

CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY (C-DIT)

Chitranjali Hills, Thiruvallam,
Thiruvananthapuram-27 Phone: 0471-
2380910, 12

No. C-DIT/03/CCTV-CHAV/2023-24/T491

Date: 13.03.2024

TENDER TERMS

**SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF IP BASED CCTV SURVEILLANCE
SYSTEM AT COMMUNITY HEALTH CENTRE CHAVARA.**

Sealed tenders are invited for the **Supply, Installation, Testing, Commissioning, Operationalizing and Maintenance of IP based CCTV surveillance security cameras at Government Community Health Centre, Chavara, Kollam and providing centralized monitoring facility**. The envelopes containing the tender should bear the superscription "***Tender for the Supply, Installation, Testing, Commissioning, Operationalizing and Maintenance of IP based CCTV surveillance security cameras at Government Community Health Centre, Chavara, Kollam and providing centralized monitoring facility***" and should be addressed to The Registrar, Centre for Development of Imaging Technology (C-DIT), Chitranjali Hills, Thiruvallam, Thiruvananthapuram 695027. Intending tenderers may submit the tenders on their own papers by post/hand. Last date for receipt of tenders is **23.03.2024, 3.00 PM**. Late tenders will not be accepted. The tenders will be opened at **3.30 PM on 23.03.2024** 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

Thiruvananthapuram
13.03.2024

Sd/-
REGISTRAR

CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY (C-DIT)

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Thiruvananthapuram-27 Phone: 0471-2380910, 12

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TENDER FOR THE IMPLEMENTATION OF IP BASED CCTV SURVEILLANCE SYSTEM

1. 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 Government Community Health Centre, Chavara, Kollam and providing centralized monitoring facility**" as per the tender specification.
- b) C-DIT reserves the right to cancel any or all tenders without assigning any reason whatsoever.

2. SCOPE OF WORK

Supply, Installation, Testing, Commissioning, Operationalizing and Maintenance of IP based CCTV surveillance System at Government Community Health Centre, Chavara, Kollam and to setup a centralized monitoring facility at the Office.

BILL OF MATERIALS (Active)

SI No	Item	Quantity
1	2MP IP Bullet Camera	10
2	2MP IP Dome Camera	3
3	16 Channel NVR	1
4	8 TB SURVEILLANCE HARD DISC	1
5	16 Port POE Switch +2 uplink port	1
6	24" Full HD Display (Monitor/TV)	1

BILL OF MATERIALS (Passive)

SI No	Item	Quantity
1	Cat6 UTP Cable	825 mtr
2	Conduit (ISI, Ivory, Medium). Cabling with Trenching or overhead/Wall include pipe with sufficient accessories	825 mtr
3	4 U Wall Mount Rack with PDU and other accessories.	1
4	Electrical Wiring accessories-	Lot
5	Wireless Mouse	1 No

1. SPECIFICATIONS

1.0 Dome Camera (2MP IP Dome Motorized)

SL No	PARAMETER	SPECIFICATION
1	Lens Type	3.6mm or better
2	Image Sensor:	1/ 2.8" or higher Progressive Scan CMOS or better
3	IR Distance	Up to 30 m or better
4	Video Compression	H.265+/H265/H264/
5	ONVIF Profile	ONVIF profiles and Profile G compliant
6	Certification	BIS
7	Warranty	2 Years OEM warranty
8	Make/ Model preference	CP Plus, Dahua, Hikvision, Honeywell or equivalent

2.0 Bullet Camera (2MP IP Bullet)

SL No	PARAMETER	SPECIFICATION
1	Lens Type	3.6mm or better
2	Image Sensor:	1/ 2.8" or higher Progressive Scan CMOS or better

3	IR Distance	Up to 30m or better
4	Video Compression	H.265+/H265/H264/
5	ONVIF Profile	ONVIF profiles and Profile G compliant
6	Ingress Protection	IP67 rated for Weather resistant performance.
7	Event	Motion detection, Video tampering, Network disconnection, IP conflict, Illegal access
8	Certification	BIS
9	Warranty	2 Years OEM warranty
10	Make/ Model preference	CP Plus, Dahua, Hikvision, Honeywell or equivalent

3.0 Network Video Recorder (16 Channel)

SL No	PARAMETER	SPECIFICATION
1	No of Channels	16 channel IP
2	Input Bandwidth	160 Mbps
3	Supported Video Compression	H.264/H.264+/H.265/ H.265+or better
4	Storage Support	2 SATA Port up to 8Tb /HDD
5	Certification	BIS Certificate
6	Warranty	2 Years OEM warranty
7	Make/Model preferred	CPPlus, Dahua, Hikvision, Honeywell

4.0 PoE Switch (16 Port)

SL No	PARAMETER	SPECIFICATION
1	Physical Specifications	10/100/1000 PoE
2	Certifications	BIS
3	Warranty and Support	2 Years OEM warranty

4	Make/ Model	CPPlus, Dahua, Hikvision, Honeywell D-Link, Netgear, Cisco or equivalent
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5.0 Professional Display (Monitor/TV)

SL No	PARAMETER	SPECIFICATION
1	Size (inch/cm)	24" LED TV
2	Connector type	Sufficient HDMI cable
3	Mounting accessories	With sufficient wall mounting accessories
4	Make/Model	LG, Panasonic, Sony , Samsung or equivalent
5	HDMI Cable	<ol style="list-style-type: none"> 1. High Speed 10.2Gbps 2. HDMI Cable - CL3 Rated 3. Supports 4K 30Hz, Ultra HD, 3D, 1080p, Ethernet and Audio Return (Latest Standard) 4. 5 Meters

6.0 Surveillance HDD

SL No	PARAMETER	SPECIFICATION
1	Capacity	8TB Surveillance HDD
2	Warranty (Years)	2 years
3	Make/Model	WD Purple, Seagate , Skyhawk

TECHNICAL SPECIFICATION FOR PASSIVE COMPONENTS

1.0 CAT 6 UTP Cable

SL No	PARAMETER	SPECIFICATION
1	Category	CAT 6 UTP solid cable
2	Conductor	23 AWG (solid)
3	Conductor material	Bare copper
4	Insulation material	HD-PE
5	Certificates	UL certified, IEEE standard, BIS (preferable)

6	Make/Model preferred	Molex, Comm Scope, AMP or equivalent
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2.0 Power Cable (2.5 sq mm)

SLN o	PARAMETER	SPECIFICATION
1	No: of Core	3 core
2	Size of conductor	2.5 sq mm
3	Conductor Material	Copper
4	Type	FRLHS with ISI
5	Make/Model	Finolex, Havells, Polycab or equivalent

3.0 4U Wall Mountable Rack

SL No	PARAMETER	SPECIFICATION
1	PDU	Power distribution unit with accessories
2	Make/ Model preferred	CPPlus, Netrack, Unicorn or equivalent

4.0 Conduit

SLNo	PARAMETER	SPECIFICATION
1	Type	Medium
2	Material	PVC
3	Features	Corrosion resistant, Chemical resistant
4	Grade	FRLS, ISI

3 ELIGIBILITY CRITERIA OF TENDERER

- a) The bidder must be an OEM authorized dealer / reseller/supplier of the quoted items with prior experience in supply installation and operationalising of the same or similar equipment with an experience of having successfully completed at least three (03)

similar installations (CCTV project), costing each not less than an aggregate amount Rs 5 Lakhs.

- b) The bidder should submit MAF - Manufacturer's Authorization Form for the Cameras, NVR, Switches, Monitor/ TV, and UPS.
- c) The bidder must have a registered office and well-equipped Service Centre (preferably at Eranakulam, Thrissur, Kozhikode) functioning in Kerala and should have been in business for the last 3 years.
- d) The Bidder should have a minimum annual turnover of 25 lakhs (Twenty Five Lakhs) for the last 3 years.
- e) Bidder should be a registered company or registered business firm as per Indian Law, doing similar business.
- f) The bidder must have a currently valid GST registration certificate and PAN number.
- g) An undertaking to the effect that the bidder has not been blacklisted by any of the department/organizations of the Govt. of India/State Govt /PSUs.

4.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 at the campus of **Government Community Health Centre, Chavara, Kollam**, providing monitoring facility at their office,
3. The successful bidder shall supply all equipment/ materials required to execute the work in respective sites as per the Bill of Material quoted.
4. The bidder shall ensure the CCTV camera will cover the following locations in the campus of **Government Community Health Centre, Chavara, Kollam**.

SI No	Name of the Location
1	Main Gate and Second Gate
2	OP Waiting Area
3	OP – Outside Waiting Area
4	Isolation ward area
5	Office area

5. The locations provided are indicative and may change. The bidder has to finalize the location of the cameras in consultation with the C-DIT officials before installation.
6. All the Cameras have to be cabled by UTP CAT-6 Cable and connected to PoE Switch using structured cabling for the LAN. Proper conduit as per the specification should be provided.
7. In case of connecting multiple buildings, It is the responsibility of the bidder to make trenches as per the specification for placing the cables and thereafter to fill them properly.
8. The bidder shall set up a Monitoring facility at the office **Government Community Health Centre, Chavara, Kollam**. The bidder shall do all civil and electrical works for setting up the of CCTV solution.
9. **The Successful bidder shall be responsible for making the surveillance system in full functional condition after the Installation.**
10. The Successful bidder should provide training to the concerned officials regarding the working principles of the surveillance system installed.
11. Bidder shall invariably be accompanied by manufacturer's catalogues and leaflets giving full specifications. Technical particulars and other details of the items offered, 'brand make' and complete specification should be mentioned in the tender. In the absence of full details and technical specification the tenders for the items will be rejected.
12. 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.
13. 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).
14. 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.
15. 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.

16. **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.**
17. **The bidder shall ensure two 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.**
18. Successful bidder should provide training to the team identified by the user for operation of the CCTV System and handhold on job.
19. The bidder should handover all software products license keys/ softwares/ installation files including user manual and all necessary documentation to C-DIT.
20. No advance payment will be made against supply and Installations. Tenders demanding advance payment and clearance through banks will not be accepted.
21. The undersigned 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. C-DIT reserve the right to split the quantity of items to be supplied among one or more bidders, at the sole discretion.
22. **The rate quoted by the bidder shall be inclusive of tax, transportation charges and installation charges at site.** Rates quoted by the bidder shall be valid for a period of six months from the date of opening of the tender.
23. There is a separate price bid form attached along with this tender. The supplier shall submit the price offers in their own paper.
24. The rate quoted for material shall be firm and no enhancement will be allowed under any circumstances.
25. The bidder shall fill in the compliance statement attached along with the tender as an additional document.
26. EMD: The bidder shall submit EMD of Rs. 3,000/- (Rupees Three Thousand only) along with the tender in the form of Demand draft drawn in favour of The Registrar, C-DIT, payable at Thiruvananthapuram.
27. The Supplier shall provide on-site comprehensive OEM warranty of **two years** for the products from the date of supply.
28. If the bidder furnishes wrong and/or misleading data, statement(s) etc. about technical acceptability of the goods and services offered by it, its tender will be liable to be ignored and rejected in addition to other remedies available to the purchaser in this regard.

29. After Sales Service: The bidder should have after sales service centre at Ernakulam, Thrissur, Palakkad or Kozhikode. Complaints should be attended properly, maximum within 24 hrs. The service should be provided directly by bidder's trained personal.
30. All items offered shall conform in all respects to the relevant Indian standard Specification with up-to-date amendments wherever applicable.
31. C-DIT reserve the right to cancel any or all tenders without assigning any reasons whatsoever.
32. PAYMENT TERMS: 100% payment after successful supply & installation of the Equipment and against submission of invoice.
33. Authority: The authority for the acceptance of the tenders rests exclusively with the C-DIT. 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.
34. Agreement: The Successful bidder within 7 days of getting confirmed work order has to enter an agreement with C-DIT in Rs.200 worth non judicial stamp paper, to ensure warranty and after sales support during the warranty period.
35. **The bidders, those who claim Bid Security/EMD Exemptions should furnish the Bid Security Declaration form on a stamp paper worth ₹ 200/-, in the format attached as 'Annexure I', and should upload along with the tender. The original/hard copy shall be sent by registered post addressed to The Registrar, C-DIT, Chithranjali Hills, Thiruvallam, Thiruvananthapuram- 695027. The bids which are not accompanied with the Bid Security Declaration form, shall be considered in complete and rejected summarily without any further intimation.**
36. **The last date for submission of tender 23.03.2024 at 3.00 PM**
The tender opening date 23.03.2024 at 3.30 PM

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.

37. In case of doubt:

If the bidder has any doubt on technical specifications or on terms & conditions stipulated above, **please contact Shri. Vinod. N, HoD (Surveillance Solution Dept) in Mobile 9895788233.**

Sd/
REGISTRAR, C-DIT
Dated 13.03.2024

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Chitranjali Hills, Thiruvallam, Thiruvananthapuram-27
Phone: 0471-2380910, 912

No. C-DIT/03/CCTV-CHAV/2023-24/T491

Date: 13.03.2024

COMPLIANCE STATEMENT

Compliance Statement of Technical specification required for the Laptop. Technical compliance of every component 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.

1.0 Dome Camera (2MP IP Dome)

SL No	PARAMETER	SPECIFICATION	Compliance Yes/No	Remarks/ Deviation
1	Lens Type	3.6mm or better		
2	Image Sensor:	1/ 2.8" or higher Progressive Scan CMOS or better		
3	IR Distance	Up to 30 m or better		
4	Video Compression	H.265+/H265/H264/		
5	ONVIF Profile	ONVIF profiles and Profile G compliant		
6	Certification	BIS		
7	Warranty	2 Years OEM warranty		
8	Make/ Model preference	CP Plus, Dahua, Hikvision, Honeywell or equivalent		

2.0 Bullet Camera (2MP IP Bullet)

SL No	PARAMETER	SPECIFICATION	Compliance Yes/No	Remarks/ Deviation
1	Lens Type	3.6mm or better		
2	Image Sensor:	1/ 2.8" or higher Progressive Scan CMOS or better		
3	IR Distance	Up to 30m or better		
4	Video Compression	H.265+/H265/H264/		
5	ONVIF Profile	ONVIF profiles and Profile G compliant		
6	Ingress Protection	IP67 rated for Weather resistant performance.		
7	Event	Motion detection, Video tampering, Network disconnection, IP conflict, Illegal access		
8	Certification	BIS		
9	Warranty	2 Years OEM warranty		
10	Make/ Model preference	CP Plus, Dahua, Hikvision, Honeywell or equivalent		

3.0 Network Video Recorder (16 Channel)

SL No	PARAMETER	SPECIFICATION	Compliance Yes/No	Remarks/ Deviation
1	No of Channels	16 channel IP		
2	Input Bandwidth	160 Mbps		
3	Supported Video Compression	H.264/H.264+/H.265/ H.265+or better		
4	Storage Support	2 SATA Port up to 8Tb /HDD		
5	Certification	BIS Certificate		
6	Warranty	2 Years OEM warranty		

7	Make/Model preferred	CPPlus, Dahua, Hikvision, Honeywell		
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4.0 PoE Switch (16 Port)

SL No	PARAMETER	SPECIFICATION	Compliance Yes/No	Remarks/ Deviation
1	Physical Specifications	10/100/1000 PoE		
2	Certifications	BIS		
3	Warranty and Support	2 Years OEM warranty		
4	Make/ Model	CPPlus, Dahua, Hikvision, Honeywell D-Link, Netgear, Cisco or equivalent		

5.0 Monitoring Display (Monitor/TV)

SL No	PARAMETER	SPECIFICATION	Compliance Yes/No	Remarks/ Deviation
1	Size (inch/cm)	24" LED TV		
2	Connector type	Sufficient HDMI cable		
3	Mounting accessories	With sufficient wall mounting accessories		
4	Make/Model	LG, Panasonic, Sony , Samsung or equivalent		
5	HDMI Cable	<ol style="list-style-type: none"> 1. High Speed 10.2Gbps 2. HDMI Cable - CL3 Rated 3. Supports 4K 30Hz, Ultra HD, 3D, 1080p, Ethernet and Audio Return (Latest Standard) 4. 5 Meters 		

6.0 Surveillance HDD

SL No	PARAMETER	SPECIFICATION	Compliance Yes/No	Remarks/ Deviation
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1	Capacity	8TB Surveillance HDD		
2	Warranty (Years)	2 years		
3	Make/Model	WD Purple, Seagate , Skyhawk		

TECHNICAL SPECIFICATION FOR PASSIVE COMPONENTS

1.0 CAT 6 UTP Cable

SL No	PARAMETER	SPECIFICATION	Compliance Yes/No	Remarks/ Deviation
1	Category	CAT 6 UTP solid cable		
2	Conductor	23 AWG (solid)		
3	Conductor material	Bare copper		
4	Insulation material	HD-PE		
5	Certificates	UL certified, IEEE standard, BIS (preferable)		
6	Make/Model preferred	Molex, Comm Scope, AMP or equivalent		

2.0 Power Cable (2.5 sq mm)

SL No	PARAMETER	SPECIFICATION	Compliance Yes/No	Remarks/ Deviation
1	No: of Core	3 core		
2	Size of conductor	2.5 sq mm		
3	Conductor Material	Copper		
4	Type	FRLHS with ISI		
5	Make/Model	Finolex, Havells, Polycab or equivalent		

3.0 4U Wall Mountable Rack

SL No	PARAMETER	SPECIFICATION	Compliance Yes/No	Remarks/ Deviation
2	PDU	Power distribution unit with accessories		

2	Make/ Model preferred	CPPlus, Netrack, Unicorn or equivalent		
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4.0 Conduit

SLNo	PARAMETER	SPECIFICATION	Compliance Yes/No	Remarks/ Deviation
1	Type	Medium		
2	Material	PVC		
3	Features	Corrosion resistant, Chemical resistant		
4	Grade	FRLS, ISI		

Date

Seal

Name and Signature of Bidder



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PRICE BID FORM

The bidder shall submit their price offers in the prescribed form as given below. The rate should be quoted for the unit shown in the list and tenders which do not indicate this essential information will not be considered.

SI No	Items	Make & Model No.	Qty	Unit price	Total (Inclusive of taxes)
1	Supply and Installation of 2MP IP Bullet Camera – 1/2. 8 " or higher CMOS Sensor, lens :3.6mm, IR Range 30 mtr, IP 67, ONVIF Compliance. BIS Certified		10 Nos		
2	Supply and Installation of 2MP IP Dome Camera - 1/2.8 " or higher CMOS Sensor, lens :3.6mm, IR Range 30 mtr, , ONVIF Compliance. BIS Certified		3 Nos		
3	Supply and Installation of 16 Channel NVR with 2 SATA HDD up to 8 TB each, Min.Band width 160 Mbps		1 No		
4	Supply and Installation of 16 Port POE Switch + 2 port uplink 10/100/1000		1 No		
5	Supply and Installation of 8 TB SURVEILLANCE HARD DISC (Segate, Skyhawck, WD Purple		1 No		
6	Supply and Installation of 24 " LED TV with sufficient HDMI cable (MI, LG, Samsung, Dell, Panasonic)		1 No		

7	Supply and Installation of 4 U Rack PDU and other accessories (Netrack,MRS,Rackspace,Unicorn)		1 No		
9.	Supply and Installation of Cat6 UTP Cable-23 AWG, UL Certified cable with Conduit (ISI, Ivory, Medium). Cabling with Trenching or overhead/Wall include pipe with sufficient accessories (Molex/Honeywell/CommScope)		825 mtr		
10.	Wireless Mouse		1 No		
TOTAL AMOUNT					

Bidder Name:

Address:

Mobile No:

e-mail Id:

Signature

Date

Office Seal