

**Tender Document for Procurement & Commissioning of
IP Based Video Surveillance System (CCTV)
at Chhattisgarh State Electricity Regulatory Commission**

Tender No. CSERC/06/2024

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Chhattisgarh State Electricity Regulatory Commission

“Vidyut Niyamak Bhawan”

Irrigation Colony, Shanti Nagar, Raipur-492001

Phone: 0771-4050792, Website: www.cserc.gov.in, Email: cserc.sec.cg@nic.in

Tender Notice

Chhattisgarh State Electricity Regulatory Commission (hereinafter called “CSERC”) invites bids for supply, installation, testing and commissioning of IP based video surveillance system (CCTV) at its office at “Vidyut Niyamak Bhawan”, Irrigation Colony, Shanti Nagar, Raipur.

Tender No.& Date	:	CSERC/06/2024 dated 23/08/2024
Reference No.	:	13-Esstt./2024/1706
Description	:	Supply, installation, testing and commissioning of IP based video surveillance system (CCTV) at CSERC
Last date for submission	:	19/09/2024, 3:00 PM
Date of Opening	:	19/09/2024, 3:30PM
Venue of Opening	:	CSERC “Vidyut Niyamak Bhawan” Irrigation Colony, Shanti Nagar, Raipur-492001
Tender Fee	:	Rs. 200/- (Rupees two hundred only) (Non-transferable and non-refundable)
Earnest Money Deposit (EMD)	:	Rs. 5000/- (Rupees Five Thousand only)

Dy. Secretary
CSERC, Raipur

Eligibility Criteria

- The Bidder should be OEM or Authorized Dealer/Distributor/System Integrator/ Company/Firm of the OEM of the offered product.
- Bidder should have experience of having successfully completed similar project during the last 3 years.
- Any Government /Government agency/ Banks/ Financial Institutions in India should not have blacklisted the bidder during the last 5 years. Self-declaration to that effect should be submitted along with the technical bid.
- The firm must possess valid GST registration number (attested copies of all the certificates should be submitted along with the proposal).
- Financial bid of any participant shall be considered for opening only after the EMD is found in order and the participant complies with the eligibility criteria as mentioned above.
- Bidder must provide necessary supporting documents as proof in respect of the eligibility criteria mentioned above.

Scope of Work

- Installation of CCTV cameras at preferred locations covering the whole common area including entrance to floors, corridor and sections.
- Supply, installation, testing and commissioning of items mentioned in BoM, F.O.R destination.
- All the products and their warranty certificates shall be issued in the name of Chhattisgarh State Electricity Regulatory Commission, Raipur
- All cameras should be IP based.
- The IP based video surveillance system shall be a hybrid system with distributed architecture having control station at the server room/control office & viewing facility at the Asst. Director's cabin and reception.
- A network, comprising a 8-port PoE switch connected with CAT6, shall be laid for transmission of signal from cameras to the Control Stations. The main control station have the facility for video storage and further control. The sub-control station at reception shall have the TV for monitoring the video only.
- The proposed system should allow CSERC officials to locally and centrally monitor its facilities from a remote location on a portable/fixed personal computer monitor.
- The system should capture, store, and analyse digital video images to enable central monitoring, increase operational efficiency, reduce liability, minimize risk and secure people & property.
- After commissioning the Video surveillance system, the same shall be demonstrated for all its capabilities to the relevant user department to make them familiar with the system.

- Once the order is placed, it will be the vendors' responsibility to make the project functional. Any additional cost incurred for completing the project and for which the vendor has not bid at the time of submission of the final offer will be borne by the vendor.
- The CCTVs surveillance system need to be functional on 24x7 basis i.e. 24 hours all the days and need to have at least 20 days data storage capacity for all cameras.

Terms and Conditions

1. The sealed bids are to be submitted in prescribed format on your business letter head duly stamped and signed and dated on each page of Part 'A' & 'B' as their unconditional acceptance to the terms prescribed by the CSERC, details/supporting documents wherever applicable, if attached with the bids, should be duly authenticated by the vendor/s. No overwriting shall be accepted unless authenticated with full signature of the vendor/s.
2. Each bidder shall submit the offer in two separate sealed envelopes, Part A & Part B. Envelop No. 1 (mark the envelope as "No.1 Part A - Technical Bid"), Envelop No. 2 will contain only Part 'B' (mark the Envelope as "No.2 Part B- Financial Bid"). Both the sealed envelopes bearing No. 1 and 2 are to be put in the main envelop i.e. Envelop No.3.
3. The bids should be duly super scribed "Supply, installation and commissioning of IP based video surveillance system (CCTV) at CSERC". The bids should be addressed by name to 'The Dy. Secretary' and sent at the office address of CSERC at the address given below either by registered post/speed post/or by dropping in the tender box placed at CSERC & should reach on or before the last date and time.

Address:

The Dy. Secretary,
Chhattisgarh State Electricity Regulatory Commission,
"Vidyut Niyamak Bhawan"
Irrigation Colony, Shanti Nagar,
Raipur (C.G.) -492001,
Ph: 0771-4050792

4. Bids received after the stipulated date and time shall not be entertained. CSERC shall not be liable for any postal delays what so ever and tender received after the stipulated time/date are liable to be rejected summarily without giving any reason.
5. The technical bid shall be opened on the scheduled date and time at the office of the CSERC in the presence those bidder (s) who wish to be present. No separate communication will be sent in this regard. In the event of due date being a declared Holiday for the State Government offices, the due date for opening of the bids will be the following working day at the appointed date, time & venue.
6. CSERC shall have the right to assess the competencies and capabilities of the bidder by going through the credentials given in the technical bid and on the basis of such credentials, CSERC may reject the candidature of the bidder without assigning any reason. In such case(s) the financial bid shall not be opened for that particular bidder. The financial bid of only those parties who qualify in the technical scrutiny shall be opened and time and date for opening the financial bid shall be intimated separately.
7. Prices quoted should be FOR CSERC premises at Raipur and should be inclusive of all charges.

8. Delivery and installation should be completed within four weeks from the date of the confirmed purchase order.
9. The tender shall be valid for at least 90 days from the date of opening of tender.
10. The fee of tender form/Earnest Money Deposit (EMD) will be received in the form of Demand Draft/Bankers cheque in favour of Chhattisgarh State Electricity Regulatory Commission, payable at Raipur. This has to be included in the Envelop No. 1 (Part A - Technical Bid). The EMD submitted by unsuccessful bidders will be returned after finalisation of the tender process. The details regarding tender fee and EMD are included in the tender notice.
11. Tender fee and EMD is also acceptable in cash, in such case tender fee and EMD shall be deposited in advance, before due date of submission and copy of money receipt issued by the CSERC office shall be enclosed with the bid
12. EMD in the form of cheques shall not be accepted.
13. No interest shall be paid on amount deposited as EMD.
14. The firms who have been exempted from paying EMD and tender fee has to submit the necessary supporting documents along with the technical bid.
15. The EMD of successful bidder shall be released only after the due fulfillment of the contract. If the successful bidder fails to execute the contract after intimation of the acceptance of his bid, then EMD received from the bidder shall be forfeited.
16. The payment terms are 30 days for 100% payment upon successful installation, commissioning and acceptance of the supplied material. Vendor will be fully responsible for comprehensive technical support free of charge during the warranty period and in case of default, CSERC will have the right to arrange maintenance at vendor's risk and cost.
17. All disputes, differences, claims and demands arising under or pursuant to or touching the contract shall be subject to exclusive jurisdiction of competent court of Raipur (C.G.) only.
18. The CSERC reserves the right to accept or reject any or all tender including the lowest tender/s without assigning any reason at its sole discretion and the decision of CSERC will be final and binding on all concerned.
19. The quantities indicated in BOM are tentative and may be increased at the sole discretion of CSERC and the vendor shall have no right to claim any minimum/definite volume of business.
20. For any technical details/clarifications, Dy. Secretary, CSERC would be the point of contact.
21. Rates shall be quoted both in words & figures in the financial bid enclosed. Rate quoted shall remain firm throughout the validity period of 90 days. In case of deviation of rates in figures and words, rates quoted in words shall prevail.
22. After acceptance of rates the CSERC will not pay any extra charges for any reasons whatsoever, even in case the bidder later on claims to have misjudged the conditions of the bid.

23. It shall not be binding for the CSERC or its officers to accept the lowest bid. The authority for the acceptance of the bid will rest with the CSERC. CSERC reserve the right to reject any or all bid without giving any reason whatsoever.
24. These conditions of bidder shall form part of the contract and any breach of the terms of this notice shall be deemed to be a breach of the contract.

Special Conditions

- **Completion Certificate:** Work completion certificate shall be issued only after completion of work in all respect as per RFP and to the entire satisfaction of CSERC.
- **Training:** Upon completion of the installation & commissioning, the successful bidder shall provide the hands-on training on the installed equipment to the concerned officials along with the training materials on the equipment installed at CSERC.
- **Warranty Period:** All the equipment, active and passive components supplied against this RFP shall have **warranty for a period of 3 (Three)** years from the date of installation and commissioning.
- Bidders should share all the relevant firmware/OS/Patches etc. as and when they are released by OEM during entire warranty period at no cost to CSERC.
- The vendor will liaison on behalf of CSERC, with other different OEMs for repairing or replacing of equipment(s) and all other accessories during warranty period.
- Successful bidder shall deposit 5% of the total value of the order towards security deposit in the form of Demand Draft/Bank Guarantee in favour of "Chhattisgarh State Electricity Regulatory Commission" payable at Raipur and execute an agreement in stamp paper worth Rs. 50/- at vendor cost within 7 days from the date of receipt of purchase order. The security deposit will be released within three months after the expiry of the warranty period.

SPECIFICATION

Network Video Recorder

Feature	Specification
IP Camera Input	32 Channel
Two-way Talk	1 Channel, RCA
Interface	HDMI, VGA
Resolution	3840 × 2160, 1920 × 1080, 1280 × 1024, 1280X720, 1024X768
On Screen Display	Camera title, Time, Camera lock, Motion detection, Recording
Compression	H.265/H.264
Recording Resolution	12MP
Incoming Bandwidth	320 Mbps or higher
Record Mode	Manual, Schedule (Regular, Motion Detection, Alarm, IVS), Stop
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss and Tampering
Alarm Input/ Output	16 Channel/4 Channel
Synchronous Playback	16 Channel
Search Mode	Time, Date, Alarm, MD and Exact Search (accurate to second)
Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection, Digital Zoom
Backup Mode	USB Device/Network/eSATA Device
Network interface	2 RJ-45 Ports (10/100/1000Mbps)
Network protocols	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, DDNS, FTP
Max. User Access	128 users
Interoperability	ONVIF 2.4
Internal HDD	4 SATA Ports, Up to 6TB each
Ports	3 USB Ports, RS485
Installation	Rack-mounted
Software	Necessary software to be included
Preferred make	CP Plus, Dahua, Hikvision,

IP Camera – Dome Network Camera

Feature	Specification
Image Sensor	1/3" 4 Megapixel progressive CMOS
Scanning System	Progressive
S/N Ratio	More than 50dB
IR Range	up to 30 mtr.
Compression	Smart H.265+/H.264
Resolution	Maximum 4M (2560x1440) or higher
Ethernet	RJ-45 (10/100Base-T)
Noise Reduction	3D DNR
Management Software	Should be provided
Power Compatibility	PoE Should be supported
Preferred make	CP Plus, Dahua, Hikvision,

IP Camera – Bullet Network Camera

Feature	Specification
Image Sensor	1/3” 4 Megapixel progressive CMOS
Scanning System	Progressive
S/N Ratio	More than 50dB
IR Range	up to 50mtr.
Compression	Smart H.265+/H.264
Resolution	Maximum 4M (2560x1440)
Noise Reduction	3D DNR
Ethernet	RJ-45 (10/100Base-T)
Management Software	Should be provided
Power compatibility	PoE Should be supported
Preferred make	CP Plus, Dahua, Hikvision,

IP Camera – Bullet Network Camera

Feature	Specification
Image Sensor	1/3” 4 Megapixel progressive CMOS
Scanning System	Progressive
S/N Ratio	More than 50dB
IR Range	up to 80mtr.
Compression	Smart H.265+/H.264
Resolution	Maximum 4M (2560x1440)
Noise Reduction	3D DNR
Ethernet	RJ-45 (10/100Base-T)
Management Software	Should be provided
Power compatibility	PoE Should be supported
Preferred make	CP Plus, Dahua, Hikvision,

IP Camera and Network Video Recorder should be on same make

Bill of Material

Sl No	Item	Qty	Unit
1	IP Based Dome Camera as per specification (30 Mtr.)	9	Nos
2	IP Based Bullet Camera as per specification (50 Mtr.)	3	Nos
3	IP Based Bullet Camera as per specification (80 Mtr.)	4	Nos
4	32 Channel Network Video Recorder as per Specification	1	No
5	6 TB Surveillance hard disk	1	No
6	8 Port PoE (10/100/1000) managed switch	5	No
7	Supply and fixing of 19", 9U, 600x550mm Network Rack with ACDB 6 port, Mounting Kit, cable manager, 4 nos fan for cooling rack, Cable Manager, Cable tray, PDU-6 nos, Front & Back Door etc with extra lock and key. Preferred make :Netrack, Valrack, or reputed brand	1	Nos
8	Supply and laying of CAT 6 Indoor UTP cable EU, ROHS/ELV complaint including material and labour charges. Approximate length.	300	Mtr
9	Supply and laying of CAT 6 Outdoor UTP cable EU, ROHS/ELV complaint including material and labour charges. Approximate length.	300	Mtr
10	Supply and fixing of 25 mm medium gauge PVC ivory conduit/loval/capping casing with special confirming to ISI standard on surface using suitable size fixtures spacing ot exceeding 50 cm including making good the damage colour washing etc as required - Approximate length.	300	Mtr
11	RJ 45 Connectors	32	Nos.
12	Accessories, connectors, etc. (if any)		Lumpsum
13	Testing, Installation charge		Lumpsum

Part A. Technical Bid

CHHATTISGARH STATE ELECTRICITY REGULATORY COMMISSION

Irrigation Colony, Shanti Nagar, Raipur 492003

Profile of the Bidder

Supply, installation and commissioning of IP Based Video Surveillance System (CCTV) at Chhattisgarh State Electricity Regulatory Commission, Raipur

1.	Name and complete address of the Tendered Company	
2.	Tele/Fax/E-mail/Cell No. of the Tendered Company	
3.	Contact person's name & designation and telephone No.	
4.	Details of registered office, if any, along with contact person's name and tele. No.	
5.	Legal status i.e. public / private limited / any other along with documentary evidence.	
7.	Income-Tax registration number along with documentary evidence.	
8.	GSTIN number along with documentary evidence.	
9.	List of existing major clients to whom IP based network surveillance implemented in last 3 years, installed and implemented with details of company, value of business, concerned person name & his telephone no. (Please attach full details)	

Date

Name and Signature of Bidder
with Corporate Seal

Annexure – I : Technical Compliance

Technical compliance to be filled in the letterhead of the bidder and duly signed by the signing authority. To be submitted along with the technical bid.

Network Video Recorder

Make & Model:

Feature	Specification	Compliance (Yes/No)	Reason Deviation (if any)
IP Camera Input	32 Channel		
Two-way Talk	1 Channel, RCA		
Interface	HDMI, VGA		
Resolution	3840 × 2160, 1920 × 1080, 1280 × 1024, 1280X720, 1024X768		
On Screen Display	Camera title, Time, Camera lock, Motion detection, Recording		
Compression	H.265/H.264		
Recording Resolution	12MP		
Incoming Bandwidth	320 Mbps or higher		
Record Mode	Manual, Schedule (Regular, Motion Detection, Alarm, IVS), Stop		
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss and Tampering		
Alarm Input/ Output	16 Channel/4 Channel		
Synchronous Playback	16 Channel		
Search Mode	Time, Date, Alarm, MD and Exact Search (accurate to second)		
Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection, Digital Zoom		
Backup Mode	USB Device/Network/eSATA Device		
Network interface	2 RJ-45 Ports (10/100/1000Mbps)		
Network protocols	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, DDNS, FTP		
Max. User Access	128 users		
Interoperability	ONVIF 2.4		
Internal HDD	4 SATA Ports, Up to 6TB each		

Ports	3 USB Ports, RS485		
Installation	Rack-mounted		
Software	Necessary software to be included		
Preferred make	CP Plus, Dahua, Hikvision,		

IP Camera – Dome Network Camera

Make & Model:

Feature	Specification	Compliance (Yes/No)	Reason Deviation (if any)
Image Sensor	1/3” 4 Megapixel progressive CMOS		
Scanning System	Progressive		
S/N Ratio	More than 50dB		
IR Range	up to 30 mtr.		
Compression	Smart H.265+/H.264		
Resolution	Maximum 4M (2560x1440) or higher		
Ethernet	RJ-45 (10/100Base-T)		
Noise Reduction	3D DNR		
Management Software	Should be provided		
Power Compatibility	PoE Should be supported		
Preferred make	CP Plus, Dahua, Hikvision,		

IP Camera – Bullet Network Camera (50 Mtr.)

Make & Model:

Feature	Specification	Compliance (Yes/No)	Reason Deviation (if any)
Image Sensor	1/3” 4 Megapixel progressive CMOS		
Scanning System	Progressive		
S/N Ratio	More than 50dB		
IR Range	up to 50mtr.		
Compression	Smart H.265+/H.264		
Resolution	Maximum 4M (2560x1440)		
Noise Reduction	3D DNR		
Ethernet	RJ-45 (10/100Base-T)		
Management Software	Should be provided		
Power compatibility	PoE Should be supported		
Preferred make	CP Plus, Dahua, Hikvision,		

IP Camera – Bullet Network Camera (80 Mtr.)

Make & Model:

Feature	Specification	Compliance (Yes/No)	Reason Deviation (if any)
Image Sensor	1/3” 4 Megapixel progressive CMOS		
Scanning System	Progressive		
S/N Ratio	More than 50dB		
IR Distance	Distance up to 80mtr.		
Compression	Smart H.265+/H.264		
Resolution	Maximum 4M (2560x1440)		
Noise Reduction	3D DNR		
Ethernet	RJ-45 (10/100Base-T)		
Management Software	Should be provided		
Power compatibility	PoE Should be supported		
Preferred make	CP Plus, Dahua, Hikvision,		

Part B. Financial Bid

CHHATTISGARH STATE ELECTRICITY REGULATORY COMMISSION

Irrigation Colony, Shanti Nagar, Raipur 695003

PART B. FINANCIAL BID

Supply, installation and commissioning of IP Based Video Surveillance System (CCTV) at Chhattisgarh State Electricity Regulatory Commission, Raipur

Sl. No	Item	Qty	Unit	Unit Rate	Amount (Rate x Qty)	Total Tax	Total Amount (Amount + Total tax)
1	IP Based Dome Camera as per specification (30Mtr.)	9	Nos				
2	IP Based Bullet Camera as per specification (50 Mtr.)	3	Nos				
3	IP Based Bullet Camera as per specification (80 Mtr.)	4	Nos				
4	32 Channel Network Video Recorder as per Specification	1	No				
5	6 TB Surveillance hard disk	1	No				
6	8 Port PoE (10/100/1000) managed switch	5	No				
7	Supply and fixing of 19", 9U, 600x550mm Network Rack with ACDB 6 port, Mounting Kit, cable manager, 4 nos fan for cooling rack, Cable Manager, Cable tray, PDU-6 nos, Front & Back Door etc with extra lock and key. Preferred make :Netrack, Valrack, President	1	Nos				
8	Supply and laying of CAT 6 Indoor UTP cable EU, ROHS/ELV complaint including material and labour charges. Approximate length.	300	Mtr				
9	Supply and laying of CAT 6 Outdoor UTP cable EU, ROHS/ELV complaint including material and labour charges. Approximate length.	300	Mtr				

10	Supply and fixing of 25 mm medium gauge PVC ivory conduit/loval/capping casing with special confirming to ISI standard on surface using suitable size fixtures spacing ot exceeding 50 cm including making good the damage colour washing etc as required - Approximate length.	300	Mtr				
11	RJ 45 Connectors	32	Nos.				
12	Accessories, connectors, etc. (if any)		Lump sum				
13	Testing, Installation charge		Lump sum				
	Grand Total						

Date

Name and Signature of
Bidder with Corporate Seal