Item requirement	Quantity
3	STP Cable	500 mtr
4	Conduits	500 mtr
5	Other Electrical accessories	lot

### 3. Technical Specifications

#### 1) 2 MP 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

#### 2) 5 MP Varifocal IP Bullet

Image Sensor	1/2.7" 5MP Progressive scan CMOS or higher
Shutter Speed	Auto/Manual
Lens Type	Motorized lens
Lens	2.7 mm-13.5 mm
White Balance	Auto/ natural/ street lamp/ outdoor/ manual/ regional custom
Video Compression	H.265; Smart H.264+; H.264; H.264H; H.264B; MJPEG
WDR	120 dB
IR	60 Mtr
Micro SD	Micro SD card (Max. 512GB)
Weatherproof Standard	IP67

#### 3) 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

#### 4) 16 Port PoE switch

Ports:	16 x 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

#### 5) Surveillance HDD

Capacity	4TB
Interface	SATA 6Gb/s
Cache	128MB or higher
Bytes per Sector	4096
<b>Preferred Brand</b>	<b>Seagate/WD Purple/Toshiba</b>

#### 6) 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
<b>Preferred Brand</b>	<b>Sony/Samsung/Panasonic/LG</b>

#### 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
Battery Module	inbuilt Battery Module
Number of battery	12V, 40AH 1No's
Battery Type	SMF - VRLA
DC Voltage	24V
UPS Warranty	3 Years
<b>Preferred Brand</b>	<b>APC/Hykon/Luminous/Microtek</b>

## **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 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 Arthat PHS, Thrissur in "FORM A". The tenders which do not indicate price information for all the listed items in the tender will not be considered.
8. **The bidders shall submit the rate in "FORM A" in a sealed envelope.**
9. The rate quoted for the materials/services shall be firm and no enhancement will be allowed under any circumstances.
10. C-DIT reserve the right to cancel any or all tenders without assigning any reasons whatsoever.
11. **Performance Bank Guarantee (PBG)/Security Deposit:** The Bidder, in the event of an order, should furnish a bank Guarantee from an Indian 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 24 months from the date of commissioning of the work.
12. **EMD:** The bidder shall submit EMD of Rs. 5,000/- ( Rupees five thousand only) along with the tender

13. **PAYMENT TERMS:** 100% payment against successful Supply, installation & commissioning of the Equipment against submission of invoice and Performance Bank Guarantee.

14. commissioning of the Equipment against submission of invoice and Performance Bank Guarantee.

15. **AFTER SALES SERVICE**

- Service support personnel should be available at any time on demand. The bidder has to rectify the fault within 24 hours of service calls.
- The Telephone Number and address of the designated persons should be submitted for reporting faults during the warranty period

16. **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.

17. **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.

18. 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](http://www.cdit.org). Prospective bidders are advised to regularly visit the website: [www.cdit.org](http://www.cdit.org) to keep track of corrigendum, if any.

19. **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**

**The last date for submission of tender 06.12.2024, 03.00 PM.**

**The tender will be opened on the same day at 03.12 PM**

Sd/  
REGISTRAR, C-DIT  
Dated 27.11.2024



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## Annexure 1 Proposed Locations and Solutions

### 1. Locations

The following locations were identified with the approval of the PHC for the installation of CCTV Cameras.

1. PHC-Front side -Facing towards east
2. PHC-Front side-Covering the entry road
3. PHC-Front side-Facing towards south
4. PHC-East Side-Camera fixing on pole
5. PHC-Back Side
6. PHC-West Side
7. Inside PHC – First Room
8. Inside PHC – Second Room – Towards South Side
9. Inside PHC – Second Room – Towards East Side-Verandah
10. Inside PHC – Pharmacy Area
11. Inside PHC – Blood Collection Area
12. Inside PHC – First Floor.Covering the two rooms and stair case

The Monitoring centre will have to setup at the First floor. (Pothujana Arogyam Room)

### 2. Proposed Solution

#### (i). PHC Building and Premises

1. Two 5MP Varifocal camera is proposed to install
  - (I) By erecting pole on the east side of PHC building to monitor the outer ground. UG cabling will be provided to the installed 5 MP camera.
  - (ii) Back side of the PHC Building to monitor the outer ground.
2. Ten 2MP fixed IP bullet camera is proposed to install in the PHC building.
3. One 16 port PoE switch will be installed to connect the cameras.

An Internet connectivity of minimum 60 Mbps bandwidth with static IP will be provided by PHC.



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## FORM - A

### COMMERCIAL BID

Quote No.

Date:

SI No	ITEM	QUANTITY	UNIT RATE (Incl. GST)	AMOUNT (Incl. GST)
1	Supply and Installation of 5 MP Varifocal IP Bullet Camera (As per tender Specification)	2 Nos		
2	Supply and Installation of 2 MP fixed IP Bullet/ Dome Camera (As per tender Specification)	10 Nos		
3	Supply and Installation of 16 PORT POE Switch (As per tender Specification)	1 No		
4	Supply and Installation of 16 channel NVR (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" HD LED TV (As per tender Specification)	1 No		
7	Supply and Installation 1kVA UPS with external Battery (12Volt/40Ah) (As per tender Specification)	1 No		
8	Supply and Installation 3" C Class GI Pipe with 5 meter length with suitable cabin for the installation of power distribution boxes (if required)	1No		
9	Supply and Installation 4U Rack with PDU (As per tender Specification)	1No		
10	Supply and Installation STP Cable	500 Mtr		
11	Supply and Installation Conduits	500 Mtr		
12	Supply and Installation of Other Electrical accessories	Lot		
	<b>TOTAL</b>			

Bidder Name:

Address:

e-mail id:

Date

Signature

Office Seal