



CENTRAL INSTITUTE OF PETROCHEMICALS ENGINEERING & TECHNOLOGY (CIPET)
FORMERLY CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TECHNOLOGY
: CENTRE FOR SKILLING & TECHNICAL SUPPORT(CSTS) AGARTALA
Department of Chemicals & Petrochemicals,
Ministry of Chemicals & Fertilizers, Govt. of India.
Rubber Park Area, Bodhjunnagar, Sub-division- Mohanpur, Agartala,
Tripura, **Email: cipetagartala@gmail.com,
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Phone: 0381 231 0080
Website: www.cipet.gov.in

**TENDER DOCUMENT FOR “SUPPLY, INSTALLATION,
TESTING & COMMISSIONING OF CCTV SYSTEM AT
CIPET: CSTS-AGARTALA**

Tender No.: CIPET/AGT/CCTV/20-21/01 dated 09-01-2021

Important Dates:

Sl. No.	Event	Date
01	Date of Notice Inviting Tender (NIT)	09-01-2021
02	Last Date for Submission of Tender Document	29-01-2021 (Upto 04:00 pm)
03	Date of Pre-bid Meeting cum Physical Inspection of Site	20-01-2021
04	Date of Opening of Technical Bid	29-01-2021 Time-04:30 PM.
05	Date of Opening of Price Bid	to be opened for Technically qualified bidders

Contact Nos.:

General & Technical Information: **0381 231 0080**

Detail Tender Document for "Supply, Installation, Testing & Commissioning of CCTV System at CIPET: CSTS-Agartala":

Central Institute of Petrochemicals Engineering & Technology (CIPET): Formerly Central Institute of Plastics Engineering & Technology (CIPET): CSTS- Agartala invites Technical & commercial bids separately for Supply, Installation, Testing & Commissioning of CCTV System (security & surveillance systems) at CIPET: CSTS-Agartala from the reputed and experienced Contractors. Details of work to be performed are as under.

Sl. No.	Nature of work	Completion Period	Last date of submission of Tender document
01	Supply, Installation, Testing & Commissioning of CCTV System (security & surveillance systems) at CIPET: CSTS-Agartala.	15 days from the date of Work Order	29-01-2021 (Upto 04:00 Pm)

Interested and eligible bidders may view and download detailed tender documents from CIPET's website www.cipet.gov.in for complete details on technical specification and commercial terms and conditions.

CIPET: CSTS-Agartala reserves the right to extend the date or cancel the tender or to accept or reject any / all the bids/quotation either in part or in full without assigning any reasons thereof.

EMD: **NIL**

Tender Fees: **NIL**

01. Submission of Bids:

Offer should be of two parts Viz., "TECHNICAL BID" and "COMMERCIAL BID". Bids shall remain valid for 120 days after the date of bid opening prescribed by CIPET. A bid valid for a shorter period may be rejected by CIPET as non-responsive. CIPET may, at its discretion, extend this deadline for submission of bids by amending the Bid Documents

02. Scope of Work:

Scope of Work includes the following:

Supply, Installation, Testing & Commissioning of CCTV System (security & surveillance systems) at all Campuses & Hostel of CIPET: CSTS-Agartala. Supply of genuine brand and quality items with One year or warranty as per OEM whichever is higher. The contractor is required to complete installation works with complete finishing as per approved estimate and guidelines. The Contractor shall depute technically trained and experienced manpower for completion of stipulated work without any fault. The firm shall be responsible for supply, installation, testing, commissioning of the CCTVs along with all related accessories to the satisfaction of CIPET: CSTS-Agartala. The contractor should have sufficient manpower on its roll specifically trained and technically qualified and experienced for stipulated work.

03. Qualification Criteria/ Eligibility Condition of the Bidder:

A. Experience of executing similar works for supply & Installation of CCTV Camera to Corporate Offices / Institutions / Central Autonomous Body / PSUs / Private Sector Units / Private Firms / others etc.

B. The Bidder should be OEM (Original Equipment Manufacturer) or Authorized dealer/Distributor/Supplier of the OEM of offered product (Please submit manufacturer's authorization letter, in original, on the OEM's letter head duly signed by authorized signatory).

C. Experience of having successfully completed similar services during the last 2 years ending December 31, 2020 should be either of the following:

- i. Two similar services each costing not less than Rs. 1 Lakh each OR
- ii. One similar services costing not less than Rs. 2 Lakhs. (Similar services means Supply of CCTV Surveillance System)
- iii. The bidder must have after sales services in Agartala, Tripura.
- iv. Bidder must provide necessary supporting documents as proof in respect of the eligibility criteria mentioned above.
- v. Copy of PAN card and GST Registration Certificate.

D. Turnover of the bidder from the similar type of work should be minimum 01 lakh for past Two Financial Year. Copy of Income Tax Return/ Audited Statement of Profit & Loss and Balance Sheet needs to be attached.

04. Warranty/Guarantee:

36 Months from the date of Installation.

The Supplier shall give warranty that goods to be supplied shall be new and free from all defects and faults in material, workmanship, and manufacture and shall be of the highest grade and consistent with the established and generally accepted standards for materials of the type ordered and shall perform in full conformity with the specifications. The Supplier shall be responsible for any defects that may develop under the conditions provided by the supplier and under proper use, arising from faulty materials, design or workmanship such as corrosion of the equipment, inadequate contact protection, deficiencies in circuit design and or otherwise and shall remedy such defects at his own cost when called upon to do so by the Purchaser who shall state in writing in what respect goods are faulty. This warrantee shall survive inspection or payment for, and acceptance of goods, after the goods have been taken over.

If it becomes necessary for the supplier to replace or renew any defective portion/portions of the equipment under this clause, the provisions of the clause shall apply to the portion/portions of equipment's replaced or renewed. If any defect is not remedied within a reasonable time, the Purchaser may proceed to get the work done at the Supplier's risk and expenses, but without prejudice to any other rights which the Purchaser may have against the Supplier in respect of such defects.

Replacement under warranty clause shall be made by the Supplier free of all charges at site including freight, insurance and other incidental charges.

In case the fault cannot be rectified at the premises and the system/equipment needs to be taken out of the premises, vendor shall provide a standby system/equipment of similar/equivalent configuration till the original system / equipment is replaced after rectification. Transportation charges if any, shall be borne by the vendor. The vendor shall be responsible for routine and breakdown maintenance of the equipment during warranty period.

05. Payment:

Payment of contract shall be made the following manner:

01. 95% of Payment will be released with 30 days after Completion of entire work and submission of GST Invoice along with Work Completion report from CIPET Agartala.

02. 5% of Payment will be released at the end of the warranty obligations under the contract.

06. Completion Period & Liquidated damages:

The entire work shall be completed with 15 days from the date of issue of Work Order. Failure to complete the above work with 15 days as above will attract liquidated damages equivalent to 0.5 percent of the Work Order of the delayed goods or unperformed services for each week of delay until actual delivery or performance, up to a maximum deduction of Max of 10% of the delayed goods or services Contract price. Once the maximum is reached, the purchaser may consider termination of the contract.

07. Resolution of Disputes:

The dispute resolution mechanism to be applied shall be as follows:

01. In the case of a dispute or difference of opinion arising between the purchaser and contractor relating to any matter arising out or connected with this agreement, such dispute or difference of opinion shall be referred to Officer (PAF) / In-Charge, CIPET: CSTS-Agartala.

02. The Indian Arbitration Act 1940, the rules there under and any statutory modification or re-enactments thereof, shall apply to the arbitration proceedings.

03. Only Court of Agartala shall have the jurisdiction in any legal proceeding arising in the Contract.

08. Technical Specification:

- i. Annexure-1 for Technical Specification of 2MP IP Bullet & Dome Camera.
- ii. Annexure-2 for Technical Specification of Network Video Recorder (NVR).
- iii. Annexure-3 for Technical Specification of 16 port PoE Switch.

09. Technical Bid details:

(To be filled and signed by the authorized signatory of the firm and this is to be put in separate sealed cover superscripted with Technical Bid for Supply, Installation, Testing & Commissioning of CCTV System at CIPET: CSTS-Agartala)

Central Institute of Petrochemicals Engineering and Technology (CIPET)
Centre For Skilling & Technical Support (CSTS)
Agartala

TECHNICAL BID

TENDER No: CIPET/AGT/CCTV/20-21/01 dated 09-01-2021

Supply, Installation, Testing & Commissioning of CCTV System (security & surveillance systems) at CIPET: CSTS-Agartala

Name of the Bidder		
Sl. No	Particulars To Be filled up by the Tenderer / Bidder:	REMARKS
01	Name & Address of the Organization / Contractor	
02	Type of Organization	
03	Telephone No./ Mobile No	
04	Name of Contact person & Email ID	
05	Firm / Agency Registration No. (enclose copy)	
06	PAN No. (enclose copy)	
07	GST No. (enclosed copy)	

08	Experience of executing similar works for supply & Installation of CCTV Camera to Corporate Offices / Institutions / Central Autonomous Body / PSUs / Private Sector Units / Private Firms / others etc.	
09	The Bidder should be OEM (Original Equipment Manufacturer) or Authorized dealer/Distributor/Supplier of the OEM of offered product (Please submit manufacturer's authorization letter, in original, on the OEM's letter head duly signed by authorized signatory).	
10	Experience of having successfully completed similar services during the last 2 years ending December 31, 2020 should be either of the following: 01. Two similar services each costing not less than Rs. 1 Lakh each or 02. One similar services costing not less than Rs. 2 Lakhs. (Similar services means Supply of CCTV Surveillance System)	
11	Income Tax Returns (ITR)/ Audited Statement of Profit & Loss & Balance Sheet – Last 02 financial years.	
12	Warranty of 36 Months from the date of Completion of Work (Accept / Not Accept)	

Signature with Seal of the Organization

10. Price Bid details:

Central Institute of Petrochemicals Engineering and Technology (CIPET) Centre For Skilling & Technical Support (CSTS) Agartala
TENDER No: CIPET/AGT/CCTV/20-21/01 dated 09-01-2021
Supply, Installation, Testing & Commissioning of CCTV System (security & surveillance systems) at CIPET: CSTS-Agartala

Price Bid					
Name of the Contractor/Firm/Company/Vendor					
Sl. No.	Item Description	Item Make/ Model	Approx Qty	Rate (In Rs.)	Total Value (In Rs.)
1	Outdoor 2 MP HD IP Bullet Camera with Night Vision	Hikvision / CP Plus or Equivalent	14 Nos.		
2	Indoor 2 MP HD IP Dome Camera with Night Vision	Hikvision / CP Plus or Equivalent	16 Nos.		
3	32-CH NVR	Hikvision / CP Plus or Equivalent	1 No.		
4	6 TB HDD	Seagate / WD or Equivalent	1 No.		
5	16 port Poe Switch	Hikvision / CP Plus or Equivalent	2 Nos.		
6	Cat6 Cable	Hikvision / D-Link or Equivalent	900 Mtr		
7	Casing 1"	Reputed Brand (ISI Mark)	100 Mtr		
8	HDMI Cable	Reputed Brand (ISI Mark)	20 Mtr		
9	Wall Mount 4U Rack	Netrack / valrack or equivalent	1 No.		
10	32 inch LED TV / Monitor with wall mount	Samsung / LG or Equivalent	1 No.		
11	Configuration, Installation and Testing Charges of CCTV System	-	-		
Sub-Total					
Add: GST					
Price After GST					
Note: 01. Actual payment will be released based on actual supply & Installation of Ordered Items.					

02. Rate quoted shall be inclusive of material, Labour and other incidental & Installation charges. No other charges will be paid under no circumstances.

03. Cost of additional work / Non-Tender items / Work may be paid extra based on prior written approval from CIPET: CSTS-Agartala.

04. Bidders are requested to quote the price considering all clauses of NIT and rates shall be valid for 120 days from the date of opening Price Technical Bid.

05. CIPET will calculate total price of the Contract based on the rates quoted and order will be issued considering the Value of total work / Contract.

11. Salient information about the Tender No. CIPET/AGT/CCTV/20-21/01 dated 09-01-2021.

01. Mode of submission: **OFFLINE.**

02. Submission of Hard Copy of Tender Document: Hard copies of Tender document needs to be submitted to CIPET: CSTS-Agartala on or before **29-01-2021 (Upto 04:00 PM)**

03. Availability of Tender Documents: All Bid formats (Technical & Commercial) are available at Website www.cipet.gov.in.

04. All pages of Tender documents with Addenda/Corrigenda (if any) must be signed with proper official stamp and date by the Bidders / or authorized power of attorney holders at the lower right hand corner.

05. The bidder must submit hard copies of all document in a sealed envelope superscripting the Tender for "Supply, Installation, Testing & Commissioning of CCTV System (security & surveillance systems) at CIPET: CSTS-Agartala and Tender No. CIPET/AGT/CCTV/20-21/01 dated 09-01-2021. The bidder has to submit "Technical Bid" & Commercial Bid" separately in two separate Sealed Envelope superscripting **"Technical Bid for Tender No. CIPET/AGT/CCTV/20-21/01 dated 09-01-2021."** and **"Price Bid for TENDER No: CIPET/AGT/CCTV/20-21/01 dated 09-01-2021"** Hard copies must reach at the following address on or before **29-01-2021 (upto 04:00 pm):**

**Officer (PAF) / In-Charge,
CIPET Agartala, Rubber Park Area,
Bodhjungnagar,
Sub-division- Mohanpur,
Agartala, Tripura- 799 008**

06. Date of Pre-bid meeting- **20-01-2021**. Date & Time of Technical Bid Opening: **29-01-2021** at 04:00 PM.

07. Date & Time of Commercial Bid Opening: Technically qualified bidders will be intimated time after technical bid evaluation.

08. Venue for pre bid meeting & Opening Bids: Pre-bid meeting at CIPET Agartala, Rubber Park Area, Bodhjunnagar, Sub-division Mohanpur, Agartala, Tripura (West). Opening of Technical Bid & Finance Bid will be done online on the date mentioned above.

CIPET: CSTS-Agartala reserves the absolute right to accept/reject any or all bids at any stage of the tender process without assigning any reason whatsoever.

**Officer (PAF) / In-Charge,
CIPET: CSTS-Agartala**

Annexure-1	
Technical Specification of 2MP IP Bullet & Dome Camera	
Parameter	Description
Image Sensor	1/2.9" CMOS
Signal System	PAL/NTSC
Min. Illumination	Color: 0.02Lux@ (F2.0, ACG ON), B/W: 0Lux with IR
Shutter Time	1s to 1/100,000s
Day & Night	Dual IR Cut Filter with Auto Switch
Wide Dynamic Range	Digital WDR
Angle Adjustment	Bracket, pan: 0° to 360°, tilt: 0° to 75°, rotate: 0° to 360°
Lens	
Lens Type	Fixed
Focus	4mm
Lens Mount	M12

Aperture	F2.0, Fixed
FOV	Horizontal field of view: 82.1°
Illuminator	
IR LEDs	2
IR Range	Up to 50 m
Wavelength	850nm
Compression Standard	
Video Compression	S+265/H.265/H.264
Video Bit Rate	32 Kbps to 6 Mbps
Image	
Max. Resolution	1920×1080
Main Stream	PAL: 25fps (1920×1080, 1280×960, 1280×720, 704×576, 640×480) NTSC: 30fps (1920×1080, 1280×960, 1280×720, 704×480, 640×480)
Sub Stream	PAL: 25fps (704×576, 704×288, 640×360, 352×288) NTSC: 30fps (704×480, 704×240, 640×360, 352×240)
Third Stream	N/A
Image Setting	Saturation, brightness, contrast, sharpness, adjustable by client software or web browser
Image Enhancement	BLC/3D DNR/HLC
ROI	N/A
OSD	16×16, 32×32, 48×48, adaptable size, Letters Such as Week, Date, Time, Total 1 Regions
Privace Mask	Yes
Smart Defog	Yes
Feature	
Alarm Trigger	Motion Detection/IP Conflict/MAC Conflict/Mask Alarm
Intelligent Coding	Yes
Intelligent Image	Yes

Intelligent Alarm	Yes
Network	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, DHCP, DNS, DDNS, MULTICAST, UPnP, FTP, IPV4, NTP, RTSP, IGMP, QoS
System Compatibility	ONVIF (PROFILE S), SDK, P2P
Remote Connection	≤7
Client	Easy7, EasyLive
Web Version	Web5
Interface	
Communication Interface	1 RJ45 10M/ 100M self adaptive Ethernet port
General	
Firmware Version	NVSS_V13.2.1.20190612_SP1
Web Client Language	11 languages English, Russian, Spanish, Korean, Italian, Turkish, Simple Chinese, Traditional Chinese, Thai, French, Polish
Operating Conditions	-35°C~65°C, 0~95% RH
Power Supply	DC 12V±20%, PoE (802.3af)
Power Consumption	MAX: 6W(12V) MAX: 7W(POE)
Protection	IP67
Dimensions	208×82×81 mm (8.19×3.23×3.19 inch)
Certification	CE, FCC, BIS or UL, ISO9001-14001

Annexure-2	
Technical Specification of Network Video Recorder (NVR)	
Video Input	32-ch
Max Resolution	12MP

Two-way Audio Input	1-ch, 3.5mm
Bandwidth	Income 320Mbps; Outgoing 320Mbps
Output	
HDMI/VGA Output	HDMI 2-ch, 3840×2160, 2560×1600, 2560×1440, 1920×1080, 1440×900, 1366×768, 1280×800,1280×720,1024×768, 800×600
	VGA 2-ch, 1920×1080, 1440×900, 1366×768, 1280×800, 1280×720, 1024×768, 800×600
Screen Split	1/3/4/6/8/9/10/13/16/20A/20B/25/32/36/40/64
Audio Output	1x3.5mm, 1xBNC
Decoding	
Decoding Format	S+265H.265/H.264
Recording Resolution	12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Preview Capability	2×12MP, 4×8MP, 4×6MP, 5×5MP, 8×4MP, 9×3MP, 16×1080P, 32×720P, 40×4CIF
Synchronous Playback	2×12MP, 4×8MP, 4×6MP, 5×5MP, 8×4MP, 9×3MP, 16×1080P, 16×720P
Records Encryption	Yes
Hard Disk	
SATA	8 SATA interfaces for 8 HDDs
Capacity	Up to 10TB for each HDD
eSATA Interface	1 SATA interface
Array Type	JBOD, RAID0/1/5/6/10
External Interface	
Network Interface	2xRJ45 self-adaptive 10/100/1000 Mbps network interfaces
USB Interface	2xUSB 2.0, 1xUSB 3.0
Serial Interface	2xRS-485, 1xRS-232
Alarm In/Out	
Network	

Protocol	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, IGMP, QoS, IPV4, IPV6, Multicast, ARP, UDP, SNMP, SSL, Telnet, RTMP, NFS
System Compatibility	ONVIF (PROFILE S/T), SDK, P2P
General	
Web Version	WEB6
Language	Simple Chinese, Traditional Chinese, English, Spanish, Korean, Italian, Turkish, Russian, Thai, French, Polish, Dutch, Hebraism, Arabic, Vietnamese
Operating Conditions	-10°C~55°C, 10%~90% RH
Power Supply	AC100~240V, 50/60HZ
Consumption (without HDD)	≤80W (without HDD)
Chassis	2U
Dimensions	94×440×460mm, (3.7×17.32×18.11 inch)
Weight (without HDD)	7.2Kg (15.87lb)
Certification	CE, FCC, BIS or UL, ISO9001-14001

Annruxure-3	
Technical Specification of 16 port PoE Switch	
10/100/1000BASE-T Copper Ports	24 auto-MDI/MDI-X ports
802.3af/802.3at PoE Injector Ports	16
1000BASE-X SFP	2
Switch Architecture	Store-and-Forward
Switch Fabric	52Gbps/non-blocking
Switch Throughput@64 bytes	38.6Mpps 64 bytes
MAC Address Table	8K entries
Jumbo Frame	9216 bytes

Flow Control	IEEE 802.3x pause frame for full-duplex; back pressure for half-duplex
LED	System: Power (Green)
	10/100/1000T RJ45 Interfaces
	1000 LNK / ACT (Green), 10/100 LNK/ACT (Orange), PoE (Orange)
	1000Mbps SFP Interfaces
	1000 LNK / ACT (Green)
Dimensions (W x D x H)	445 x 207 x 45 mm (1U height)
Enclosure	Metal
Weight	2.5kg
Power Requirements	100~240V AC, 50/60Hz, 4A (max.)
Fanless Design	yes
PoE Standard	IEEE 802.3af Power over Ethernet/PSE
	IEEE 802.3at Power over Ethernet Plus/PSE
PoE Power Supply Type	End-span
Power Pin Assignment	1/2(+), 3/6(-)
PoE Power Output	Per port 54V DC, 300mA. max. 15.4 watts (IEEE 802.3af)
	Per port 54V DC, 600mA. max. 30 watts (IEEE802.3at)
PoE Power Budget	300 watts
Number of PDs, 7 watts	16
Number of PDs, 15.4 watts	16
Number of PDs, 30 watts	10
EMI Safety	CE/LVD EN60950, RoHS
Warranty	3Yrs
Standard Compliance	IEEE 802.3 10BASE-T

	IEEE 802.3u 100BASE-TX
	IEEE 802.3ab Gigabit 1000BASE-T
	IEEE 802.3z Gigabit SX/LX
	IEEE 802.3x flow control and back pressure
	IEEE 802.3af Power over Ethernet
	IEEE 802.3at High Power over Ethernet
	IEEE 802.3az Energy-Efficient Ethernet
Operating Environment	Temperature: 0 ~ 50°C
Storage Environment	Temperature: -10 ~ 70°C
Operating Humidity	Relative Humidity: 5 ~ 95% (non-condensing)
Storage Humidity	Relative Humidity: 5 ~ 95% (non-condensing)

END OF TENDER DOCUMENT