

## NOTICE INVITING TENDER

### Empanelment of Vendors for Supply and Installation of NVR Based CCTV Systems In the Branches of Indian Bank under Zonal Office Midnapore

Indian Bank, Zonal Office Midnapore invites sealed tenders from reputed Companies /Firms for Empanelment of vendors for Supply and Installation of CCTV systems in the branches of Indian Bank under Zonal Office Midnapore, West Bengal.

The offers are invited in two-bid system (i.e. Technical Bid & Financial bid). Interested parties may obtain the prescribed format of technical bid and financial bid from Indian Bank's Zonal Office Station Road (Near Old Water Tank), Midnapore (W.B.), Pin 721101 between 11.00 AM to 5.00 PM from 08.10.2020, Monday to Saturday (except second/fourth Saturday and holiday) up to 01:00 PM on 04.11.2020 or may download the same from Bank's website www.indianbank.in.

The tender forms are available at cost of Rs 1,000/- (non refundable) by Demand Draft favoring Indian Bank payable at Midnapore at above mentioned address or the same may be downloaded from Bank's website (the tender form downloaded from website must be attached with Rs 1,000/- demand draft favoring Indian Bank payable at Midnapore).

The Earnest Money Deposit (EMD) of Rs 50,000/- (Rs Fifty Thousand only), refundable (without interest) in form of demand draft favoring Indian Bank payable at Midnapore and valid for a period of 90 days (from the last date of tender submission), should be submitted along with the Technical Bid by the vendors. Bids not accompanied by EMD or without proper validity will be summarily rejected.

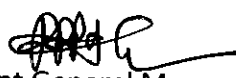
The duly filled in offer completed in all respect in separate sealed covers marked "Technical Bid" & "Financial Bid" and super scribing "Offers for Supply and Installation of CCTV System" on top and name, address & contact number of the bidder at bottom left corner should be addressed to:

**Address: The Assistant General Manager  
Indian Bank, Zonal Office  
Station Road, Near Old Water Tank  
Midnapore (W.B.) 721101**

The bids/proposal shall remain valid for 90 days from the last date of submission of the bids. Incomplete response without the required documents is liable to be cancelled.

The last date of submission of completed application form is 04.11.2020 up to 01.00 PM. The technical bid of offer will be opened on 04.11.2020 at 04.30 PM and date of opening of financial bid will be intimated to short listed vendors subsequently.

Indian Bank reserves the right to accept or reject in part or full any or all the offers without assigning any reasons therefore.

  
Assistant General Manager

**INDIAN BANK**  
**Zonal Office Midnapore**

**GENERAL INSTRUCTIONS FOR BIDDERS**

1. Quotations are invited under two bid systems i.e. Technical Bid and Financial Bid, to be submitted as per the format enclosed in Annexure IV and V of this document. These will be put in separate sealed covers super scribed respectively as "**Technical Bid**" and "**Financial Bid**". Both sealed envelopes should be put in another sealed cover super scribed as "**Quotation for Supply, Installation and Maintenance of CCTV systems**".
2. The Earnest Money Deposit (EMD) amounting to Rs. 50,000 (Rs. Fifty Thousand Only) refundable (without interest), should be necessarily submitted along with the Technical Bid of the Vendor in the form of Demand Draft, from any of the Scheduled Bank drawn in favor of Indian Bank payable at **Midnapore** and valid for a period of 90 days. Bids not accompanied by EMD or without proper validity will be summarily rejected.
3. The Vendor is required to enclose documents attached to the tenders in original in two separate envelopes duly signed, stamped and sealed.
4. Bids submitted after the due date and time shall not be accepted under any circumstances whatsoever.
5. Conditional Bid shall not be considered and shall be rejected at the very first instance.
6. The EMD will be forfeited if the vendor rescinds after accepting the offer.
7. The vendor should include the list of Public Sector Banks/Private Banks whom they have provided services on CCTV system in last **5 years (attach work orderds)**, along with name, phone/fax number of the contact person.
8. All entries in the bid form should be legible and filled clearly. If the space for furnishing information is insufficient, a separate sheet duly signed by the authorized signatory may be attached. No overwriting/striking is permitted. Overwriting/striking if any, in the Technical Bid must be initialed by the person authorized to sign the bid.
9. The envelope containing Technical Bid shall be opened on the scheduled date and time as given, in presence of Directors/Proprietors/Authorized representatives of vendors, who wish to be present.
10. Technical Bids will be evaluated by the Committee constituted by the Bank. The Committee may call for a technical presentation by the vendors, which will include verifying the financial turn-over, registration certificates, legal, financial, statutory, taxation and other associated compliance of contract conditions. The Committee may evaluate/verify the performance of the vendor at any of their existing contracts which may include obtaining references /or visiting the clients and the quality of services rendered by the vendor etc.
11. **Bank reserves the right to amend or withdraw any of the terms and conditions contained in this Bid Document or reject any or all Bids without giving notice or assigning any reason thereof. The decision of the Bank, in this regard shall be final and binding on all concerned.**
12. **VALIDITY PERIOD:** The empanelled Vendors/Firms/Suppliers will remain in the empanelled list of the Indian Bank for Midnapore Zone for supply and installation of CCTV system for **Three years** from the date of empanelment or till the completion of next empanelment period at the Bank's own discretion (whichever is earlier).
  - (a) The Annual rate contract will be valid for two year. Based on market rate of products the rate will be reviewed by the bank and if both party agree on that rate then the contract can be extended for further period of another year or more.
  - (b) Empanelment will be valid only, if all eligibility criteria mentioned in the advertisement are fulfilled during the entire empanelment period.

(c) If the service provided by vendor is found to be unsatisfactory or if at any point of time during the empanelment it is found that the information provided by vendor is false or if vendor do not participate in any subsequent RFP or tendering process three times consecutively, the Bank reserves the right to remove the vendor from the empanelment list without giving any notice. Bank's decision in this regard will be final.

## 12. PROCESS

Offers will be evaluated in the following stages:

**Stage I** Offers will be evaluated against the stipulated minimum Eligibility Criteria. *Offers not complying with the eligibility will be rejected summarily.*

**Stage II** Short listing of Vendors/Firms/Suppliers will be based on the evaluation of the technical requirement complied with **live demonstration of CCTV system offered** and satisfactory feedback from the reference sites and other clients of the vendors.

**Stage III** The price bids of only short listed vendors (who qualify in both technical bid and demonstration of system) will be opened in the presence of vendors / or authorized representative. Based on bid amount, the bank will strive to empanel minimum one vendor for a period of three years. For number of vendors to be empanelled, Bank's decision will be final decision. **Work order will be served later for a period of one year to the L1 bidder(s).**

## 14. AVAILABILITY OF SPARES

Vendor should ensure that the Spares for the product offered are available for at least 6 years from the day of installation of equipment. No obsolete equipment should be supplied to the bank.

## 15. PATENTS RIGHTS

The supplier shall indemnify the purchaser against all third party claims of infringement of patent, trademark or industrial design rights arising from use of the Goods, or any part thereof in India. The supplier shall, at their own expense, defend and indemnify the Bank against all third party claims or infringement of intellectual Property Right, including Patent, trademark, copyright, trade secret or industrial design rights arising from use of the products or any part thereof in India or abroad. The supplier shall expeditiously extinguish any such claims and shall have full rights to defend it there from. If the Bank is required to pay compensation to a third party resulting from such infringement, the supplier shall be fully responsible for, including all expenses and court and legal fees. The Bank will give notice to the Supplier of any such claim without delay, provide reasonable assistance to the Supplier in disposing of the claim, and shall at no time admit to any liability for or express any intent to settle the claim. The Supplier shall grant to the bank a fully paid-up, irrevocable, non-exclusive license throughout the territory of India or abroad to access, replicate and use software (and other software items) if any, provided by the supplier, including-all inventions, designs and marks embodied therein in perpetuity.

## 16. TERMINATION FOR INSOLVENCY

The Bank may at any time terminate the Contract by giving written notice to the Bidder, if the Bidder becomes bankrupt or otherwise insolvent.

## 17. LIABILITY

Vendor's aggregate liability under the contract shall apply to third party claims for bodily injury/electric shock (including death) and damage to real property (due to malfunction of equipment) and tangible personal property caused by vendor's gross negligence/lapse or due to below standard equipments

used by Vendor. The Vendor shall be liable for any indirect, consequential, or special damages due to malfunction of the security equipments under the agreement / purchase order.

18. **WARRANTY**

The offer must include on-site warranty from the date of installation and commissioning of the equipments however there should not be any additional cost for the warranty period. "No AMC" charge will be admissible in warranty period however half yearly service visit is mandatory during warranty period.

19. **FORCE MAJEURE**

Notwithstanding the above provisions, the Successful bidder shall not be liable for penalty or termination for default, if and to the extent that it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure. For purposes of this clause, "Force Majeure" means an event beyond the control of the Bidder and not involving the Bidder's fault or negligence and not foreseeable. Such events may include, but are not restricted to, wars or revolutions and epidemics. If a Force Majeure situation arises, the Bidder shall promptly notify the Bank in writing of such condition and the cause thereof. Unless otherwise directed by the Bank in writing, the Bidder shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means of performance not prevented by the "Force Majeure" event.

20. **NUISANCE:**

The Vendor shall not at any time do cause or permit anyone to or cause any nuisance on the site or do anything which shall cause unnecessary disturbance of inconvenience to the Bank, Owners, Tenants or occupier of other properties near the site and to the customers/public generally.

21. **GOVERNING LAW AND DISPUTES**

The provisions of this tender shall always be subject to Government Notifications, any rules/guidelines that may be in force from time to time. All disputes or differences whatsoever arising between the parties out of or in relation to the construction, meaning and operation or effect of these Tender Documents or breach thereof shall be settled amicably. If however the parties are not able to solve them amicably, the same shall be settled by arbitration in accordance with the provisions of "Arbitration and Conciliation Act-1996" or any statutory modifications or re-enactments thereof and the rules made there under and for the time being in force, shall apply to the arbitration proceedings. The arbitrator shall be appointed with the mutual consent of both the parties. However there is a provision of appeal if either party is not satisfied with the arbitration award. During the arbitration proceedings the Vendor shall continue to work under the Contract unless otherwise directed in writing by the Bank or unless the matter is such that the work cannot possibly be continued until the decision of the arbitrator is obtained.

22. **PERFORMANCE BANK GUARANTEE:** After entering into an agreement the selected vender(s) should submit a Bank Guarantee which shall be 10% of the work order amount and shall be valid **for a period of 15 Months** from the date of work order, issued by a Public Sector Bank **other than Indian Bank**. Purchaser will have the right to make good the loss from any of the Bank Guarantee given by bidder if given separately, irrespective of the purpose of the guarantee.

23. **NO COMMITMENT TO ACCEPT LOWEST OR ANY TENDER**

*The Bank shall be under no obligation to accept the lowest or any other offer received in response to this notice and shall be entitled to reject any or all offers without assigning any reasons whatsoever. The bank will have right to opt for any new technology optimum for the Banks usage.*

## Annexure-II

### Eligibility Criteria of Vendors for Supply, Installation and Maintenance of CCTV System

Please attach the supporting documents as per serial number (mark the serial number on documents)

1. Vendor providing CCTV systems should have been in business for the last 5 years as on 31.12.2019, work orders of last five years from PSUs is to be attached.
2. Vendor should have a Certificate of Registration with Registrar of Companies or Registrar of Firms or have a letter of proprietorship or valid partnership deed.
3. Vendor should have a registered Office and sale service networks in the state of West Bengal. Furnish certificate issued under shop & establishment registration.
4. Vendor should provide the latest Income Tax Assessment Order and PAN/ TAN Number.
5. Vendor should be registered under the appropriate authority for GST.
6. Vendor should have minimum turnover of Rs. 50 Lakh per year in the last three financial years and provide the latest Audited Balance Sheet preceding 3 financial years.
7. The vendor should have installed minimum 20 Network Video Recorder (NVR) based CCTV Systems in scheduled commercial banks during the last three years ending last day of the month of Dec 2019.
8. The vendor should be original manufacture of products or their authorised representative. In case of authorised representative, a letter of authorization/ dealership to this effect from OEM must be furnished.
9. Vendor providing CCTV system should have adequate technician and well equipped after sale service center at West Midnapore, East Midnapore and Jhargram Districts of West Bengal to attend and repair the complaint and breakdown within 24 hour in nearby branches & 48 hours in remote area branches. Give the exact number of technician working in your concern. If vendor fails to provide service within the above mentioned period, a penalty of 5% of the amount of Performance Security will be imposed.
10. Vendors having ISO 9001:2015 certifications shall be given preference.
11. Vendors supplying Indian Companies/ Manufacturers products will be given preference.
12. The manufactures /dealer distributor should have never been blacklisted by any other public sector bank.
13. Ability to provide CCTV systems as per technical specifications available at Appendix-IV of this advertisement.
14. Availability of warranty for every item.
15. Ability to commence service within 15 days from date of placement of order.
16. The vendor has to give an undertaking that
  - (a) The hard disk they will supply is a surveillance hard disk
  - (b) DNS software & remote health monitoring software has to be provided free of cost by the Vendor.
17. The vendor has to give an undertaking that, they are willing to carry out the Comprehensive AMC job for 3 years of their installed CCTV systems (after the expiry of warranty period of one year) along with cost of AMC.
18. Support for retrieval of image for dispute resolution, Necessary software for retrieval of Data from the NVR Hard disc at no additional cost.
19. **Vendors may be asked to submit Copy of certification of equipment i.e. UL/CE/FCC, copy of document of authorization from manufacturer to Indian dealers and from Indian dealer to supplier undertaking that the cards supplied are original.**

SCOPE OF WORK

**A. For Supply, Installation & Commissioning of CCTV System**

Vendor being the supplier of own design/authorised dealer of OEM, shall supply suitably designed, manufactured and tested CCTV system. The design standards, materials or components used, manufacturing process shall all conform to the respective UL/BIS Code and any other standards mentioned elsewhere in this tender as applicable. The vendor shall be solely responsible for the entire design/specification, safety aspects of the entire CCTV system and related works as detailed in the tender notwithstanding the specifications furnished hereunder.

**Each branch/office shall have 8/16 cameras as per requirement, the exact requirement shall be intimated to the L1 after submitting drawing of camera positions for our approval. The Bank shall arrange for input power supply with necessary input supply.**

**B. AMC for Maintenance of NVR Based CCTV Systems - The vendor has to give an undertaking that they are willing to carry out the Comprehensive AMC job for 3 years of their installed CCTV systems (after the expiry of warranty period of one year) along with cost of AMC.**

1. **Time is The Essence of Contract:** The vendors are requested to note that the CCTV system is to be provided to the Branches/ATMs & if for any reasons the work of supply & commissioning is delayed the Bank's reputation and commitments will be affected and penalty stipulated as per liquidated damages will be levied with-out any requirement on the part of the Bank to establish the actual loss in monetary terms. This aspect shall be the terms of this tender and will be binding on the bidders.
2. The vendor shall maintain the CCTV system and ensure that it works as per the parameters of tender.
3. All the repairs and replacements of spares shall be carried out which are necessitated due to unserviceable condition of components/CCTV system as per tender stipulations upon written communication from the Bank. All the newly replaced components shall be invariably covered for the warranty period of one year and any malfunctioning of the component shall be replaced free of cost.
4. The vendor shall inspect the equipment **at least once in a quarter** as a part of preventive maintenance. This is apart from any breakdown visits that may be required which may emanate in between the two preventive maintenance inspections.
5. The maximum breakdown time shall be 24 hours from the time of receiving the complaint over phone or by email. If the vendor is not in a position to set right the defect or repair and put back the CCTV system to working condition within 24 hours, a standby unit of to suit the tender parameters should be provided immediately.
6. During the Preventive Maintenance the vendor shall inspect/ check the equipment and record the following in service report, which shall be verified and confirmed by the bank's representative.
  - a. CCTV system: Any malfunctioning of the components.
  - b. Any other remarks regarding the Electrical System.
  - c. Any steps to be taken by bank for working of CCTV system.
7. During the preventive Maintenance inspection vendor shall carryout the following apart from the other requirements for the smooth functioning of the CCTV system as per tender parameters and same shall be recorded in a log book which shall be verified and confirmed by bank's representative.

**Camera & Housing:**

- (a) Camera / lens focus and auto iris adjusted properly.
- (b) Camera field of view is adjusted to customer's requirements.
- (c) Camera / housing viewing window are clean, inside and out.
- (d) Camera lens is dust free.
- (e) Interior of camera enclosure is clean and dry.

**Wire & Cable:**

- (a) Check wiring and cable harnesses for wear and tear.
- (b) Check to make sure cable is dressed properly.
- (c) Check connectors and cable entry points for loose wiring.
- (d) Coaxial cable is transmitting an adequate video signal to control room. Signal should be free of distortion, tearing, hum-bars, Electro Magnetic Interference and rolling, etc.
- (e) Make sure all coaxial connectors are insulated from conduit and pull boxes.

**Control Equipment:**

- (a) Monitors are free from picture burn-in and distortion.
- (b) Monitors have proper contrast and brightness.
- (c) NVR's are functioning properly and provided distortion free recording.
- (d) All control equipment is operational. Switchers allow proper sequencing and call up. Multiplexers are properly encoding and decoding.
- (e) Clean monitor screens, control panels, and keyboards with a diluted cleaning solution.
- (f) Check all coaxial connectors on the back panels for loose connections.
- (g) Check all power connections to insure AC plugs are not loose or power cables frayed.

8. During the break down calls, the nature of repair carried out, parts replaced etc shall be recorded in the service report.

9. The rate of annual maintenance charges shall be furnished for a period of 3 years and rates quoted shall be binding on the bidder. The scope and terms of Annual Maintenance Contract like number of monthly visits, items covering under Annual Maintenance Contract, replacement of spares exclusions if any, down time for break down and service calls shall be as per as per the bank terms.

10. **The Annual Maintenance Charges shall be paid once in every half year subject to satisfactory maintenance for the period of previous two quarters and on production of service reports of each quarter by 15<sup>th</sup> of the succeeding month.**

11. The vendor has to maintain the equipment supplied at-least for 5 years and the new components after the expiry of warranty period. At the same time, the vendor is expected to make available the spare parts for the systems for at least 5 years after the expiry of warranty period. Thereafter, vendor will give 6 months notice prior to discontinuation of services.

Authorised Signatory of the Vendor  
(With seal)

**TECHNICAL SPECIFICATIONS FOR SUPPLY,  
INSTALLATION AND MAINTENANCE OF NVR BASED CCTV SYSTEM**

The below mentioned specifications furnished are broad guidelines for the CCTV system on the bidder's own design and manufactures standard system. Wherever the specifications are not furnished or specific, the specification shall be as per their respective UL standards as per the Bank's requirement and they shall not be diluted

**Item No 1: 8 Channel NVR CCTV System**

Sl. No.	Component/System	Specifications	Bidders Compliance
1.	Network recorder (NVR) required specifications	8 Channel NVR With 2 SATA Slots With Each Slot Supporting One 6 TB Hard Disk minimum. The NVR should support Power Over Ethernet (POE). Should support 2 ways audio. Should support third party cameras. Should support recording from minimum 2 MP IP cameras or more.	
2.	Operating system	Embedded Linux / Windows	
3.	User Interface	GUI, Mouse supported	
4.	Video Compression	Embedded with H.264/H.264 plus dual stream Video Compression Algorithm	
5.	Audio compression	G.711	
6.	Video Streams	Dual	
7.	Recording Resolution	1920 X 1080P (Full HD or more) on all channels (25 FPS PAL/ 30 FPS NTSC per Channel)	
8.	Network Recording Resolution	1280 x 720 @ 25fps for each network cameras	
9.	Video Output	HDMI (1920x1080; 1280x1024; 720P:1280x720; XGA:1024x768)/Turbo HD	
10.	Video display (Division)	1,4,6,9	
11.	Audio in / Out	4 Channel RCA/BNC / 1 Channel RCA/BNC	
12.	Recording Mode	Continuous, Manual, Scheduled, Motion detection, Alarm	
13.	Data Storage Capacity	With Minimum 2 SATA slots, Each slot to support minimum 6TB each or more.	
14.	HDD Surveillance Grade Inbuilt with NVR	12TB	
15.	Recording duration	90 days minimum, data recycling on FIFO basis	
16.	Synchronous Playback	8	
17.	Backup for video	HDD, USB Flash Memory Stick, USB Pen drive, USB DVD±RW	
18.	Remote viewing	TCP/ IP enabled or Client Software	
19.	NVR operation	Pentaplex with POE	
20.	Motion detection	Detecting zones, multi-levels of sensitivity,	
21.	System functions	Date and time Stamping	



Sl. No.	Component/System	Specifications	Bidders Compliance
22.	System reliability	Shut down detection, auto recovery after power is re-connected, smart HDD group management, different capacity can be assigned to different channel.	
23.	Alarm	8 alarm input/ 4 output	
24.	Communication Port	RS 232, RS 485, Network Port : RJ-45 10M / 100M (Ethernet)	
25.	UIM card slot	1	
26.	SMA antenna interface	1	
27.	Alarm Exceptions	Send SMS alerts (min. 8 user) and email alerts in case of following alarm events 1) Hard disk full, Error 2) Local LAN Connection Failure 3) Camera video Loss 4) Alarm Input 5) Masking Alarm 6) Video Quality Diagnosis	
28.	Connectors	Min 2 USB Ports - version 2.0 or higher, 01 HDMI port	
29.	Language support	English compulsory	
30.	Power	AC 220 V (±20) 50Hz (±2%) adaptor	
31.	Product warranty	1 Year Minimum	
32.	Certification	UL/ CE/ FCC	
33.	Support password for operation, setup and remote access		
34.	System should be robust and capable of working in 24x7 environments		
35.	System should support IP cameras.		
36.	System should be Scalable / upgradeable.		
37.	Support video signal loss alarm.		
38.	Should support Manual, Schedule (Regular, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop		
39.	Support playback in various modes fast, slow, pause, forward, backward, frame-by frame		
40.	Support IPv6, HTTPS, UPnP™, SNMP, NTP, SADP, SMTP, NFS, iSCSI, PPPoE, etc.		

**Item No 2: Varifocal Bullet/ Dome HD IR Colour Camera**

Sl. No.	Parameters	Specifications	Compliance
1.	Image Sensor	1/3" CCD/CMOS	
2.	Effective pixels	2.0 MP (1920×1080 P) Full HD	
3.	Recording & Playback	25/30fps@1080P, 25/30/50/60fps@720P	
4.	Signal/ Noise ratio	65 dB or more	
5.	Minimum illumination	0.001 lux Color normal light; 0.0 Lux B/W with IR LED switched on	
6.	Video Output	1Vp-p, 75 Ω, Composite	
7.	Lens focal length (Varifocal)	2.8 to 12mm	
8.	Shutter speed Range	1/50 - 1/100,000 sec or exceeding	

9.	Power input	12 VDC/24 VAC	
10.	Wide Dynamic Range	DWDR	
11.	Mount	Ceiling/ wall mountable base	
12.	Backlight compensation	BLC/HLC/Off	
13.	Night vision	Integral IR LED	
14.	IR Range	10- 20 meters	
15.	Privacy Mask	Minimum 4 zones	
16.	Lens	Auto Iris	
17.	IP Rating (Ingress Protection)	IP66	
18.	Digital Noise Reduction	Yes	
19.	Product warranty	1 Year Minimum	
20.	Certification	UL/ CE/ FCC	

**Item No 3: Fixed Dome/Bullet HD IR Colour Camera**

Sl. No.	Parameters	Specifications	Compliance
1.	Image Sensor	1/3" CCD	
2.	Effective pixels	2 MP (1920×1080 P) Full HD	
3.	Recording & Playback	30/25 fps for NTSC/PAL respectively	
4.	Signal/ Noise ratio	62 dB or more ( AGC off)	
5.	Minimum illumination	0.001 lux Color, normal light; 0.0 Lux B/W with IR LED switched on	
6.	Video Output	1Vp-p, 75Ω, Composite	
7.	Lens focal length	3.6 mm,	
8.	Shutter speed	1/50-1/100,000 sec	
9.	Power input	12 VDC/24 VAC	
10.	Wide Dynamic Range	DWDR	
11.	Mount	Ceiling/ wall mountable base	
12.	Backlight compensation	BLC/HLC/Off	
13.	Night vision	Integral IR LED	
14.	IR Range	10- 20 meters	
15.	Day & Night	Auto with ICR	
16.	Privacy Mask	Minimum 4 zones	
17.	Lens	Auto Iris	
18.	Protection	IP66	
19.	Product warranty	1 Year Minimum	
20.	Certification	UL/ CE/ FCC	
21.	Image Sensor	1/3" CCD/CMOS	

**Item No 4: 2 MP IP Camera**

Parameters	Specifications
Image Sensor	1/2.8 " Progressive Scan CMOS
Effective Pixels	1280(H)x960(V)
Min. Illumination	0.01 Lux @ (F1.2, AGC ON) ,0 Lux with IR
Shutter Speed	1/3 s to 1/100,000 s
Lens	4mm@ F2.0 (2.8mm, 6mm optional)
	Angle of view: 92.5°(2.8mm), 46°(6mm)
Day &Night	IR cut filter with auto switch
Digital Noise Reduction	3D DNR
Wide Dynamic Range	Digital WDR
Angle Adjustment	Pan:0° - 355°, Tilt: 0° - 65°
Video Compression	H.264/H.264B/H.264H/ MJPEG
H.264 Type	Main Profile
Video Bit Rate	32 Kbps – 12 Mbps
Dual Stream	Yes
Max. Resolution	1920 X 1080
Frame Rate	50 Hz: 25 fps (1280 × 960), 25 fps (1280 x 720), 25 fps (704 x 576), 25 fps (640 x 480), 60 Hz: 30 fps (1280 × 960), 30 fps (1280 x 720), 30 fps (704 x 576), 30 fps (640 x 480)
Image Settings	Rotate mode, Saturation, Brightness, Contrast adjustable by client software or web browser
Backlight compensation	Yes, zone optional
Bit Rate	H.264: 32Kbps ~ 10Mbps
Network Storage	NAS (Support NFS,SMB/CIFS)
Alarm Trigger	Line Crossing, Intrusion Detection, Motion detection, Dynamic analysis, Tampering alarm, Network disconnect , IP address conflict, Storage exception
Ethernet	RJ-45 (10/100Base-T)
Protocols	TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS,RTP, RTSP,RTCP, PPPoE,NTP,UPnP,SMTP,SNMP,IGMP, 802.1X, QoS, IPv6,Bonjour
General	Flash-prevention, dual stream, heartbeat, mirror, password protection, privacy mask, watermark, IP address filtering, Anonymous access
Storage	Micro SD card slot, up to 128GB
Standard	ONVIF, PSIA, CGI, ISAPI
Communication Interface	1 RJ45 10M/100M Ethernet interface
Power Supply	12 V DC ± 10% PoE (802.3af)
Ingress Protection level	IP66
IR Range	20 meters

**Item No 5: Stand Alone IP Camera**

Parameters	Specifications	
Image Sensor	1/3 " Progressive Scan CMOS	
Effective Pixels	1280(H)x960(V)	
Min. Illumination	0.01 Lux @ (F1.2, AGC ON) ,0 Lux with IR	
Shutter Speed	1/3 s to 1/100,000 s	
Lens	4mm@ F2.0 (2.8mm, 6mm optional)	
	Angle of view: 92.5°(2.8mm), 46°(6mm)	
Day &Night	IR cut filter with auto switch	
Digital Noise Reduction	3D DNR	
Wide Dynamic Range	Digital WDR	
Angle Adjustment	Pan:0° - 355°, Tilt: 0° - 65°	
Video Compression	H.264/H.264B/H.264H/ MJPEG	
H.264 Type	Main Profile	
Video Bit Rate	32 Kbps – 12 Mbps	
Dual Stream	Yes	
Max. Resolution	1920 X 1080	
Frame Rate	50 Hz: 25 fps (1280 × 960), 25 fps (1280 x 720), 25 fps (704 x 576), 25 fps (640 x 480), 60 Hz: 30 fps (1280 × 960), 30 fps (1280 x 720), 30 fps (704 x 576), 30 fps (640 x 480)	
Image Settings	Rotate mode, Saturation, Brightness, Contrast adjustable by client software or web browser	
Backlight compensation	Yes, zone optional	
Bit Rate	H.264: 32Kbps ~ 10Mbps	
Network Storage	NAS (Support NFS,SMB/CIFS)	
Alarm Trigger	Line Crossing, Intrusion Detection, Motion detection, Dynamic analysis, Tampering alarm, Network disconnect , IP address conflict, Storage exception	
Ethernet	RJ-45 (10/100Base-T)	
Protocols	TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS,RTP, RTSP,RTCP, PPPoE,NTP,UPnP,SMTP,SNMP,IGMP, 802.1X, QoS, IPv6,Bonjour	
General	Flash-prevention, dual stream, heartbeat, mirror, password protection, privacy mask, watermark, IP address filtering, Anonymous access	
Storage	Micro SD card slot, up to 128GB	
Standard	ONVIF, PSIA, CGI, ISAPI	
Communication Interface	Wi-Fi with software , Smart Config via mobile phone and 1 RJ45 10M/100M Ethernet interface	
Power Supply	12 V DC ± 10% PoE (802.3af)	
Ingress Protection level	IP66	
IR Range	20 meters	

**Item No 6: HD Colour Pin Hole / Hidden Camera**

Sl. No.	Parameters	Specifications	Compliance
1.	Image Sensor	1/3" CCD/CMOS	
2.	Effective pixels	2.0 MP (1920×1080 P) Full HD	
3.	Recording & Playback	30/25 fps for NTSC/PAL respectively	
4.	Signal/ Noise ratio	62 dB or more	
5.	Minimum illumination	0.001 lux Color normal light; 0.0 Lux B/W with IR LED switched on	
6.	Video Output	1Vp-p, 75 Ω, Composite	
7.	Lens focal length (Varifocal)	2.8 to 12mm	
8.	Wide Dynamic Range	Yes	
9.	Mount	Ceiling/ wall mountable base	
10.	Backlight compensation	BLC/HLC/Off	
11.	IR Range	10- 20 meters	
12.	Privacy Mask	Minimum 4 zones	
13.	Lens	Auto Iris	
14.	Digital Noise Reduction	Yes	
15.	Product warranty	1 Year Minimum	
16.	Certification	UL/ CE/ FCC	

**Item No 7: Network Cable**

CAT 6 (T P Link), BIS Certified

**Item No. 8: 64 GB Micro SD Card**

Class 10 UHS 3

**Item No 9: LCD Color Monitor**

1. The Color display shall be suitable with the standards of the selected cameras. It shall be solid state and modular in design. It shall provide a bright, clear and well-defined picture display on the screen.
2. All controls for brightness, contrast etc. shall be provided on the front panel for readily adjusting the levels of the video signal. The rear panel shall be provided with input and output connectors for coupling the video output to other Monitors.
3. The video monitor installed shall be of 19" size LCD.

The LCD monitor should meet the following Specifications.

Sl. No.	Required General Specifications for LCD Monitor
1	Video: PAL / NTSC color composite 1.0Vp-p
2	LCD: 19 "
3	Resolution: 1980/1024 pixels Full HD

4	Viewing angle : 140 degree horizontal,130 degree Vertical
5	Power Input: 90 – 260 VAC, 50/60 Hz
6	Consumption: 40 Watts
7	Certification : ISI/CE/UL/FCC Certificate or any Other standard certificate in the field
8	Manufactured by reputed firm

**Item No 10: Steel Cabinet/4 V Rack:**

Steel Box for keeping NVR System.

**Item No 13: PVC Conduit**

ISI mark PVC Conduit of medium grade with 20 mm diameter will be used for laying Video Cables /Power cables.

**Note:**

1. Vendors are required to specify make and Model of all the equipments quoted for. Technical Literature/ brochures regarding the products should invariably be provided along with technical part of the bid. The specification given in Annexure IV is minimum requirement. Specification on the higher is acceptable with minimum cost. Specification lower than the prescribed shall not be acceptable. Empanelment of vendors may be done on fulfillment of eligibility criteria and fulfillment of technical specification compliance.
2. All components of CCTV system should be compatible to each other.

**PRICE BID FOR SUPPLY & INSTALLATION OF CCTV SURVEILLANCE SYSTEM WITH NVR RECORDER**

Sl. No.	Item description (Same model and Specifications as indicated in the technical sheet)	Qty.	Basic Price	Taxes	Total Cost including all taxes (Rs.)
1.	NVR 8 Channel HD	1			
2.	NVR 16 Channel HD	1			
3.	HDD 4 TB Surveillance Grade	1			
4.	HDD 6 TB Surveillance Grade	1			
5.	Varifocal Bullet IR Colour Camera	1			
6.	Varifocal Dome IR Colour Camera	1			
7.	Fixed Dome IR Colour Camera	1			
8.	Fixed Bullet IR Colour Camera	1			
9.	2 MP IP Camera	1			
10.	Stand Alone IP Camera	1			
11.	Varifocal Bullet IR Colour Camera	1			
12.	64 GB Micro SD Card (Class 10 UHS 3)	1			
13.	19" size LCD Monitor	1			
14.	Network Cable CAT 6 (T P Link), BIS Certified	100 m			
15.	PVC Conduit pipe (In package rate for 100m)	100 m			
16.	Steel Box for keeping NVR System	1			
17.	Yearly Comprehensive AMC charges for 8/16 Channel NVR system for another 3 years after one year warranty period for the above configuration	1Yr			
18.	<b>Total cost = Sum of Sl. No. 1 to 17</b>	<b>1</b>			

Place:

Date:

Authorised Signatory

**GENERAL & TECHNICAL INFORMATION****PART I****TECHNICAL BID (Company Profile)**

Sl. No.	PARTICULARS OF THE COMPANY	
1	Name of the Company	
2	Full Address	
3	Telephone & Mobile No.	
4	Fax No.	
5	E-Mail Address	
6	Constitution of the firm (whether Proprietary / Partnership / Pvt Ltd. / Public Ltd.	
7	Name( of the Proprietor / Partner / Managing Director	
8	Year of Establishment	
9	Registration with the Registrar of Co.	
10	Name(s) of Contact Person (s) with address	
11	Registration with Tax Authority a. PAN No. b. Sales Tax No. Attach latest IT Return filed copy & ST Return filed copy.	
12	Furnish copies of audited Balance Sheet and Profit & Loss Account for the last 3 years. Turn over 2017-18, 2018-19 and 2019-20.	
13	Name & address of the Banker, Nature of facilities availed (if any) (Attach Banker's opinion letter on the conduct of the account.	
14	Whether an empanelled vendor for RBI / SBI/ Nationalized Banks	
II.	<b>DETAILS OF REGISTRATION WITH OTHER BANKS</b>	
1.	Name of the Banks	
2.	Total No. of Systems supplied Attach Work Orders of Last Five Years	
3.	Since when empanelled	

Place:

Date: