

DELHI ELECTRICITY REGULATORY COMMISSIONTENDER DOCUMENTOctober 2019

Tender No. F.2(96)/Estt./DERC/2016-17/

Name of work: **Supply, Installation, Testing and Commissioning (SITC) of IP based CCTV Cameras with supporting peripherals in the premises of DERC.**

Complete bid document which includes Notice Inviting Tender Sheet, General Terms and Conditions, Technical Bid, Financial Bid and Formats etc. can be downloaded from DERC website: www.derc.gov.in. Any amendment(s)/ corrigendum / clarifications with respect to this Bid shall be uploaded on the above website only. The Bidder should regularly follow up for any Amendment / Corrigendum / Clarification on the above website.

Sub: Tender for the Supply, Installation, Testing and Commissioning (SITC) of IP based CCTV Cameras with supporting peripherals in the premises of DERC.

Dear Sir/Madam,

1. The Commission intends to carry out the work, which includes Supply, Installation, Testing and Commissioning of IP based CCTV Cameras with supporting peripherals in the premises of DERC.
2. The **Notice Inviting Tender sheet** is enclosed at **Annexure 1**.
3. The **General Terms & Conditions** are enclosed at **Annexure 2**.
4. The **Technical Bid** to be submitted in the letter head of the bidder in the format provided at **Annexure 3**.
5. The **Technical Specifications** for SITC of CCTV works to be submitted in the letter head of the Bidder and to be submitted along with **Technical Bid** are enclosed at **Annexure 4**.
6. The **Financial Bid** to be submitted in the letter head of the Bidder in sealed cover as per schedule of requirement is enclosed at **Annexure 5**.
7. Format of 'Performance Bank Guarantee' (PBG) is enclosed at **Annexure 6**.
8. The last date and time of receipt of tender is 04.11.2019 at **1500 Hrs**.
9. Tenders received after stipulated date and time will not be considered. The Tenders received within the stipulated date and time will be opened by the Purchase & Works Committee as per following schedule:
 - **Technical Bid:** Last date of submission i.e. 04.11.2019 at **1600 Hrs**.
 - **Financial Bid:** Bid opening will be intimated by DERC to qualified bidders after technical evaluation.

(Mahesh Bhatt)
Executive Assistant

Annexure-1

Notice Inviting Tender sheet		
Tender No :	F.2(96)/Estt./DERC/2016-17/	
Organization Name :	DELHI ELECTRICITY REGULATORY COMMISSION	
Contact Details	Official's Name	Mahesh Bhatt, Executive Assistant
	Address	O/o the Secretary ,DERC ,Viniyamak Bhawan, C -Block, Shivalik, Malviya Nagar, New Delhi -110017 PH : 011-26673608/41080417
	City	New Delhi
Name of Work :	Supply, Installation, Testing and Commissioning (SITC) of IP based CCTV Cameras with supporting peripherals in the premises of DERC.	
Mode of Tender Submission :	Sealed bid	
Tender Type :	Open	
Type of Contract:	Works	
Last date & time of submission of tender document :	04.11.2019 at 15.00 hrs	
Date & time of opening of technical bid :	04.11.2019 at 16.00 hrs	
Base Currency :	INR	
Payment Details		
EMD Amount (INR):	Rs.25000/- (Rupees Twenty Five Thousand Only)	
Bid Validity Period (Days):	60 Days	
Project Duration :	30 days	
Eligibility Criteria :	<ol style="list-style-type: none"> 1. The Bidder should be either an original equipment manufacturer of Mobotix/ Pelco/ Axis/ Bosch/ Panasonic make or their authorized dealer. 2. Average annual financial turnover of the Bidder during the last three years, ending 31st March 2019 should be Rs. 10 Lakhs. 3. The Bidder should have experience of having successfully completed similar works during last five Years ending previous day of last date of submission of tender: <ol style="list-style-type: none"> a. Three similar completed works each costing not less than Rs.4.5 Lakhs or b. Two similar completed works each costing not less than Rs.5.5 Lakhs or c. One similar completed work costing not less than Rs.9 Lakhs <p>(Similar work means: SITC of IP based CCTV Cameras)</p> <ol style="list-style-type: none"> 4. The Bidder should have Goods and Service Tax (GST) registration. 5. The Bidder should either have EPF registration or submit a self declaration that EPF is not applicable to the Bidder, with reasons thereof. 6. The Bidder should either have ESI registration or submit a self declaration that ESI is not applicable to the Bidder, with reasons thereof. 7. The Bidder shall file a self-declaration that they have not been black listed/debarred by any department of Central / State Government/ PSU in last 5 years 	
Documents to be submitted :	<ol style="list-style-type: none"> 1. A Power of Attorney duly notarised by the Notary Public, indicating that the person(s) signing the bid has the authority to sign the bid and that the bid is 	

- binding upon the Bidder during the full period of its validity.
2. A document showing OEM status of the Bidder, or their authorized dealer.
 - a. UL Certification for the quoted modal.
 - b. Authorization Letter/Certificate (MAF) from Manufacturer to the bidder for supply of the quoted products and support for their services/spares.
 3. A document showing the financial turnover of the Bidder during last 3 years, certified by the CA or copy of the audited Balance sheet and Profit & Loss accounts duly signed by Auditor for last 3 years.
 4. Completion certificates/Award letter of works.
 5. Goods and Service Tax (GST) registration letter.
 6. Copy of PAN card of the bidder.
 7. EPF registration letter/self declaration regarding its non-applicability.
 8. ESI registration letter/self declaration regarding its non-applicability.
- Note-
1. EMD in the shape of Demand Draft in favour of "Secretary, Delhi Electricity Regulatory Commission, New Delhi" should be of exact amount and should not have been issued by the bank before the date on which NIT was published on DERC website.
 2. The Bidder shall attach self attested photo copies of the above documents along with the bid.
 3. The Bidders furnishing false /fabricated experience certificate /documents shall be debarred from participating in DERC future tenders.

(Mahesh Bhatt)
Executive Assistant

Annexure 2

General Terms & Conditions

1. **Description of Work.** Supply, Installation, Testing and Commissioning (SITC) of IP based CCTV Cameras with supporting peripherals in the premises of DERC.
2. **Earnest Money Deposit.** Bidders are required to submit Earnest Money Deposit (EMD) for an amount of **Rs.25000/-** along with their bids. However, Bidders registered with Micro Small and Medium Enterprises / National Small Industries Corporation (MSME/NSIC) are exempted from depositing EMD as per the provisions of GFR 181. The EMD is to be submitted in the form of an Account Payee Demand Draft in favour of "*Secretary, Delhi Electricity Regulatory Commission*" payable at New Delhi from any of the Public Sector Banks. The EMD or MSME/NSIC certificate is to be submitted in a separate sealed envelope which shall be opened first. In case, there is no appropriate EMD or MSME/NSIC certificate in that envelope, then the Technical & Financial Bids will not be opened for that Bidder. Bids without EMD will be rejected as non responsive.
3. EMD of the unsuccessful bidders will be returned after the award of the contract. EMD of the successful bidder shall be returned after signing of Agreement, Indemnity Bond and submission of Performance Bank Guarantee (PBG).
4. **Manner of depositing the Bids**
 - i. **Bids shall be submitted in three envelopes, namely;**
 - (i) Earnest Money Deposit
 - (ii) Technical bid along with technical specification
 - (iii) Financial bid

The envelopes shall mention name of assignment and content of envelope (Technical Bid/Financial Bid/EMD) at the top, and the name of the submitting bidder at the left hand corner of the envelope. The bids shall be submitted in the enclosed formats.
 - ii. **These three envelopes shall be sealed in a large envelope. This envelope shall mention name of assignment at the top and the name of the submitting bidder at the left hand corner of the envelope.**
 - iii. Earnest Money Deposit of Rs. 25000/- (Rupees Twenty Five Thousand only) in form of Demand Draft in favour of Secretary, DERC, payable at New Delhi, shall be kept in a separate sealed envelope. **In case, separate envelope carrying suitable EMD is not found in the large envelope, technical bid of such bidders shall not be opened.** Any tender not accompanied by acceptable Earnest Money Deposit will be summarily rejected as non-responsive.
 - iv. The Technical bid shall comprise of duly filled Annexure-3 & 4 along with all enclosures specified at Annexure-3. **In case all the documents in support of eligibility criteria mentioned in Annexure-3 & 4 are not found enclosed in the technical bid envelope, the bid shall be summarily rejected as non-responsive and financial bid of such bidders shall not be opened.** All Technical documents like literature, catalogues, etc., if any, shall be placed in the same sealed cover of technical bid. The technical bid shall not indicate particulars of the Financial bid otherwise the bid shall be liable to be rejected.
 - v. Each page of bid should be numbered and signed by the authorized signatory with the seal of the Bidder. Further, any cutting, addition or overwriting on any page of the bid, shall be clearly marked and signed by the authorized signatory.

- vi. A Power of Attorney duly notarised by the Notary Public, indicating that the person(s) signing the bid has the authority to sign the bid and that the bid is binding upon the Bidder during the full period of its validity, shall be submitted.
5. No change in the amount of bid shall be permitted after submission of the bids. All the documents shall be duly signed and stamped by authorized person of bidder/supplier.
6. Sealed Bids should be either dropped in the Tender Box placed at Commission's Reception or sent by registered post at the address of Commission so as to reach on or before by 1500 Hrs on 04.11.2019. Late tenders will not be considered. No responsibility will be taken for postal delay or non-delivery/non-receipt of Bid documents. Bids sent by FAX or E-mail will not be considered.
7. Bidders are advised to visit the O/o DERC to assess the required work and familiarize themselves with the local conditions and the work involved. The Bidders may, accordingly, quote their rates for the required work.
8. **Specifications.** IP based CCTV Cameras with supporting peripherals shall strictly be as per the specifications (Annexure-4).
9. **Time and date for opening of Bids.**
- 9(a) **Technical Bid (along with technical specification):** The technical bids will be opened on 04.11.2019 **at 1600 Hrs.** The technical bids shall be qualifying in nature and shall have no bearing on financial evaluation.
10. **Financial Bid:** The financial bids of only those bidders shall be opened who qualify in technical bids and meet the technical specifications. After completion of the technical evaluation, the Commission shall inform those bidders whose proposals do not meet the qualifying criteria or are considered non-responsive to the Technical requirement, and the financial proposal etc. of such non-responsive bids shall be returned un-opened on completion of the technical evaluation. The list of bidders who are shortlisted after technical evaluation shall be posted on the website and displayed on the notice board of the Commission's Office. Financial bid opening date will be intimated by DERC to the technically qualified bidders separately after technical evaluation.
11. If due to any exigency, the due date for opening of the Bids is declared a closed holiday, the Bids will be opened on the next working day at the same time or on any other day/time, as intimated by the Commission. The Bidders may depute their representatives, duly authorized in writing, to attend the opening of Bids. This event will not be postponed due to non-presence of representative of the bidder.
12. **Rejection of Bids.** Canvassing by the Bidder in any form, unsolicited letter and post-tender correction, unsigned bids shall be summarily rejected and may lead to forfeiture of EMD. Conditional/part tenders will also be rejected.

13. **Validity of Bids.** The prices quoted in the Bids shall remain valid for **60 days** from the last date of submission of the Bids.
14. **Bid Tender amount, Taxes and Duties.** The Bidder shall quote separately, the base price of Goods & services, and applicable taxes and duties. The evaluation of the Financial Bids will be based on the total price, i.e., base price + Taxes. The base price of Goods & services shall be firm and final. No escalation whatsoever shall be payable.
15. **Defect Liability Period.**
- Guarantee period for the CCTV system including consumables shall be three years from the date of Completion of Work and testing and commissioning of the total CCTV systems.
16. The successful bidder shall sign an agreement within 10 days of issuance of Work Order by the Commission and also simultaneously furnish a "Performance Guarantee" of 10% (Ten percent) of the Contract value in form of Bank Guarantee/Fixed Deposit Receipt in favour of "Secretary, Delhi Electricity Regulatory Commission", to be valid upto a period of 3 months beyond Defect Liability Period. In case, the successful bidder fails to furnish the desired "Performance Guarantee" within stipulated time period, the Commission reserves the right to terminate the Contract.
17. **Terms of Work Order.**
- (a) The successful bidder shall have to complete the works within 30 days from the date of Work Order unless the period is extended by mutual agreement.
- (b) The Material used in the works must be in brand new condition. Old/sub-standard/re-used/refurbished/ open seal Material will be returned and vendor will have to replace such material at his own expenses.
18. **Liquidated Damages.** The work of IP based CCTV Cameras mentioned in BOQ shall be completed within the prescribed time. The successful bidder shall be liable to pay liquidated damages as compensation for an amount equal to 0.25 % of the contract price of the whole work for every day's delay but not exceeding 10% on the total value of the contract value.
19. **Payment Terms**
- (a) 75% payment will be made after supply of equipment/ material at site.
- (b) Balance 25% payment will be made after successful installation, Testing & Commissioning of equipment/ material at site based on verification and certification by the appropriate authority in the Commission.
- (c) The invoice shall be raised in favor of "Secretary, Delhi Electricity Regulatory Commission".
- (d) Payment will be released through RTGS/NEFT/IMPS in the name of successful bidder.
- (e) Taxes will be paid based on the taxable invoice.

20. **Termination of Contract.** The Commission shall have the right to terminate this Contract in part or in full in any of the following cases, if: -
- (a) The work is delayed for more than 15 days beyond the scheduled date indicated in the Work Order, for reasons attributable to the successful bidder.
 - (b) The successful bidder is declared bankrupt or becomes insolvent.
 - (c) For any other reasons which is in the opinion of Commission warrants cancellation of contract award.
21. In case the successful bidder fails to fulfill its obligations upto Defect Liability Period, the Commission would be entitled to forfeit the Performance Bank Guarantee furnished.
22. **Indemnity Bond.** The successful bidder shall submit an indemnity bond, indemnifying DERC from the following, on a stamp paper of Rs. 100 duly signed by the authorized signatory within 10 days from the date of work order, and before commencement of work at site:
- (a) Any third party claims, civil or criminal complaints /liabilities, site mishaps, fire hazards & other accidents including death of any person/s or dispute and /or damages occurring, or arising out of any mishaps at site due to his/his employee/representative fault or negligence.
 - (b) All claims, demands, actions, proceedings, losses, damages, liabilities, cost, charges, expenses or obligations that are occasioned to or may occasion to the successful bidder as a result of non-payment of any statutory dues levied/Taxes e.g. leviable on the successful bidder or the successful bidder committing breach of any of the rules, regulations, orders, directives, instructions that may be issued by any authority under the Central Government/State Govt. or any statute or law for the time being in force.
 - (c) Any damages, loss, death or expenses due to or resulting from any negligence or breach of duty on his/his employee/representative part.
23. Electricity for erection, commissioning and testing of equipment shall be provided by Commission free of cost. However, Commission does not guarantee the continuity of supply and no compensation whatsoever shall be allowed on this account.
24. The work shall be carried out by the successful bidder in a manner complying in all respect with the requirement of relevant bye-laws/orders of the Local/Municipal bodies and pay all fees and charges which may be leviable at his own cost. Wherever local bye-laws require engagement of licensed Plumbers/Electrical inspectors or any other specialized persons, the successful bidder shall engage them at his own cost. The completion certificates, wherever applicable, to meet the statutory obligations, shall be arranged by the successful bidder.

25. The successful bidder shall provide, at his own cost, all materials, plants, tools, equipment, appliances, implements, Ladder, cordages, tackle, scaffolding and temporary works, required for proper execution of the work, whether original, altered or substituted and whether included in the specifications or other documents forming part of the contract or not, or which may be necessary for the purpose of satisfying or complying with the requirements of the Commission as to any matter under these conditions he is entitled to be satisfied, or which he is entitled to require together with carriage thereof to and from the work. The successful bidder shall deploy without charge the requisite personnel with means and materials, necessary for the purpose of setting out the works, counting, weighting, and assisting in measurements or examination of the work from time to time.
26. The quantities shown against the various items of works are approximate. Quantities of individual items may vary by $\pm 25\%$. Any increase or decrease in the quantities shall not form the basis for alteration of the rates quoted and accepted, subject to the provisions. Payment shall be made on the basis of actual quantities executed.
27. The sealed proposal should be submitted to the following address: -

The Secretary,

Delhi Electricity Regulatory Commission,
Viniyamak Bhawan, C-Block, Shivalik,
Malviya Nagar, New Delhi-110017.
Ph. No.: 011-26673608, 41080417

28. DERC reserves the right to accept or reject any/all proposals without assigning any reason or incurring any liability whatsoever.

(Mahesh Bhatt)
Executive Assistant

Annexure-3**TECHNICAL BID****(In the letter head of Bidder)**

1.	Full name of the Agency	
2.	Complete Address	
3.	Name of Proprietor / Partners / Directors	
4.	Contact Number	Office : Residence
5.	Commercial Registration Number (enclose proof)	
6.	PAN Number, (attach copy of PAN Card)	
7.	GST Number (enclose a copy)	
8.	Turn Over of last 3 financial years i.e., FY 2018-19, FY 2017-18& FY 2016-17 (enclose CA certificates) or 3 year copy of the Balance sheet & Profit and Loss accounts duly signed by the Auditor.	
9.	Bank Account Details	
10.	EPF & ESI registration (enclose proof)	

Declaration:

I/We hereby declare the I/We have read & understood all the terms & conditions mentioned in the Tender inviting letter and I/We undertake myself/ourselves to abide by them. I/We further, declare that all the information given above is true.

I further declare that my/our Firm has never been blacklisted / debarred by any department of Central / State Government/ PSU in last 5years.

Enclosures with technical bid:

- A Power of Attorney duly notarised by the Notary Public, indicating that the person(s) signing the bid has the authority to sign the bid and that the bid is binding upon the Bidder during the full period of its validity.*
- CA certificate in support of last three years turnover.*
- Copy of valid Goods & Service Tax of Delhi state.*
- EPF registration letter/self declaration regarding its non-applicability.*
- ESI registration letter/self declaration regarding its non-applicability.*
- Copy of PAN card.*
- Document showing OEM status of the Bidder, or their authorized dealer.*
- Completion certificates of works.*
- Annexure-4*

(Signature of Bidder)

Place :

Name

Date:

Designation

Signature of Authorized signatory

TECHNICAL SPECIFICATIONS**Indoor 2MP IP CCTV Camera**

S.no.	Features		Compliance Yes/No
1.	Image Sensor	1/2.8" 2 MP progressive scan imager	
2.	Resolution	2MP - 1920x1080	
3.	Day/ Night Operation	True day/night (IR-cut filter) Smart IR with upto 20m IR distance	
4.	Minimum Illumination	0.01 lux, F1.4 (color) 0 lux (B/W with IR LEDs on)	
5.	IR Illumination	Built in 20m IR distance	
6.	Lens	2.8 mm fixed lens, F2.0	
7.	Field of View	Horizontal field of view: 106°	
8.	Electronic Shutter	1/3–1/100 000 s or better	
9.	Corridor Mode	Yes	
10.	Compression	H.265+/H.265/H.264H/MJPEG	
11.	Frame Rate and Bit Rate	MAIN STREAM 1080P(1~50/60fps WDR off) SUB STREAM D1 (1~50/60fps WDR off) THIRD STREAM 1080P(1-25/30fps)	
12.	PRIVACY MASKING	Up to 4 areas	
13.	Video Streams	triple stream support	
14.	Electronic Exposure & Control	Automatic/ Manual	
15.	Wide Dynamic Range	WDR (120 dB) or Better	
16.	Privacy Masks	Required	
17.	Event Triggers	A. The camera shall be able to send and received trigger directly from any other camera without interface of VMS. B. Intelligent Video, Edge Storage Events, Software Alarms, Camera Tampering	
18.	Event Actions	File upload: FTP, HTTP, network share and email Notification: email, HTTP and TCP PTZ function, Edge Storage/ NAS Storage, Pre & Post Alarm Recording, Actions configurable by web interface	

19.	Edge Storage	microSD, 128 GB max.	
20.	BIT RATE (H.264)	32 Kbps – 10 Mbps	
21.	Protocols	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1X	
22.	Event Alarms	Motion Detection/Video Tampering/Face Detection/SD Card Error/SD Card Capacity Warning/Audio Detection/ Object Abandoned/Object Missing/Tripwire/Intrusion	
23.	Security	Password protection, IP address filtering, HTTPSa encryption, IEEE 802.1Xa network access control, Digest authentication, User access log, Centralized certificate management	
24.	Firmware Upgrade	The firmware upgrade shall be done through web interface, The firmware shall be available free of cost	
25.	Audio Interface	Built-in mic, COMPRESSION : G.711, AAC	
26.	Interface	RJ 45, 100 Base TX	
27.	Enclosure	IP66, IK10, Die-cast aluminum housing with powder coat	
28.	Power requirements	PoE (802.3af), 12 VDC	
29.	Operating Temperature	-30°C to 60°C (-22°F to 140°F)	
30.	Operating Humidity	0-95%, non-condensing	
31.	Certification	UL, CE, FCC	
32.	Mount	Wall/ Ceiling/ Surface	
33.	Onvif S & G	Required	

Outdoor 2MP IP CCTV Camera

S.no.	Features		Compliance Yes/No
1.	Image Sensor	1/2.8" 2 MP progressive scan imager	
2.	Resolution	2MP-1920(H) x1080(V)	
3.	Day/ Night Operation	True day/night (IR-cut filter) Smart IR with upto 60m IR distance	
4.	Minimum Illumination	0.05 lux, F2.0 (color) 0 lux (with IR LEDs on)	
5.	IR Illumination	Built in 60m IR distance	
6.	Lens	3-12mm Motorized	
7.	Field of View	Horizontal field of view: 84°	
8.	Electronic Shutter	Auto, Manual, 1/3–1/100 000 s or better	
9.	Corridor Mode	Yes	
10.	Compression	H.265/H.264H//MJPEG	
11.	Frame Rate and Bit Rate	1080P(1920×1080)/1.3M(1280×960)/ 720P(1280×720)/D1(704×480/576)/ VGA(640×480)/ CIF(352×240/288)	
12.	PRIVACY MASKING	Up to 4 areas	
13.	NOISE REDUCTION	3DNR	
14.	Video Streams	Dual stream support	
15.	Electronic Exposure & Control	Automatic/ Manual	
16.	Wide Dynamic Range	WDR (120 dB) or Better	
17.	Privacy Masks	Required	
18.	Event Triggers	A. The camera shall be able to send and received trigger directly from any other camera without interface of VMS. B. Intelligent Video, Edge Storage Events, Software Alarms, Camera Tampering	
19.	Event Actions	File upload: FTP, HTTP, network share and email Notification: email, HTTP and TCP PTZ funtion, Edge Storage/ NAS Storage, Pre & Post Alarm Recording, Actions configurable by web interface	

20.	Edge Storage	microSD, 128 GB max.	
21.	BIT RATE (H.264)	32 Kbps – 10 Mbps	
22.	Protocols	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1X	
23.	Security	Password protection, IP address filtering, HTTPSa encryption, IEEE 802.1Xa network access control, Digest authentication, User access log, Centralized certificate management	
24.	Firmware Upgrade	The firmware upgrade shall be done through web interface, The firmware shall be available free of cost	
25.	Interface	RJ 45, 100 Base TX	
26.	Enclosure	IP66	
27.	Power requirements	PoE (802.3af), 12 VDC	
28.	Operating Temperature	–30°C to 60°C (–22°F to 140°F)	
29.	Operating Humidity	0–95%, non-condensing	
30.	Certification	UL, CE, FCC	
31.	Mount	Wall/ Ceiling/ Surface	
32.	Onvif S & G	Required	

32 Channel Network Video Recorder (NVR)

S. No.	Features	Compliance Yes/No
1.	The system shall be Windows/ Linux platform. The OS shall be embedded in device without extra installation. The system shall at least support 320mbps.	
2.	The system shall have ability to display videos and manage the system locally with monitor connected via either HDMI or VGA.	
3.	The system shall support ONVIF cameras.	
4.	The local display shall provide optional layouts to display the videos –1/4/8/16 (maximum 4-ch @8 MP, 8-ch @ 4 MP, or 16-ch @1080p simultaneous playback)	
5.	The system shall support displaying images from several cameras, one after the other, in a single view position. The system shall allow user to define time interval of carousel.	
6.	The remote playback system shall support intelligent search tool (post-video-analytics) – search the camera events (general motion, foreign object, missing object, focus lost, camera occlusion) in regions of interest from recorded video. The tool shall present the searching result by listing all events or showing events frame by frame.	
7.	The system shall be able to TRIGGER EVENTS for Recording; PTZ; Tour; Alarm; Video Push; Email; FTP; Snapshot; Buzzer	

8.	Maximum Numbers of Licenses	upto 32 cameras in the same unit	
9.	Video Output	HDMI, VGA	
10.	Output Resolution	3840 × 2160; 1920 × 1080; 1280 × 1024; 1280 × 720; 1024 × 768	
11.	Interface	2 HDMI (1 HDMI up to 3840 × 2160); 1 VGA	
12.	Recording Compression	H.264/MJPEG/MPEG4	
13.	RECORDING RESOLUTION	12 MP (4000 × 3000); 8 MP (3840 × 2160); 6 MP (3072 × 2048); 5 MP (2560 × 1920); 4MP (2560 × 1440); 3 MP (2048 × 1520); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576 / 704 × 480); CIF (352 × 288 / 352 × 240)	
14.	Throughput	Input 320 Mbps; Output 320 Mbps	
15.	Number of Drives	4 SATA ports, up to 32 TB	
16.	Max Storage Per Drive	8TB	
17.	Inbuilt POE port	16 ports (IEEE802.3af/at)	
18.	MAXIMUM NUMBER OF USERS	128 users	
19.	I/O Interface	3 (2 rear USB3.0; 1 front USB2.0)	
20.	LAN	1 RJ-45 port (10/100/1000Mbps)	
21.	SUPPORTED PROTOCOLS	HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search, P2P	
22.	Certification	UL, CE, FCC	

24 Port POE Switch with 4 SFP Combo

Sr.No.	Parameters	Minimum specification	Compliance Yes/No
1.	Port Density	24 x 10/100/1000base- T PoE ports	
		4 x100/1000 Mbps GbE/SFP ports	
2.	Power Budget	370W	
3.	PoE ports	802.3af/at ports compliance for(PoEports)	
4.	switching fabric	56 Gb/s or more and forwarding throughput of 41.7 Mpps	
5.	MAC addresses & VLANs	8,000 entries and Max.256 static VLAN groups	
6.	Multicast	IGMP v1/v2 Snooping IGMP v3 awareness, MLD snooping v1/v2 (256 groups)	
7.	L2 Features	The access switches should support full Layer 2 features like STP, RSTP, MSTP/PVST, LACP/IEEE802.3ad, ACL, QoS and IGMPv1/v2	
8.	IPv4 & IPv6 Support	The Access Switches should support <ul style="list-style-type: none"> • Static routing (IPv4 and IPv6) •Static routing • 124 IPv4 static route entries • 50 IPv6 static route entries ARP Spoofing Prevention • Max. 127 entries 	
		The switch should be IPV6 compliant.	
9.	Network protocols	DHCP ,UDP for MIB,ARP,DHCP,VLAN	
10.	Resiliency & high availability	Should support Broadcast, multicast, and unicast	
		The Access Switches should support Energy Efficient Ethernet IEEE 802.3az	
		Dual-image and dual configuration file storage provide backup	

11.	Management	Device Management Features -Web-based GUI -Should support DHCP Server - Compact CLI • Telnet Server - Should support Telnet Server, SSH v2, TFTP Client - RFC 1157 SNMPMIB - RFC 2573 SNMPMIB Application Should support LLDP or equivalent for IPv4 and IPV6 traffic	
12.	Multicast	IGMPv1/v2/v3 snooping for optimized multicast traffic • Multicast Listener Discovery (MLD) v1/v2 snooping	
13.	QOS	Eight queues per port	
		Traffic segmentation	
		Bandwidth control	
		Configurable scheduling algorithms, including Strict Priority Queuing (SPQ), Weighted Round Robin (WRR)	
14.	Safety Certifications	Safety: CB, UL, BSMI, CCC	
		EMI: CE Class A, VCCI Class A, FCC Class A, BSMI, CCC	

8 port Layer-2 PoE Switch 10/100/1000 with 2 combo

Sr. No.	Parameters	Minimum specification	Compliance Yes/No
1.	Port Density	8 x 10/100/1000base TX PoE ports	
		2 x100/1000 Mbps SFP ports	
2.	Power Budget	130Watt	
3.	PoE ports	8 x 802.3af/at ports	
4.	switching fabric	20 Gb/s or more and forwarding throughput of 14.88 Mpps	
5.	MAC addresses & VLANs	8,000 entries 256 static VLAN groups	
6.	Multicast	IGMPv1/v2/v3 snooping for optimized multicast traffic	
7.	L2 Features	The access switches should support full Layer 2 features like STP, RSTP, MSTP/PVST, LACP/IEEE802.3ad, ACL, QoS and IGMPv1/v2 from day 1.	

8.	IPv4 & IPv6 Support	The Access Switches should support <ul style="list-style-type: none"> • Static routing (IPv4 and IPv6) • Static routing • 124 IPv4 static route entries • 50 IPv6 static route entries • ARP Spoofing Prevention • Max. 127 entries 	
		The switch should be IPV6 compliant.	
9.	Network protocols	DHCP ,UDP for MIB,ARP,DHCP,VLAN	
10.	Resiliency & high availability	Should support Broadcast, multicast, and unicast	
		The Access Switches should support Energy Efficient Ethernet IEEE 802.3az	
		Dual-image and dual configuration file storage provide backup	
11.	Management	Device Management Features <ul style="list-style-type: none"> -Web-based GUI -Should support DHCP Server - Compact CLI • Telnet Server - Should support Telnet Server, SSH v2, TFTP Client - RFC 1157 SNMPMIB - RFC 2573 SNMPMIB Application Should support LLDP or equivalent for IPv4 and IPV6 traffic	
12.	Multicast	IGMPv1/v2/v3 snooping for optimized multicast traffic • Multicast Listener Discovery (MLD) v1/v2 snooping	
13.	QOS	Eight queues per port	
		Traffic segmentation	
		Bandwidth control	
		Configurable scheduling algorithms, including Strict Priority Queuing (SPQ), Weighted Round Robin (WRR)	
14.	Safety Certifications	Safety: CB, UL, BSMI, CCC	
		EMI: CE Class A, VCCI Class A, FCC Class A, BSMI, CCC	

(Signature of Bidder)

Name

Designation

Place:

Date:

Signature of Authorized signatory

FINANCIAL BID**(In the letter head of Bidder)****Tender for Supply, Installation, Testing and Commissioning (SITC) of IP based CCTV Cameras with supporting peripherals in the premises of DERC.**

To,

The Secretary,
DERC, New Delhi.

Sir,

1. I/We have read and understood the contents of the Tender and agree to abide by the terms and conditions of this Tender.
2. I/We also confirm that in the event of my/our tender being accepted, I/we hereby undertake to furnish applicable Performance Guarantee for obtaining the Work Order.
3. I/We further undertake that none of the Proprietor/Partners/Directors of the firm was or has been blacklisted / debarred by any department of Central / State Government/ PSU in last 5years, nor any criminal case registered against them / the firm. I/We further undertake to report to Secretary DERC, New Delhi immediately if any such action is taken in future against the Firm / Proprietor / Partners / Directors.
4. **Financial Bid** - For Supply, Installation and Commissioning of IP based CCTV Cameras with supporting peripherals in the premises of DERC, our lowest rates are as follows:-

Sr. No.	Item Description	Qty.	Rate (Rs.)	Amount (Rs.)
01.	Indoor Dome Camera - 2MP IP CCTV (AS per Specification mentioned in Annexure '4')	07		
02.	Outdoor Bullet Camera - 2MP IP CCTV (AS per Specification mentioned in Annexure '4')	11		
03.	32 Channel NVR (AS per Specification mentioned in Annexure '4') Approved Make: should be same as proposed cameras	01		
04.	6TB HDD for 24 x 7 Operations.	04		
05.	24 Port L2 + feature Gigabit 802.3af/at compliant PoE Switch with 4 SFP Slot (AS per Specification mentioned in Annexure '4')	01		
06.	8 Port Gigabit 802.3 aUaf-Complaint PoE switch (AS per Specification mentioned in Annexure '4')	02		
07.	4 Port Gigabit 802.3 aUaf-Complaint PoE switch	02		
08.	Cat 6 UTP Cables (in meters)	2000		
09.	Patch cord cat 6 UTP Grey 1m -moulded	10		
10.	Patch cord cat 6 UTP Grey 2m -moulded	10		
11.	25 mm PVC conduit (in meters)	2000		
12.	Installation, testing, commissioning & training with 3 years warranty	—	Lumpsum	
Total (INR)				

Taxes & duties

Tax Head	Rate (%)	Amount(INR)
Grand Total (Base price + Taxes & duties) (INR)		

(Signature of Bidder)

Name

Designation

Place:

Date:

Signature of Authorized signatory

Annexure-6**BANK GUARANTEE FOR PERFORMANCE SECURITY**

(To be stamped in accordance with Stamp Act)

Ref Bank Guarantee No.....

Date.....

To

Delhi Electricity Regulatory Commission
 Viniyamak Bhavan,
 C Block, Shivalik,
 Malviya Nagar
 New Delhi – 110017

Dear Sir,

In consideration of the DERC (hereinafter referred to as the 'Commission', which expression shall unless repugnant to the context or meaning thereof include its successors, administrators and assigns) having awarded to M/s _____ (Firm Name) with its Registered/Head Office at _____ (hereinafter referred to as the Firm, which expression shall unless repugnant to the context or meaning thereof, include its successors, administrators, executors and assigns), a Contract, by issue of Commission's Letter of Award No. _____ dated _____ and the same having been unequivocally accepted by the Firm, resulting into a Contract valued at Rs. _____ for _____ (Scope of Contract) _____ and the firm having agreed to provide a Contract Performance Guarantee for the faithful performance of the entire Contract equivalent to 10% (ten percent) of the said value of the Contract to the Commission.

We _____ (Name & Address of the Bank), having its Head Office at _____ (hereinafter referred to as the 'Bank', which expression shall, unless repugnant to the context or meaning thereof, include its successors, administrators, executors and assigns) do hereby guarantee and undertake to pay the Commission, on demand any and all monies payable by the Firm to the extent of _____ as aforesaid at any time upto _____ @ _____ (days/month/year) _____ without any demur, reservation, contest, recourse or protest and/or without any reference to the Firm. Any such demand made by the Commission on the Bank shall be conclusive and binding notwithstanding any difference between the Commission and the Firm or any dispute pending before any Court, Tribunal, Arbitrator or any other authority. The Bank undertakes not to revoke this guarantee during its currency without previous consent of the Commission and further agrees that the guarantee herein contained shall continue to be enforceable till the Commission discharges this guarantee.

The Commission shall have the fullest liberty without affecting in any way the liability of the Bank under this guarantee from time to time to extend the time for performance of the Contract by the Firm. The Commission shall have the fullest liberty, without affecting this guarantee, to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the Consultant, and to exercise the same at any time in any manner, and either to enforce or to forbear to enforce any covenants, contained or implied, in the Contract between the Commission and the Consultant or any other course or remedy or security available to the Commission. The Bank shall not be relived of its obligations under these presents by any exercise by the Commission of its liberty with reference to the matters aforesaid or any of them or by reason of any other act or forbearance or other acts of omission or commission on the part of the Commission or any other indulgence shown by the Commission or by any other matters or thing whatsoever which under law would, but for this provision, have the effect of relieving the Bank.

The Bank also agrees that the Commission at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Consultant and notwithstanding any security or other guarantee that the Commission may have in relation to the Firm's liabilities.

Notwithstanding anything contained hereinabove our liability under this guarantee is restricted to _____ and it shall remain in force upto and including _____* _____ and shall be extended from time to time for such period (not exceeding one year), as may be desired by M/s _____ (Firm Name) on whose behalf this guarantee has been given. In witness whereof the Bank, through its authorized Officer, has set its hand and stamp on this _____ day of _____ 201____ at _____

Witness :

(Signature) (Signature)

(Name) (Name)

(Official address) (Designation with Bank stamp)

(Attorney as per Power of Attorney

No. _____

Dated _____)

NOTE: 1. * This sum shall be ten percent (10%) of the Contract Price.

@ The date will be 3 (three) months beyond the defect liability period.

2. The Stamp Paper of appropriate value shall be purchased in the name of guarantee issuing Bank or the Party on whose behalf the BG is being issued. The Bank Guarantee shall be issued on a stamp paper of value as applicable in the State of India from where BG is issued or NCT of Delhi, whichever is higher.