

Tender Document

Tender Reference Number RO/AHM/SEC/2021-22/

DATED:-08.07.2021

FOR

Supply, Installation and maintenance on rental basis CMS compatible new CCTV System with all related accessories and Buyback existing CCTV System at Branches and Administrative offices

In

**Central bank of India,
Ahmednagar Region.**

Tender document cost Rupee 500/- only.

Notice inviting for tender (NIT) for

“Supply, Installation and maintenance on rental basis CMS compatible new CCTV System with all related accessories and Buyback existing CCTV System” at Branches and Administrative offices In Central bank of India, Ahmednagar Region.

S. No.	Item	Details
1.	Tender Notice No.	RO/AHM/SEC/2021-22/ DATED:-08.07.2021
2.	Name of work/Service	Limited tender for “Supply, Installation and maintenance on rental basis CMS compatible new CCTV System with all related accessories and Buyback existing CCTV System”
3.	Address for Communication	To, Regional Manager, Central Bank of India, Regional Office , P-56, MIDC Nagapur, Ahmednagar – 414 111
4.	Cost of Tender document	Rs. 500/- (Non Refundable)
5.	Eligible Vendors	Only Empanelled vendors With Central Bank of India, Working in Ahmednagar.
6.	CCTV System require	For Total 34 Branches and Office (Tentative). (Annexure-III)
7.	Buyback available	Branches/Offices as and when available
8.	Time allowed for completion of work	30 days after award of work.
9.	No of Envelops.	Only one Envelop, Through Post or By Hand
10.	Start of submission of Bids/Tenders	09/07/2021
11.	Last date and time for Bid/Tenders submission	30/07/2021 1400hrs.
12.	Last Date for withdrawal/Change/ Update	30/07/2021 1400hrs.
13.	Tentative Date and time of opening of bids	30/07/2021 1500hrs.
14.	Opening Place of Bids	Central Bank of India, Regional Office, Ahmednagar

Central Bank of India, Ahmednagar Regional Office

Request For Quotation From Empanelled Vendors Working in Ahmednagar, Aurangabad and Nasik district of Maharashtra For “Supply, Installation and maintenance on rental basis CMS compatible new CCTV System with all related accessories and Buyback existing CCTV System” at Branches and Administrative offices In Central bank of India, Ahmednagar Region.

1. OBJECTIVE & REQUIREMENT

Bank intends to select a vendor for the installation of CMS (Central Monitoring System) compatible New CCTV on rental basis and buyback installed CCTV at Branches and Administrative Office of Central bank of India under the jurisdiction of Ahmednagar Regional Office. The supply order for Rental requirement at Branches will be on need basis and will be placed / made by the Ahmednagar Regional Office. The selected vendor will also provide AMC support. The contract shall be minimum for three years and further extendable for two more years on reviewing the performance by the Ahmednagar regional office.

Tender document can be downloaded from the Bank's website www.centralbankofindia.co.in. However, for Tender document downloaded from website, the Pay Order/ Demand Draft will have to be submitted along with the Techno-Commercial Offer. Quotation will be valid for minimum 90 days and there will be no EMD.

2. SCOPE OF WORK The scope of work would include the following:-

- A. Installation and commissioning of New CCTV System and related accessories at branches on rental basis and also shifting of existing CCTV system with accessories from Branches in case of merger / closure. Order for such installation and shifting will be placed / made by the respective Regional Office on need and case to case basis. Installation will be made as per bank security policy and Central office Circular orders.
- B. Buyback of Existing installed CCTV System by bank of CAPEX model for branches/offices will be compulsory.
- C. Extraction of footage as and when demanded.
- D. Quarterly inspection of installed system and report submission to the respective Regional Office.

Interested participants may conduct an initial Survey of some of our Branches (after taking approval from the Regional Office) to assess the current state. The firm has to conduct the survey at their own cost. Bank will not pay anything in this regards.

3. TERMS & CONDITIONS

- A. The Quotation shall be in the prescribed format only as given below and on the letter head of the party in a sealed cover super scribing **"Quotations for Supply, Installation, and maintenance on rental basis for New CCTV system and Buyback existing CCTV at Branches under Ahmednagar Regional Office"** and shall be submitted to the Ahmednagar Regional Office, on or before due date i.e. 30/07/2021 **at 1400 Hrs.** Any change in offer opening date will be informed or update.
- B. The tender shall be valid for a period of not less than 90 days after the date of opening of Tender.
- C. The rates shall have to be quoted only in the prescribed format mentioned in **Annexure I.**
- D. The supplier shall provide specify condition of after sales service in his quotation. A service level agreement shall be entered with the successful bidder.
- E. The Bank has got the right to accept or reject one or all the quotations without assigning any reasons.
- F. The Bank is not responsible for any delay in receipt of quotation sent by post/courier. The parties can submit the quotation at the above mentioned address on or before the due date and obtain the acknowledgement.
- G. CMS compatible New CCTV System should be capable to 90 days recording storage.
- H. The payment for the Rental charges will be made by the respective Branch or office after submission of satisfactory and timely repairs of CCTV System and its accessories as per specifications with duly vetted report from concerned Branch Manager to Regional Office. The order for any new installation will be placed / made by the Regional Office. All payments will be made through NEFT.
- I. The payment will be made after each and every financial quarter on satisfactory service.
- J. No advance payment shall be made. The payment after the applicable deductions shall be made by crossed cheque /Net banking only.
- K. The Company must depute their technicians to attend, any complaint with in specified time, to the concerned Branch / Administrative Office on receiving the information in writing or over the phone. The defects reported from any local Branch / Administrative Office will be attended to and repaired/resolved within 24 hours.
- L. The Company has to depute their technician to make four mandatory quarterly visits to all the Branches / Administrative Offices. A quarterly summery of the visit showing the type of CCTV and its accessories installed at the Branches and their working status along with the duly signed visit report by the respective Branch

- Managers / Administrative Office-in-charges are to be submitted to the Security/GAD Department positively.
- M. At the time of installation / maintenance visit the Company representative will give demonstration of operation / use of the CCTV System and its accessories. The company should depute technicians who are competent and capable to maintain / repair the CCTV System and its accessories. They should also be equipped with adequate spare parts and tools to carryout repairs at the Branch / Administrative Office at the time of visit.
- N. The Bank reserve the right to terminate / modify the contract partly or fully, anytime without assigning any reason whatsoever. The Bank also reserves the right to deduct / forfeit any amount as deemed fit, payable for the installation / maintenance in case the required standards / specification of repairs / maintenance and installations are not kept / maintained and time schedule as laid down is not adhered to by the Company. Bank can terminate the successful contract after one month notice if require.
- O. Any new installation of CCTV and Accessories at any Branch / Administrative Office, whenever ordered, will be installed by the Company within 10 days from the receipt of confirmed order, from the Regional Office. Any delay in this will call for cancellation of order and penalty as decided by the Bank.
- P. All the payments for AMC, rental charges shall be paid on quarterly basis by respective branch/ office and repair/replacement charges will be released by the respective Branches. The copy of the invoice along with the original installation certificate duly signed by the Branch Manager has to be submitted with the Regional Office (GAD/ Security Department) for the office record.
- Q. In case of the defects not being attended to on time, Bank reserves the right to carry out the work through any other agency / agencies and such expenditure will be recovered from the vendor in due course of time.
- R. No advance shall be paid. Payment shall be done on completion of work. The bill shall be paid only on completion of the work to the satisfaction of occupant and Bank.
- S. The storing of material shall be the vendor's responsibility at his cost. The vendor shall be responsible and liable for compliance of all applicable labour laws including Workmen's Compensation Act, Contract Labour, Shops & Establishment, Policy of Insurance, Fire insurance. At no time shall you claim the above from the Bank.
- T. The vendor shall take care that the work is carried out without causing damage to the premises, electrical cables, etc. Any damage caused shall be rectified by the vendor at his own cost.
- U. The vendor shall vouch for safe, bonafied conduct and fidelity of the staff employed by him. Any damages caused willfully or in negligence to the work executed by him or other agencies shall be borne by him.
- V. Watch and ward in respect of all materials / equipment at the site for use in work shall be the vendor's responsibility.

- W. The vendor has to keep the upkeep time of 99% and provide a suitable mechanism for lodging and monitoring of complaint. An escalation matrix shall form part of the SLA.
- X. Any other conditions stipulated at the time of the placing the Orders have to be complied with.
- Y. In the event of any dispute the sole arbitrator will be appointed by the consent of both the parties.
- Z. **The vendor participating in the tender process should have or will establish their operational office in Ahmednagar Region and a 24*7*365 day customer care officer will appoint with contact details like mobile, E-mail and same will be provided each and every branch/ office. Every complaint made/ informed to customer care officer will be registered and a unique complaint number will be provided to branch/ office for future query and resolution. A complaint escalation Matrix will be made by vendor for Branch, RO, ZO, Bill and GST Dept. etc.**

4. SPECIFICATIONS/ REQUIREMENT FOR THE NEW CCTV SYSTEM

The New CCTV system Installation Should be CMS compatible with minimum 90 days recording storage capacity. The CCTV System and accessories installation will be as per bank Security policy, Circular order of Central Office and will be updated as required and suggested by Central Office, Mumbai. Current detailed technical specification of equipment provided by Central Office is given in Annexure-II. DVR will be installed suitable hidden in lock and key cabinet.

Detailed technical specifications are placed at Annexure-II.

(As provided by CO and check update if have any)

5. OTHER TERMS & CONDITIONS

The offer should be submitted in a sealed cover super scribing on the envelop **“Quotations for Supply, Installation, and maintenance on rental basis for New CCTV system and Buyback existing CCTV at Branches under Ahmednagar Regional Office”**.. The price bids should be unconditional and submitted as per Annexure-I (No change is permitted in the format). The offer should be submitted to the Senior Regional Manager, at Ahmednagar Regional Office, on or before due date i.e. **30/07/2021 at 1400 Hrs.** The Offer should be complete in all respects and contain all information asked for in this document. Buyback will be compulsory for bidding. In case of change/update in offer document a fresh new offer will be submitted by vendor with fee. In case of Withdrawal fee will not be refunded.

Note: The RFQ documents should be submitted in original, duly signed and stamped at each page. Fax/ telegram/telex will not be acceptable.

6. PROCESS

Interested participants may conduct an initial Survey of some of our Branches (after taking approval from the Regional Office) to assess the current state. Subsequently, the firms are required to submit the Offers.

Order will be placed to the suppliers/vendors/manufacturers finally selected for supply, installation and maintenance of CCTV System and Accessories installation at Branches under Ahmednagar Regional Office .**The bank reserves the right of placement of order over a period of three months from the date of finalization of the vendor.**

7. OPENING OF OFFERS

The Offers will be opened at **15.00Hrs on 16.07.2021 (tentatively)**. The bidders/ their representatives may be present at the time of opening of the Offers. No separate intimation will be sent in this regard to the suppliers for deputing their representatives. The offers will be opened at the time and date stipulated above irrespective of the number of offers/ bidders or their representatives present, any change will be inform.

8. During contract period supplier should attend to all repairs/ defects/ replacement of major/minor spare parts free of cost. In case of failure on the part of the supplier to attend to the defects within a reasonable period, the Bank on its own will get the defects rectified through another agency at the risk and cost of supplier and repairs rectified through another agency in such circumstance will not affect the liabilities of the supplier on the warranty for its remaining period.

Supplier shall be fully responsible for the manufacturer's warranty in respect of proper design, quality and workmanship of all equipment, accessories, etc., covered by the offer. The supplier must warrant all equipment's, accessories, spare parts, cables, etc., against any manufacturing defects during the contract period. During the contract period the supplier shall maintain the equipment and repair/replace all the defective components including cables at the installed sites. No additional charge of whatsoever nature will be paid by the Bank.

Bank will not be responsible for any harm/damage/dismantle/ theft/loot done by/ made/ or occurred by natural disaster fire, flood, earthquake or similar elements of nature, or acts of God, war, terrorism, riots, civil disorders, rebellions or revolutions, acts of government authorities animal/ pet or rodent to CCTV System and its all equipment, accessories, etc.

9. RENTAL CONTRACT: - Should the Bank decide to install the CCTV system on rental basis as per the requirement of branches, the supplier needs to install the same within 10 days of order issued. The rental charges shall be paid on quarterly basis by the respective branch/ office post submission of quarterly inspection report duly signed by the concerned branch managers. All the defect/repair/replacement shall be under the purview of the supplier. The

supplier should ensure quality power supply being fed to the CCTV system and any claim arising due to faulty power supply shall not be entertained. The devices should have surge protection installed to safeguard from any such failure. The Bank shall not pay any amount over and above the quoted price for rental value and supplier should provide a complete functional CCTV system to the branches.

10. PENALTY CLAUSE: - CCTV system not recording/ no video output will be treated as failure of system and will be treated/resolve at utmost priority. The vendor shall have to resolve the issue within 24 hours of raising the service request (excluding Sundays and three National Holidays). Penalty will be charged Rs 100/- per day, maximum Rs.700/- per month of delay after 24 hours. However, if problem remains unresolved after one week, the Bank reserves the right to cancel the order / contract.

11. PAYMENTS

Rental charges shall be paid by the respective branch/ office after each financial quarter on submission of report duly authenticated by the concerned Branch Manager. No penalty or interest etc., shall be payable by the Bank for any overdue charges. The full payment shall be made post acceptance of the system only.

12. SELECTION CRITERIA

The contract will be awarded to fulfilling all criteria participant vendor whose rates will be the lowest.

13. INDEMNITY

The selected agency/ organization shall indemnify and hold the Bank harmless from & against any & all claims, liability, loss, demands, damages, actions, costs and charges including legal expenses & counsel fees suffered or ascertained by the Bank or any third party dues for the Acts or omission on the part of vendor in operating, maintaining, monitoring the equipment, to which the Bank may become subject to or which it may have to pay or be held liable there for reason of any injury to persons, reputation or property suffered or sustained by any agency or employee of the Bank or arising out of negligence or omission of the selected agency/ organization.

14. THIRD-PARTY INFRINGEMENT CLAIMS

Supplier will defend at its expense or settle any third-party claim against Customer or its Affiliates alleging that Products, Services or Deliverables provided under this Agreement infringe intellectual property rights in the country where they were sold. Supplier will pay infringement claim defense cost, Supplier-negotiated settlement amounts, and damages finally awarded by the court. Supplier has no obligation for any claim of infringement arising from, and Customer will indemnify Supplier against any third-party claim arising from: (i) Supplier's compliance with Customer or third-party designs, specifications, instructions, or

technical information; (ii) modifications made by any party other than Supplier; (iii) Customer's non-compliance with applicable Documentation (iv) Use of Products, Services or Deliverables for purposes not contemplated by this Agreement or applicable Documentation (including distribution to third parties); (v) Customer use or combination of Products, Services or Deliverables with products, software, or services that are not provided by Supplier; or (vi) a Product, Service, or Deliverable that is not at the most current release level if the most current release level is non-infringing.

15. LIMITATION OF LIABILITY

The Bank shall not be liable for any special or consequential damages that results from the use of, or the inability to use the materials on the site or the performance of the products. Applicable law may not allow the limitation or exclusion of liability or incidental or consequential damages so the above limitation or exclusion may not apply to you.

16. FORCE MAJEURE

Any failure or delay by bidder or Bank in performance of its obligation, to the extent due to any failure or delay caused by fire, flood, earthquake or similar elements of nature, or acts of God, war, terrorism, riots, civil disorders, rebellions or revolutions, acts of government authorities or other events beyond the reasonable control of non-performing Party, is not a default or a ground for termination. If Force Majeure situation arises the Vendor shall promptly notify Bank in writing of such conditions and the cause thereof. Unless otherwise agreed by bank in writing, the Vendor shall continue to perform its obligations under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

Governing Law and Disputes (Applicable in case of successful bidder only)

All disputes or differences whatsoever arising between the parties out of or in connection with this contract or in discharge of any obligation arising out of the Contract (whether during the progress of work or after completion of such work and whether before or after the termination of this contract, abandonment or breach of this contract), shall be settled amicably. If however, the parties are not able to solve them amicably, party (CBI or Vendor), give written notice to other party clearly setting out there in specific dispute(s) and/or difference(s) and shall be referred to a sole arbitrator mutually agreed upon, and the award made in pursuance thereof shall be binding on the parties. In the absence of consensus about the single arbitrator, the dispute may be referred to joint arbitrator; one to be nominated by each party and the said arbitrators shall nominate a presiding arbitrator, before commencing the arbitration proceedings. The arbitration shall be settled in accordance with the applicable Indian Laws. Any appeal will be subject to the exclusive jurisdiction of courts at Mumbai.

The Vendor shall continue work under the Contract during the arbitration proceedings unless otherwise directed by the Bank or unless the matter is such that the work cannot possibly be

continued until the decision of the arbitrator is obtained. Arbitration proceeding shall be held at Mumbai, India, and the language of the arbitration proceedings and that of all documents and communications between the parties shall be in English.

Annexure -I

COMMERCIAL BID

SUPPLY, INSTALLATION ON RENTAL FOR CCTV SYSTEM WITH ACCESSORIES AT BRANCHES UNDER AHMEDNAGAR REGION

EQUIPMENT(Table-1)

Sr No	Item description	Make & Model	Unit	Monthly Rental Rate (Rs)	Qty	Total Monthly Rental Rate (RS)
1	'4' Channel DVR with CMS port - CMS compatible. Synchronous play back at 1080 resolution. Compression H 264		Nos		1	
2	'8' Channel DVR with CMS port - CMS compatible. Synchronous play back at 1080 resolution. Compression H 264		Nos		1	
3	'16' Channel DVR with CMS port - CMS compatible. Synchronous play back at 1080 resolution. Compression H 264		Nos		1	
4	'2' TB HDD	Seagate/WD	Nos		1	
5	'4' TB HDD	Seagate/WD	Nos		1	
6	Varifocal HD WDR & IR dome camera 1.3 MP/720p		Nos		1	
7	1.3 MP/720p Varifocal HD IR Bullet Camera(weather/vandal resistant)		Nos		1	
8	LED colour monitor 19.5"/21"		Nos		1	
9	Cabling with RG 6 video cable and Power cable in PVC conduit. (per mtr one time)		Mtrs		Per mtr	
10	VGA Cable 10 mtr		Mtrs		10	
11	2U DVR Rack with installation		Nos		1	
12	4U DVR Rack with installation		Nos		1	
13	SMPS Power supply for 8-Ch DVR		Nos		1	
14	SMPS Power supply for 16-Ch DVR		Nos		1	
Total						

Seal and Signature of the Service Provider

Table-2 Miscellaneous Work

Sr No	Item description	Make & Model	Unit	Rate (Rs)	Qty	Total Rate (RS)
1	Per Camera shifting & re- installation charges (in case of shifting / renovation at Branch)		Nos		1	
2	Per Camera repositioning charges within the existing Branch premise.		Nos		1	
3	Installation / Re-Installation and commissioning of DVR charges		Nos		1	
4	Retrieval of CCTV footages per branch per visit.		Nos		1	
	Total					

- * Taxes will not be considered while arriving at L1.
- * Payment/Rental for cabling will be purely on actual usage.
- * L1 rate will be arrived at taking into consideration, the rates and the total amount quoted for the Equipment estimated for system at Table I respectively. 8ch CCTV system will be considered as base if required.
- * Cabling with RG 6 video cable and Power cable in PVC conduit will be one-time paid as actual use by branch.

TABLE NO-03 BUYBACK EXISTING CCTV SYSTEM INSTALLED

SR. NO	EXISTING ITEM DESCRIPTION	BUYBACK RATE (RS.)
1	4CH DVR	
2	8CH DVR	
3	IR BULLET CAMERA	
4	IR DOME CAMERA	
5	STORAGE DEVICE "2" TB	
6	STORAGE DEVICE "4" TB	
	TOTAL	

Seal and Signature of the Service Provider

Annexure-II

MINIMUM TECHNICAL SPECIFICATIONS REQUIRED FOR THE SECURITY GADGET

TECHNICAL SPECIFICATION FOR 4/8/16 CHANNEL STAND ALONE TRIBRID DIGITAL VIDEO RECORDER (DVR)					
Sr No	Parameters	Specifications			Remarks
1	Video compression	4-Channel	8-Channel	16-Channel	All has to be Min 2 MP HD DVR's
		H.264High Quality Decoding			Must be Min 2 MP HD DVR's
2	Analog and HD-TVI video input	4-Channel	8-Channel	16-Channel	Min required Resolution 1080 x 720
		BNC interface (1.0Vp-p, 75 Ω)			Full Copper Wired BNC
3	Supported camera types	AHD, TVI, Existing Analog Camera, IP, 720P/25, 720P/30, 720P/50, 720P/60, 1080P/25, 1080P/30, CVBS cameras,			
4	IP video input	1-Channel (total upto 5 Channel)	2-Channel (total upto 10 Channel)	2-Channel (total upto 18 Channel)	
		Min 2 MP resolution			
5	Audio compression	G.711u			
6	Audio input / Two-way audio in	4-Channel	8- Channel	16 -Channel	
		(2.0 Vp-p, 1 KΩ), Min 1-Max 4 Audio inputs			
7	HDMI / VGA output	1920 × 1080 / 60 Hz, 1280 × 1024 / 60 Hz, 1280 × 720 / 60 Hz, 1024 × 768 / 60 Hz			
8	Encoding resolution	Main stream: 1080P(non-real-time) / 720P / VGA / WD1 / 4CIF / CIF			
		Sub-stream: WD1 / 4CIF(real-time) / CIF / QCIF / QVGA			
9	Frame rate	Main stream: 1/16 fps ~ Real time frame rate			
		Sub-stream: 1/16 fps ~ Real time frame rate			
10	Video bitrate	32 Kbps to 6 Mbps			
11	Audio output	1-ch, RCA (Linear, 1KΩ)			
12	Audio bitrate	64 Kbps			
13	Dual-stream	Support			
14	Stream type	Video, Video & Audio			
15	Synchronous Playback Resolution	4-Channel	8- Channel	16 -Channel	
		1080P / 720P / WD1 / 4CIF / CIF / QCIF/ MPEG4			
16	Network protocols	TCP/IP, PPPoE, DHCP, DNS, DDNS, NTP, SMTP, SNMP, NFS, iSCSI, UPnP™, HTTPS			EZVIZ Cloud P2P - If available, is to be desabled
17	SATA	Min 1 SATA interface (Each SATA to support upto 4 TB) for 4 Channel			
		Min 1 SATA interface (Each SATA to support upto4			

		TB) for 8 & 16 Channel			
18	Capacity	4-Channel	8- Channel	16 -Channel	
		2 TB HDD	4 TB HDD	4 TB HDD	
19	E SATA	1 PORT			
20	Network	4-Channel	8- Channel	16 -Channel	
	interface	1; 10M / 100M self-adaptive Ethernet interface		1; 10M / 100M / 1000M self-adaptive Ethernet interface	
21	Serial interface	1; standard RS-2085 serial interface, Half duplex/ Full duplex			
22	USB port	2 × USB2.0 Ports			
23	Alarm in / out	4 INPUT / 1 OUTPUT		4 INPUT / 2 OUTPUT	
24	Power supply	12V DC			
25	Consumption (without hard disks)	≤ 15W	≤ 20W	≤ 30W	
26	Working temperature	-10 °C ~+55 °C (14 °F ~ 131 °F)			
27	Working humidity	10% ~ 90%			
28	Chassis	1U chassis		1U/2U chassis	
29	Certifications	UL,CE,FCC			
30	Recording Resolution	1080p/ 720p/ VGA/ WD1/ 4CIF/ CIF/ QVGA/ QCIF			
31	Record Rate- Main Stream	1080p/ 720p/ VGA/ WD1/ 4CIF/ CIF/ QVGA/ QCIF (1/16 fps to Real-time frame rate)			
32	Record Rate- Extra Stream	WD1/ 4CIF/ CIF/ QCIF/ QVGA (1/16 fps to Real-time frame rate)			
33	Record Mode	Manual/ Schedule/ Motion detection			
34	Privacy Masking	Supported			
35	OSD	Camera Title, Time, Vide Loss, Recording, Motion Detection			
36	Remote	Yes, IR			
37	Accepted Make/Brand	Hikvision, Dahua, Methodex			

TECHNICAL SPECIFICATION FOR 4/8/16 CHANNEL

NETWORK VIDEO RECORDER (NVR)

Sr. No	Parameters	Specifications	Remarks
1	IP video input	8Ch/ 16 Ch	
2	Two-way audio	1 Ch, RCA (2.0 Vp-p, 1KΩ)	
3	Incoming bandwidth	2 Mbps	
4	Outgoing bandwidth	2 Mbps	
5	Remote connection	128	
6	Recording resolution	6MP/5MP/3MP/2MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF/ MP4 /AVI	
7	Frame rate	Main stream: Min 30 fps/ 50 fps (P)/ 60 fps (N) Sub-stream: 50 fps (P) / 60 fps (N)	
8	HDMI/VGA output	1 Ch, resolution: 1920 × 1080 /60Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz	
9	Audio output	1-ch, RCA (Linear, 1KΩ)	
10	Live view / Playback resolution	6MP/5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	
11	Capability	8-ch@720P, 6-ch@1080P	
12	SATA	8 SATA interfaces for 4 HDDs + 1 DVD-R/W (default), or 8HDDs (1 or 2 HDD support is also fine for branches with high capacity HDD for cost effective solution)	
13	eSATA (Optional)	1 eSATA interface	
14	Capacity	Up to 4/6/8 TB capacity for each HDD to cover 90 days recording	

15	Network interface	2 RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet interfaces	
16	Serial interface	RS-232 and RS-485	
17	USB interface	2 × USB 2.0 + 1 × USB 3.0	
18	Alarm in / out	16/ 4 (optionally can be expanded to 16/ 8)	
19	Power supply Consumption(without hard disk or DVD-R/W)	100 ~ 240 VAC ≤ 20 W	
20	Working temperature	-10 °C ~ +55 °C (14°F ~ 131°F)	
21	Working humidity	10 % ~ 90 %	
22	Chassis	19-inch rack-mounted 2U chassis	
23	Dimensions (W × D × H)	Preferred - 445 × 470 × 70 mm (17.5" × 18.5" × 2.8")	Size may change as required
28	Weight(without hard disk or DVD-R/W)	Preferred = ≤ 8 kg (17.6 lb)	Weight may change as required
29	Accepted Make/Brand	Hikvision, Dahua, Methodex	

VARIFOCAI HD WDR (WIDE DYNAMIC RANGE) & IR (INFRARED RANGE) DOME CAMERA

Sr. No	Parameters	Specifications	Remarks
1	Image Sensor	1.3MP 1/3" CMOS Image Sensor	
2	Effective Pixels	1280(H)*960(V)	
3	Min. Illumination	0.01 Lux @(F1.2,AGC ON), 0 Lux with IR	
4	Shutter Time	1/25(1/30) s to 1/50,000 s	
5	Lens	2.8 - 12 mm @ F1.4	

		Angle of view: 97° - 30.4°	
6	Lens Mount	φ14	
7	Angle Adjustment	Pan: 0 - 360°, Tilt: 0 - 75°, Rotation: 0 - 360°	
8	Day & Night	Auto with ICR	
9	Synchronization	Internal synchronization	
10	Video Frame Rate	720p@25fps/720p@30fps	
11	HD Video Output	1 Analog HD output	
12	CVBS Output	Can Connect to any existing or HD DVR	
13	S/N Ratio	>62dB	
14	Working Temperature/Humidity	-40 °C to +60 °C(-40 F - 140 F)	
		Humidity 90% or less (non-condensing)	
15	Power Supply	12V DC±15%	
16	Power consumption	4.7 W maximum	
17	Weather Proof Ratings	IP66	
18	IR Range	Minimum 10 meters	
19	Certifications	UL / CE / FCC	
20	Accepted Make/Brand	Hikvision, Dahua, Methodex	

NOTE: - The Camera facing the main entrance of the Branch or the locations where the Sun lights appear opposite to the camera must be a WDR type or equivalent camera. The purpose is to see the object or person image clearly in the monitor screen.

FIXED 1.3MP IP IR DOME CAMERA

Sr. No	Parameters	Specifications	Remarks
1	Video standards	H.264 / MPEG4 / MJPEG	
2	Sensor	1/3 inch HD resolution CMOS/CCD	
3	Scanning	Progressive Scan system	
4	System Compatibility	ONVIF	
5	Resolution	720 to 1280 (H) x 960 (V)	
6	Signal Stream	Dual Stream	
7	Lens	Min 3.6 mm - Max 12 mm	
8	Minimum Illumination	0.01 lux@F1.2 0 lux with IR	
9	IR Cut Filter	Yes	
10	Wide Dynamic Range	Yes	
11	Digital noise reduction	3D DNR (if Audio enabled Camera)	
12	Day & night	Auto ICR	
13	AGC	Yes	
14	BLC/HLC	Yes	
15	Iris control	DC drive	
16	IR Range	Minimum 10 meters	
17	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6,	
18	Ethernet	1 RJ45 10M / 100M Ethernet port	
19	Input voltage	12 VDC $\pm$ 10% or PoE, IEEE 802.3 af	
20	Operating Temp.	-10°C to +50°C	
21	Operating Humidity	Humidity 95% or less (non-condensing)	
22	Local Storage	Micro SD/SDXC card slot, up to 128 GB (High Speed HD Card)	
23	Alarm trigger	Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception	
24	Security	Watermark, User authentication, IP address filtering, anonymous access.	
25	Enclosure	IEC60068 up to IK10 Impact protection	
26	Certification	UL / FCC / CE	
27	Accepted Make/Brand	Hikvision, Dahua, Methodex	

VARIFOCAI HD IR BULLET CAMERA

क्षेत्रीय कार्यालय : अहमदनगर REGIONAL OFFICE AHMEDNAGAR

Sr. No	Parameters	Specifications	Remarks
1	Image Sensor	1.3MP 1/3" CMOS Image Sensor	
2	Effective Pixels	1080 to 1280(H)*960(V)	
3	Min. Illumination	0.01 Lux @(F1.2,AGC ON), 0 Lux with IR	
4	Shutter Time	1/25(1/30) s to 1/50,000 s	
5	Lens	2.8 - 12 mm @ F1.4	
6		Angle of view: 97° - 30.4°	
7	Lens Mount	φ14	
8	Angle Adjustment	Pan: 0 - 220°, Tilt: 0 - 75°, Rotation: 0 - 220°	
9	Day & Night	Auto with ICR	
10	Synchronization	Internal synchronization	
11	Video Frame Rate	720p@25fps/720p@30fps	
12	HD Video Output	1 Analog HD output	
13	CVBS Output	Can Connect to any existing or HD DVR	
14	S/N Ratio	>62dB	
15	Working Temperature/Humidity	-40 °C to +60 °C(-40 F - 140 F)	
16		Humidity 90% or less (non-condensing)	
17	Power Supply	12V DC±15%	
18	WDR	120 Db	
19	Weather Proof Ratings	IP66	
20	IR Range	From 10 to 40 Meters	
21	Certifications	UL / CE / FCC	
22	Accepted Make/Brand	Hikvision, Dahua, Methodex	

FIXED HD IR BULLET CAMERA

Sr. No	Parameters	Specifications	Remarks
1	Image Sensor	1.0MP 1/3" CMOS Image Sensor	
2	Effective Pixels	1080 to 1280(H)*960(V)	
3	Min. Illumination	0.01 Lux @(F1.2,AGC ON), 0 Lux with IR	
4	Shutter Time	1/25(1/30) s to 1/50,000 s	
5	Lens	3.6 mm (6 mm, 12 mm optional)	
6		Angle of view: 97° - 30.4°	
7	Lens Mount	φ14	
8	Angle Adjustment	Pan: 0 - 220°, Tilt: 0 - 75°, Rotation: 0 - 220°	
9	Day & Night	Auto with ICR	
10	Synchronization	Internal synchronization	
11	Video Frame Rate	720p@25fps/720p@30fps	
12	HD Video Output	1 Analog HD output	

13	CVBS Output	Can Connect to any existing or HD DVR	
14	S/N Ratio	> 62dB	
15	Working Temperature/Humidity	-40 °C to +60 °C (-40 F - 140 F)	
		Humidity 90% or less (non-condensing)	
17	Power Supply	12V DC±15%	
18	Weather Proof Ratings	IP66	
19	IR Range	Upto 30m	
20	Certifications	UL / CE / FCC	
21	Accepted Make/Brand	Hikvision, Dahua, Methodex	

TECHNICAL SPECIFICATIONS FOR 21"/32" LED COLOUR MONITOR

Sr. No	Parameters	Specifications	Remarks
1	Screen	TFT-LED Backlight	
2	Screen Size	19.5 Inches/ 21 Inches / 32 Inches	
3	Resolution	1920 X 1080 Full HD Display	
4	Viewing Angle	170 Degree Wide	
5	Video Input Mode	HDMI, VGA, RC Signal	
6	On-Screen Display (OSD) Menu	True Colour and User Friendly operation Menu	
7	Aspect Ratio	Supports 16:9 or 4:3 aspect ratio selectable in OSD Menu	
8	Audio	Built-In Speaker and Audio Amplifier Adopt 3D Noise Reduction Technology	
9	Mount	VESA stand	
10	Certification	ISI / CE / UL / FCC Certificate or any other standard certificate in the field	
21	Accepted Make/Brand	Sony, LG, Samsung, Hikvision, Dahua	

क्षेत्रीय कार्यालय : अहमदनगर REGIONAL OFFICE AHMEDNAGAR

S. NO.	BRANCH	NEW REQ.	CCTV	S. NO.	BRANCH	NEW REQ.	CCTV
1	Ahmednagar	8CH					
2	Alkuti	8CH					
3	Bargaon Nandur	8CH					
4	Dehare	8CH					
5	Dolasane	8CH					
6	Gunjalwadi	8CH					
7	Jamkhed	8CH					
8	Ganore	8CH					
9	Ghargaon	8CH					
10	Kalas Budruk	8 CH					
11	Kotul	8 CH					
12	Madhe Wadgaon	8 CH					
13	Nagapur MIDC	8 CH					
14	Pathardi	8 CH					
15	Pemgiri	8 CH					
16	Rahuri	8 CH					
17	Ruichattisi	8 CH					
18	Rumbhodi	8 CH					
19	Sakur	8 CH					
20	Samsherpur	8 CH					
21	Sangamner	8 CH					
22	Shendi	8 CH					
23	Shrigonda	8CH					
24	Shri shivaji Nagar	8CH					
25	LDM Office	8 CH					
26	Currency Chest						
27							
28							
29							
30							
31							
32							
33							