



CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY (C-DIT)

Chitranjali Hills, Thiruvallam, Thiruvananthapuram-27
Phone: 0471-2380910, 912 Fax: 0471- 2380681

No. C-DIT/CG/Muziris/19-20/T132

Date: 01.07.2019

TENDER NOTICE

SUPPLY AND INSTALLATION CCTV SURVEILLANCE SYSTEM

Sealed tenders are invited for the supply and installation of CCTV Surveillance System at **paliyam palace, Chendamangalam, Eranakulam**. The envelopes containing the tender should bear the superscription ***“Tender for the supply and installation CCTV surveillance system”*** 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 **19.07.2019, 3.00 PM**. Late tenders will not be accepted. The tenders will be opened at **3.30 PM on 19.07.2019** 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

01.07.2019

Sd/-

REGISTRAR



CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY (C-DIT)

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TENDER FOR SUPPLY AND INSTALLATION OF IP BASED SURVEILLANCE SYSTEM

Requirement:

This Tender is invited for the "*supply, installation and commencing of CCTV surveillance system*" to be installed at **Chendamangalam, Eranakulam** for one of the projects taken up by C-DIT

SI No	Items	Quantity
1	HD-DVR 16 Channel	4
2	HD-DVR 8 Channel	1
3	HD-IR-Dome Camera 2.4MP	29
4	HD-IR-Bullet Camera 2.4MP	25
5	HD-Indoor PTZ Camera	4
6	HD-Outdoor PTZ Camera	4
7	HDD-4TB for 16 Channel DVR	4
8	HDD-2TB for 8 Channel DVR	1

TECHNICAL SPECIFICATION

1. 16ch DVR - 4 Nos

Processor	- High performance embedded microprocessor
Operating System	- Embedded LINUX
Video Input	- 16 channel, BNCSupport AHD, TVI, CVI, CVBS, IP video input
Video Output	- 1 HDMI, 1 VGA
Compression	- H.265/ G.711a
Video Display	- Split1/4/8/9/16
Audio Input	- 2 channel
Audio Output	- 1 channel
Hard Disk	- 1 SATA port, up to 8TB
HDD Management	- HDD Storage, Network Storage

Recording Mode	- Manual>Alarm>Motion detection>Timing
Search Mode	- Search by Time/Calendar/Event/Channel
Playback	- 16Ch.
Backup Mode	- Network, USB, SATA
Interface Ports	- 2 USB 2.0, 1 RS485
Ethernet	- RJ45 10/100Mbps Adaptive Ethernet port
Protocols	- HTTP, TCP/IP, UDP, IPV4, UPNP, RTSP, SMTP, NTP, DHCP, DNS, FTP, P2P, ONVIF, CGI

2. 2.4 MP BULLET CAMERA - 25 Nos

Image Sensor	- 1/2.9" 2.4MP HQIS Pro Image Sensor
Minimum IlluminationColor	- (0.1Lux), (0 Lux IR LED on)
Shutter Speed	- 1/50s(1/60s)-1/100,000s(Auto/Fixed)
White Balance	- Auto
Lens	- 3.6mm
AGC Control	- Auto
S/N Ratio	- ≥ 41 dB
Back Light Comp	- Auto
Resolution	- 2.4MP
Video Output	- 1.0Vp-p Composite Output (75 Ω / BNC), AHD (1080P) \ HD-TVI (1080P) \ HD-CVI (1080P)\ CVBS ,
Frame Rate	- 30fps(60Hz), 25fps(50Hz)
ICR support	
WDRWDR	
Gamma Correction	- 0.45
IR	- IR Range of 20 Mtr.
Operating Temperature	- 20°C~+55°C
Humidity	- 10% ~ 90% (humidity), <95% RH no dew
Weatherproof	- StandardIP66

3 . OUTDOOR PTZ CAMERA - 4 Nos

Image Sensor	- 1/2.8" PS CMOS
Effective Pixels	- 1920(H) x 1080(V), 2MP
Video Output	- 1-channel BNC high definition video output/ CVBS standard definition video output
S/N Ratio	- More than 55dB
Minimum Illumination Color	-: 0.005Lux@F1.6; 0Lux@F1.6 (IR on)
Focal Length	- 4.8mm~120mm
White Balance	- Auto, ATW, Indoor, Outdoor, Manual
Focus Control	- Auto / Manual
Close Focus Distance	- 100mm~ 1000mm
Angle of View	- H: 59.2° ~ 2.4°
Electronic Shutter	- PAL: 1/3s~1/30,000s, NTSC: 1/4s~1/30,000s
AGC Control	- Auto / Manual
Back Light Compensation	- BLC / HLC / WDR(120dB)
Optical Zoom	- 25x

Digital Zoom	- 16x
Pan Travel	- 0°~360° endless, Pan Speed: 0.1° ~ 200°/sec
Tilt Travel	- 15° ~ 90° auto flip 180°, Tilt Speed: 0.1° ~120°/sec
Presets	- 300
Preset Speed	- Pan: 240° /s; Tilt: 200° /s
Special Features	- IR Range up to 100m, Up to 300 Presets, 5 Pattern, 8 Tour, Auto Pan, Auto Scan Privacy MaskUp to 24 areas
Power up Action	- Auto restore to previous PTZ and lens status after power failure
Idle Motion	- Activate Preset/ Pan/ Scan/ Tour/ Pattern if there is no command in the specified period
Day/Night	-: IR Cut FlitAuto (ICR) / Color / B/W
Audio Streaming	- 1 channel In
Networking	- 1 RS485
Alarm	- 2/1 channel in/Out
Operating Temperature	- 40°C ~ 70°C / Less than 90% RH
Weatherproof Standard	- IP66
Dimension Φ	- 160(mm) x 295(mm)

4. INDOOR PTZ CAMERA - 4 Nos

Image Sensor	- 1/2.8" PS CMOS
Effective Pixels	- 1920(H) x 1080(V), 2MP
Video Output	- 1-channel BNC high definition video output/ CVBS standard definition video output (switchable)
S/N Ratio	- More than 55dB
Minimum Illumination Color	-: 0.005Lux@F1.6; 0Lux@F1.6 (IR on)
Focal Length	- 4.8mm~120mm
White Balance	- Auto, ATW, Indoor, Outdoor, Manual
Focus Control	- Auto / Manual
Close Focus Distance	- 100mm~ 1000mm
Angle of View	- H: 59.2° ~ 2.4°
Electronic Shutter	- PAL: 1/3s~1/30,000s, NTSC: 1/4s~1/30,000s
AGC Control	- Auto / Manual
Back Light Compensation	- BLC / HLC / WDR (120dB)
Optical Zoom	- 25x
Digital Zoom	- 16x
Pan Travel	- 0°~360° endless, Pan Speed: 0.1° ~ 200°/sec
Tilt Travel	- 15° ~ 90° auto flip 180°, Tilt Speed: 0.1° ~120°/sec
Presets	- 300
Preset Speed	- Pan: 240° /s; Tilt: 200° /s
Special Features	- IR Range up to 100m, Up to 300 Presets, 5 Pattern, 8 Tour, Auto Pan, Auto Scan Privacy Mask Up to 24 areas
Power up Action	- Auto restore to previous PTZ and lens status after power failure
Idle Motion	- Activate Preset/ Pan/ Scan/ Tour/ Pattern if there is no command in the specified period
Day/Night	-: IR Cut Filter Auto (ICR) / Color / B/W
Audio Streaming	- 1 channel In
Networking	- 1 RS485
Alarm	- 1 channel in/Out

Operating Temperature	- 40°C ~ 70°C / Less than 90% RH
Weatherproof Standard	- IP66
DimensionΦ	- 160(mm) x 295(mm)

5. 8 Ch DVR - 1No

Processor	- Embedded processor
Operating System	- Embedded LINUX
IP Camera Input	- 8+4 Ch., each channel up to 6MP
User Interface	- GUI
Video Input	- 8 channel, BNC
Video Output	- 1 HDMI, 1 VGA
Compression	- H.265+/H.265/H.264+/H.264
Video Resolution	- 1920×1080, 1280×1024, 1280×720
Video Recording	- Main Stream: 1st & 2nd channels 5M-N(1~10fps); other channels 4M-N/1080P(1~15fps);1080N/720P/960H/ D1/CIF (1~25/30fps), Sub stream: CIF/QCIF(1~15fps)
Video Display Split	- 1/4/8/9
Audio Input	- 1 channel, RCA
Audio Output	- 1 channel, RCA
Motion Detection	- MD Zones: 396 (22 × 18)
Hard Disk	- 1 SATA port, up to 6TB
Trigger Events	- Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips
Search Mode	- Time /Date, Alarm, MD and Exact Search (accurate to second)
Playback	- Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup, selection, Digital zoom
Backup Mode	- USB Device/Network
Interface Ports	- 1 HDMI, 1 VGA, 2 USB2.0
Record Interval	- 1~60 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec
Max User Account	- 128 users
Ethernet	- RJ-45 port (100M)
Protocols	- HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, DDNS, FTP, Alarm Server, P2P,IP Search, ONVIF 16.12, CGI Conformant
Working Temp	- 10°C ~ +45°C (+14°F ~ +113°F), 10 ~ 90% RH
Dimension	- 197mm x 192mm x 41mm

6. 2.4 MP DOME CAMERA – 29 Nos

Image Sensor	- 1/2.9" 2.4MP HQIS Pro Image Sensor
Minimum Illumination color	- (0.1Lux), (0 Lux IR LED On)
Shutter Speed	- 1/50s(1/60s)-1/100,000s(Auto/Fixed)
White Balance	- Auto
Lens	- 3.6mm
AGC Control	- Auto
S/N Ratio	- ≥41dB

Back Light Comp	- Auto
Resolution	- 2.4MP
Video Output	- 1.0Vp-p Composite Output (75Ω / BNC)AHD(1080P)\ HD-TVI(1080P)\ HD-CVI(1080P)\ CVBS
Frame Rate	- 30fps(60Hz) , 25fps(50Hz)
Gamma Correction	- 0.45
IRIR Range	- 20 Mtr.
Operating Temperature	- 20°C~+50°C
Humidity	- 10% ~ 90%(humidity) , <95% RH no dew

GENERAL TERMS AND CONDITIONS

1. ELIGIBILITY CRITERIA OF TENDERER

To qualify for award of the work, the intending bidder must be an OEM authorized dealer / supplier of the quoted items with prior experience in supplying same or similar equipment at least two clients in the last two years with total executed order quantity of 5 nos or more in the last 3 years, worth ₹ 3 lakh or above

2. The bidders will be responsible for effecting supply to the entire satisfaction of the undersigned or his authorized representatives. In case any defect in the item supplied is noticed, such item will be rejected at the risk and cost of the Supplier.
3. 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.
4. 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. C-DIT reserve the right to split the quantity of items to be supplied among one or more bidders, at the sole discretion
5. No advance payment will be made against supplies.
6. The rate quoted by the bidder shall be inclusive of the 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.
7. Delivery period shall be specifically indicated in the tender and strictly adhered to. Unless otherwise agreed by C-DIT, the supply shall be arranged within **15 days** on receipt of the firm order. Any delay in the delivery period after the supply order is placed may result in cancellation of the supply order or payment of liquidated damages @ ½% per day subject to a maximum of 10% of contract price

8. **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.**
9. **There is no separate bid form. The supplier shall submit the price offers in their own paper**
10. The rate quoted for material shall be firm and no enhancement will be allowed under any circumstances.
11. The Supplier/ Contractor shall provide on-site comprehensive warranty of **one year** for the products from the date of supply. Bidder shall also give extended warranty for additional two years for which AMC rate should be indicated in the price proposal separately
12. 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.
13. After Sales Service: The bidder should have after sales service centre in the state, preferably in Ernakulam. Complaints should be attended properly, maximum within 24 hrs. The service should be provided directly by bidder's trained personal.
14. All items offered shall conform in all respects to the relevant Indian standard Specification with up to date amendments wherever applicable.
15. Any dispute / differences between the parties arising out of and in connection with the contract shall be settled amicably by mutual negotiations. Unresolved disputes/ differences, if any, shall be settled by Arbitration and the arbitration proceedings shall be conducted at Thiruvananthapuram (India) in English language, under the Indian Arbitration and Conciliation Act(Amended), 2015. Unsettled disputes will be referred to courts and courts in Thiruvananthapuram/ Kerala will have exclusive jurisdiction over the same.
16. C-DIT reserve the right to cancel any or all tenders without assigning any reasons whatsoever
17. Performance Bank Guarantee (PBG)/ Security Deposit: The successful bidder shall submit Contract Performance Guarantee for 5% of the value of contract either in the form of Demand Draft or a bank guarantee from a scheduled bank at no extra cost in a Performa prescribed by C-DIT. The PBG shall be valid for period of twelve months from the date of supply of equipment at C-DIT.
18. PAYMENT TERMS

The following terms of payment shall be applicable for the contract

 - a) 90% payment against successful supply and installation of the Equipment.
 - b) 10% to be released after one month from the date of supply against submission of the security bond/bank guarantee

19. 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.
20. 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.
21. **The last date for submission of tender 19.07. 2019, 3.00 PM.**
The tender will be opened on the same day at 3.30 PM
22. 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.
23. In case of doubt:
If the bidder has any doubt on technical specifications or on terms & conditions stipulated above, please contact Sri. Ramesh Vikraman , DD(i/c), in Mobile Number: 9895788166

Sd/
REGISTRAR, C-DIT
Dated **01.07.2019**

PROFORMA OF "AGREEMENT"

(To be executed on non-Judicial Stamp Paper)

This Agreement made this. day of Two thousand and Between Centre for Development of Imaging Technology, a Society, registered under the Travancore-Cochin Literary, Scientific and Charitable Societies Registration Act XII of 1955, having its registered Office at Chitranjali Hills, Thiruvallom, Trivandrum 695 027 (hereinafter referred to as "C-DIT" which expression shall include its administrators, successors, executors and assigns) of the one part and a company/firm incorporated under the..... having its registered Office at (hereinafter referred to as the "Contractor" or "X" (brief name of contracting Co.) (which expression shall include its administrators, successors, executors and permitted assigns) of the other part.

WHEREAS C-DIT has invited bids for (briefly describe scope of the (work) as per its specification Ref. No.

AND WHEREAS..... "X" had participated in the above referred bidding vide their proposal No. dated and C-DIT accepted their aforesaid proposal and awarded the contract to "X" on terms and conditions contained in its letter of Indent/Purchase Order No. dated And the documents referred to therein, which have been accepted by "X" resulting into a "Contract"

NOW THEREFORE THIS DEED WITNESSETH AS UNDER :-

Article 1.0 AWARD OF CONTRACT

C-DIT has awarded the contract to "X" for the work of on the terms and conditions contained in its letter of Indent/Purchase Order No. dated and the documents referred to therein. The award has taken effect from.i.e. the date of issue of the aforesaid Letter. The terms &

expressions used in this Agreement shall have the same meaning as are assigned to them in the “Contract Documents” referred to in the succeeding Article.

Article 2.0 CONTRACT DOCUMENTS

The Contract shall be performed strictly as per the terms and conditions stipulated herein and in the following documents attached herewith (hereinafter referred to as “Contract Documents”).

Article 3.0 CONDITIONS & CONVENANTS

The scope of Contract, Consideration, Terms of payment, price Adjustment, Taxes wherever applicable, Insurance, liquidated Damages, performance, Guarantee and all other terms and conditions are contained in C-DIT’s Purchase Order No. dated read in conjunction with other aforesaid Contract documents. The Contract shall be only performed by the Contractor strictly and faithfully in accordance with the terms of the Agreement.

The scope of work shall also include supply and installation of all such items which are not specifically mentioned in the contract Documents, but which are needed for successful, efficient, safe & reliable operation of the equipment unless otherwise specifically excluded in the specifications under “exclusions” or Purchase Order.

TIME SCHEDULE: Time is the essence of the contract and schedules shall be strictly adhered to. “X” shall perform the work in accordance with the agreed schedule as given in letter of Indent/Purchase Order.

The Contractor guarantees that the equipment package under the contract shall meet the ratings and performance parameters, as stipulated in the Technical Specifications (Volume II) and in the event of any deficiencies found in the requisite performance figures, the C-DIT may at its option reject the equipment package or alternatively accept it on the terms and conditions and subject to levy of the liquidated damages in terms of Contract Documents. The amount of liquidated damages so leviable shall be in accordance with the Contract Documents and without any limitation.

It is further agreed by the Contractor that the Contract performance Guarantee shall in no way be construed to limit or restrict the C-DIT’s right to recover the damages/compensation due to short-fall in the equipment performance figures as stated in Para 3.4 above or under any other clause of the Agreement. The amount of damages/Compensation shall be recoverable either by way of deduction from the contract price, contract performance guarantee and/or otherwise.

The Contract performance Guarantee furnished by the Contractor is irrevocable and un-conditional and the C-DIT shall have the powers to invoke it notwithstanding any dispute or difference between the C-DIT and the contractor pending before any court, tribunal, arbitrator or any other authority.

This Agreement constitutes full and complete understanding between the parties and terms of the presents. It shall supersede all prior correspondence to the extent of inconsistency of repugnancy to the terms and conditions contained in the Agreement. Any modification of the Agreement shall be effected only by a written instrument signed by the authorized representatives of both the parties.

Article 4.0 SETTLEMENTS OF DISPUTES

It is specifically agreed by and between the parties that all the differences or disputes arising out of the Agreement or touching the subject matter of the Agreement shall be decided by process of settlement & Arbitration as specified in clauses and provisions of the Arbitration and Conciliation Act 1996 and Kerala Courts alone shall have exclusive jurisdiction over the same.

NOTICE OF DEFAULT

Notice of default given by either party to the other party under the Agreement shall be in writing and shall be deemed to have been duly and properly served upon the parties here to if delivered through official email or by registered post with acknowledgement due addressed to the signatories

IN WITNESS WHEREOF, the parties through their duly authorized representatives have executed these presents (execution where of has been approved by the competent authorities of both the parties) on the day, month and year first above mentioned at Trivandrum.

WITNESS

C-DIT

1.

(Signature)

(Name)

2.

(Designation)

(Seal)

1.

(Contractors signature)

(Designation)

(Seal)

