

**Invitation of Bids for Supply & Installation of CCTV System, Fire cum Burglary Alarm System
in our all branches/offices under Surat Zone**

Bids are invited from reputed vendors THROUGH Gem Portal for Supply, Installation of CCTV System, Fire cum Burglary Alarm System & Comprehensive Annual Maintenance Contract (AMC) of our old systems for our bank branches/Offices under Surat Zone.

Only Following criteria will be considered:-

- Reputed vendor specializing in providing security gadgets to nationalized Banks.
 - Ability to undertake all Security gadgets related installation work for all branches thought the Zones.
 - Have ability to provide hassle free services.
 - Ability to commence services within 10 days from date of placement of order
 - Vendor should have local office in Surat/Baroda/Ahmedabad.
 - Vendor should have a credible supervisory infrastructure and network for installation and maintenance of security gadgets as also for follow up with law enforcement agencies.
 - Vendor should provide the latest Income Tax assessment order and PAN number.
 - Vendor should have a Certificate of Registration with Registrar of companies or Registrar of firms or have letter of Proprietorship.
 - Vendor should provide the latest audited balance Sheet.
 - Vendor should be registered with shop and Establishment act and provide latest certificate for ESI Corporation.
 - Vendor should be registered under appropriate authority for GST.
 - Bank reserve the right to award the contract work in lump sum or in parts.
 - Bank reserve the right to award the contract work to single service provider or can engage 02 service providers on L1 rates (Even bank can offer the contract to L-2 or L-3 bidder on negotiable rates if L-1 bidder fail to provide the service within stipulated time.)
 - **Application are to be sent through Gem Portal, including are as under:**
 - **Part-I** Technical Bids to include profile of the company, List of Major Existing Clients, Registered number and sales tax details
 - **Pari-II** Net rates (Inclusive of all taxes and levies) item wise be mentioned
- (c).** Part –II will be opened only if bank is satisfied with part-I. Bank reserve the rights to reject any/ all the bids without assigning any reason thereto
- (d).** other terms & Condition are given at the annexure-I of this advertisement
- (e).** Bids to contain non-refundable BD/BC of Rs. 1000/- only.
- (f) EMD amount will be deposited for per tender of Rs. 3000/- through cheque/DD on the name of Zonal Manager, UCO Bank, Zonal Office, Surat (with attached to technical bid).
- (g) Performance bank guarantee (BG) shall be deposited @ 5% of total cost of work order by the successful bidder.
- (H) Bank has reserve the right to cancel or postpone the tender at any point of time without any prior information.**
- (I) Last date of Submission of Tender 21.02.2025 till 16.00 PM.**

Zonal Head
Zonal Office
Surat

Annexure-I

OTHER MANDATORY REQUIREMENTS

1	All imported products, e.g. Cameras, DVRs should carry quality certification i.e. CE / FCC / UL. (Copies to be enclosed) and all Cable and PVC conduit i.e. ISI Mark (Should be marked as Annexure-1) There is no requirement of UL/CE/FCC certification if the equipment carries a BIS Certification(which is mandatory)
2.	For procurement of IP cameras, it is to be ensured that the IP Camera is STQC compliant as per enclosed Gazette Notification of Govt. of India.
3.	The procurement of CCTV to be through GeM (Two Bid System) - in the Technical Bid the Service Integrators can be selected and in Price Bid the CCTV system (as per enclosed Technical Specifications) can be procured, In Surat Zone branches/Offices locations where they are to be installed. Similarly, Comprehensive AMC of our existing system CCTV.
3.	The CCTV to be procured by the Zone will be as per the technical Specification.
2	Products should be from ISO certified Manufacturer & Supplier. (Copies to Be Enclosed)
3	Copies of Back-To-Back Authorized Dealership Certificates to Be Enclosed.
4	Local Address & Telephone Number of All Service Centers should be provided.
5	Copies of GST No.
6	Copy of PAN No. Registration (Should be marked as Annexure-6)
7	Brochures / Technical Data Sheets of products offered (Should be marked as Annexure-7.1, 7.2, 7.3 etc.).

Signature Seal of the Vendor

Documents Required To Be Submitted By the Vendor

S.No .	Documentary proofs	Provided (Yes/ No)
1	Proof of local address in City of Ahmedabad/Vadodara/Surat.	
2	Registration under Shops & Establishment act.	
3	List of clients with contact details.	
4	Certificate of Registration with Registrar of Companies or Registrar of Firms or have a letter of proprietorship as applicable.	
5	Copies of last three year ITR.	
6	Minimum Turnover 50 Lacs per year	
7	TAN / PAN/GST registration.	
8	Copies of Audited account balance Sheet of preceding 3 years.	
9	Copies of last three years account statement/ GST returns.	
10	Insolvency certificate from Bank not older than 1year.	
11	Proof of payment of Tender fee/ DD	
12	Copies of similar contracts/ work orders	
13	Any other document bidder likes to submit to prove its eligibility (5 Yrs. Experience)	

Signature Seal of the Vendor

PART-1

Technical bid

OEM Criteria

1. Made in India products are preferred - BIS & UL mandatory

2. OEM should have a registered office in India and local service centre in India

3. Product quoted should be UL, CE, FCC, BIS, STQC (CCTV) & Make in India should be class-1 certified and product wise certificate to be provided by OEM and FIPS certified Cyber essential and GDPR document to be provided.

4. Organization needs to be ISO 9001/27001/14001/45001 certified for environment and cyber security reasons.

5. OEM needs to have local service team with local branch and service centre so that bank can call anytime OEM for audit - OEM service centre details required.

8. Product quoted for camera, recorder, Cable, monitor should be of same Make for seamless integration and also should be able to integrate existing hardware with the bank.

9. OEM to provide local audit support anytime in region without any additional cost.

eXtended Video Recorder(XVR)-4, 8, 16, 32ch

This product shall be manufactured by a firm whose quality system is in compliance with the ISO-9001

Products quoted should be of international repute & from any of Top global OEM as per latest IHS report.

All systems and components must be in compliance with **FCC/CE/UL/RoHS** requirements.

The Offered Cameras, Recorder, VMS, Analytic shall be from the same OEM to ensure seamless integration & better support. However keeping in mind the future scalability, the offered VMS & Cameras should be ONVIF S compliant.

S.N	Parameter	Specification	Compliances
1	Compatibility	Analog cameras (mandatory), AHD, CVI, TVI (minimum one out of the three other than itself)	
2	Main Processor / Operating System	Embedded	
3	System Resources	Pentaplex function: recording, playback, live view, backup, remote access over IP network	
4	Recorder Control Options	Video Front panel, Virtual Keyboard (Both RS485 and IP), IP Network, USB mouse	
5	Analog / HD Camera Input	Minimum 4/8/16 Video channel; BNC	
6	IP Camera Input	04 Ch. HD + 2 IP Ch. (Total 6 IP Channel each upto 6 MP) 08 Ch. HD + 4 IP Ch. (Total 12 IP Channel each upto 6 MP) 16 Ch. HD + 8 IP Ch. (Total 24 IP Channel each upto 6 MP) 32 Ch. HD + 16 IP Ch. (Total 48 IP Channel each upto 6 MP)	
7	Recorder Video Output	Minimum 1 VGA, 1 HDMI	
8	Recorder Audio Input	Minimum 1 audio channel, BNC or RCA	
9	Recorder Audio Output	Minimum 1 audio channel, BNC or RCA	
10	Recorder Bidirectional Talk	1 channel RCA	
11	Display Screen Mode	1,4,8,9,16,32 ALL (Window) as per recorder channels	
12	Camera Scheduling	Supported (Continuous/Motion/Event based)	
13	On Screen Display	Date, Time , Camera Title, Video loss alert, motion detection alert, recording, camera lock alert, camera tampering, camera masking.	
14	Video/Audio Compression	H.265/H.264/G.711 respectively (One Channel) or higher	
15	Image Resolution	4 MP/1080p/720p/VGA/WD1/4CIF/CIF or better with selectable fps.	
16	Encoding Stream	4 MP lite/3 MP@15 fps; 1080p lite/720p lite/VGA/WD1/4CIF/CIF@25 fps (P)/30 fps (N) in all channels with selectable fps	
17	Video Encoding Bit Rate	Analog video: 32~2048Kb/s or higher, IP video: 32~4096Kb/s or higher	
18	Image Quality	6 levels (VBR/ CBR)	
19	Recording Mode	Manual, Schedule, Regular, Motion detection, Camera blank, Video loss. Stop Recording	
20	Recording Priority	Manual; Alarm; Motion Detection & Regular	
21	Recording Interval	Prerecord: 1sec to 30 sec., Post-record: 10sec ~ 5 minutes	
22	Alarm Input	Supported Minimum 4	
23	Relay Output	Supported Maximum 1	
24	Water Marking	Supported	
25	Playback Channel	Synchronous Playback 1,2,4 (for 4ch recorder); 1,2,4,8 (for 8ch recorder); 1,2,4,16 (for 16ch recorder)	

26	Recorded Data Search Mode	Video Time & Date, Exact search (with Date, Hour, Minute / Second accuracy), Motion Detection, Alarm	
27	Video Intelligence	Deep learning-based motion detection, perimeter protection (line crossing and intrusion detection), OR facial recognition. [Face picture comparison, face picture search (1-ch face picture comparison alarm for HD analog camera)]. Face comparison/recognition should support in either 4ch/8ch/16ch recorder	
28	Playback Options	Play, Digital zoom (any size), Pause, Rewind, Slow motion, shift to Next file, shift to Previous file, one click Previous camera, one click Next camera, Full screen mode, Replay, Backup selection, Fast forward, Shuffling	
29	Operation Over Network	Monitor, Playback, File download, Log information, System setting,	
30	Hard Drive Storage Option	For 4 Channel – 2 SATA , 8 Channel – 4 SATA , 16 Channel – 8 SATA. 32 Channel - 8 SATA Should support up to 10 TB per SATA port	
31	USB Interface	Minimum 2 Ports	
32	Power Supply	12 VDC /AC 100~240 V, 50/60 Hz	
33	Working Environment	All Indoor weather conditions	
34	Duplex type	Recorder should be able to playback recoded footage without having to stop recording	
35			
35	Certificate	UL/BIS,CE,FCC	
36	HDD quality	Surveillance Hard Disk: Sea Gate/Western Digital/Sky Hawk(2 TB / 4 TB/6 TB/8TB)	

4CH ATM recorder

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4CH ATM recorder (with inbuild Screen)			
Specifications			Compliance Yes/No
1	Operating system	Embedded RTOS / Linux / Windows	
2	-	-	
3	Analog / HD Camera Input	4 Channel recorder	
4	Video surveillance Hard disk	Surveillance Grade recorder HDD	
5	HDD Slots	2 SATA (upto 20 TB per slot)	
6	Video Input	4 Ch (Only for ATMs)	
7	Display speed	100 fps for 4 channel (Only for ATMs) (25 fps for each channel)	
8	Compression method	H.265 Pro+/H.265 Pro/H.265/H.264+/H.264	
9	Display split screen (Screen mode)	1,4 for 4 channel	
10	Encoding Resolution	4 MP lite@15 fps; 1080p lite/720p lite/VGA/WD1/4CIF/CIF@25 fps (P)/30 fps (N)	
11	Audio Input	1-ch, RCA (2.0 Vp-p, 1 KΩ)	
12	Audio Output	1-ch, RCA (Linear, 1 KΩ)	
13	Synchronous Playback	4 Ch	

14	IP Camera Input	2 Channel IP Camera in addition to HD channels; up to 6ch at the expense of HD channels	
15	Independent Recording setting Per channel	Continuous, motion detection sensor activated, flexible day /time daily Schedule.	
16	Monitoring	4 channel real time Monitoring. Single mode & 2x2 Mode Sequential switching mode Switching out monitoring	
17	Searching / Playback	Date & Time based 1 channel searching and all channel simultaneous searching Replay up to 25 fps in each channel	
18	Video Intelligence	Should support Motion detection, Intrusion Detection	
19	Smart ATM Features	1-ch human face mode and 1-ch panel mode for analog channel Panel Mode : Human entrance, operation timeout, sticking scrip, and installing scanner Human Face Mode : Normal human face, abnormal human face, multiple human faces, wearing sunglasses, and using mobile phone	
20	Back Up facility	In built & provision for External portable HDD/Pen drive/through USB port. Player software to play back recorded video should automatically be loaded on to the external back up media so that it can be played back on any PC directly.	
21	User Interface	On screen graphic User Interface(GUI)	
22	System recovery after power failure	Auto Re booting	
23	Operation for setting and searching	User friendly	
24	Multiple functionality	Should support pentaflex functions to perform all recorder functions at the same time, i.e., record, live view/playback, network (view remotely), administrative and backup. Client software for remote view shall be provided free of any charge if required.	
25	Compatibility	Should support all types of cameras	
26	Certifications	UL/BIS,CE,FCC	
27	System operation	Micro processor based Password operated	

HD Fixed Dome			
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All systems and components must be in compliance with FCC/CE/UL/RoHS requirements.			
The Offered Cameras, Recorder, VMS, Analytic shall be from the same OEM to ensure seamless integration & better support. However keeping in mind the future scalability, the offered VMS & Cameras should be ONVIF S compliant.			
S.No	Parameters	Specification	Compliance Yes/No
1	HD Technology	AHD, CVI, TVI, CVBS	
2	Image Sensor	2MP CMOS Sensor	
3	Signal System	PAL	
4	Effective Pixels	1920(H)x1080(V)) or better	
5	Mini. Illumination	Color: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with white light	
6	Video Output	1080P or higher @ 25 fps	
7	Display Resolution	1080P or higher @ 25 fps	

8	Recording Resolution	1080P or higher @ 25 fps	
9	Frame Rate	50Hz:1080p or higher @25fps	
10	SNR	≥52dB(AGC OFF)	
11	Sync System	Internal	
12	White Balance	Automatic	
13	Day & Night	24/7 Color Imaging	
14	Shutter	Automatic	
15	Slow Shutter	16X	
16	Auto Gain Control (AGC)	Automatic	
17	Noise Reduction (NR)	3DNR	
18	White Light	Up to 20 mtr	
19	Functions	Brightness, Sharpness, 3D DNR, Mirror, Smart light	
20	Lens	3.6mm, 2.8mm	
21	Field of view	2.8 mm: 119° x 101° x 54° (diagonal x horizontal x vertical) 3.6 mm: 100° x 84° x 45° (diagonal x horizontal x vertical)	
22	WDR	130 db WDR (DWDR not acceptable)	
23	Input Voltage	DC12V±10%	
24	IP Rating	IP67	
25	Operation Temp	-30° to +50° C	
26	Storage Humidity	90% or less	
27	Certification	UL/BIS,CE,FCC	
28	Image Enhancement	BLC, HLC Supported	
29	Built-in Microphone	Yes	
30	Material	Metal	

HD Fixed Dome

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3	Signal System	PAL	
4	Effective Pixels	1920(H)x1080(V)) or better	
5	Mini. Illumination	Color: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with white light	
6	Video Output	1080P or higher @ 25 fps	
7	Display Resolution	1080P or higher @ 25 fps	
8	Recording Resolution	1080P or higher @ 25 fps	
9	Frame Rate	50Hz:1080p or higher @25fps	
10	SNR	≥52dB(AGC OFF)	
11	Sync System	Internal	
12	White Balance	Automatic	
13	Day & Night	24/7 Color Imaging	
14	Shutter	Automatic	
15	Slow Shutter	16X	

16	Auto Gain Control (AGC)	Automatic	
17	Noise Reduction (NR)	3DNR	
18	White Light	Up to 30m	
19	Functions	Brightness, Sharpness, 3D DNR, Mirror, Smart light	
20	Lens	3.6mm, 2.8mm	
21	Field of view	2.8 mm: 119° x 101° x 54° (diagonal x horizontal x vertical) 3.6 mm: 100° x 84° x 45° (diagonal x horizontal x vertical)	
22	WDR	130 db WDR (DWDR not acceptable)	
23	Input Voltage	DC12V±10%	
24	IP Rating	IP67	
25	Operation Temp	-30° to +50° C	
26	Storage Humidity	90% or less	
27	Certification	UL/BIS,CE,FCC	
28	Image Enhancement	BLC, HLC Supported	
29	Built-in Microphone	Yes	

HD Varifocal Dome

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S.No	Parameters	Specification	Compliance Yes/No
1	HD Technology	AHD, CVI, TVI	
2	Image Sensor	1/3" 1080P CMOS Sensor /CCD or better	
3	Signal System	PAL	
4	Effective Pixels	1920(H)x1080(V)) or better	
5	Mini. Illumination	Mini. 0.01Lux@F1.2, AGC Illumination ON, 0 Lux with IR	
6	Video Output	1080P or higher @ 25 fps	
7	Display Resolution	1080P or higher @ 25 fps	
8	Recording Resolution	1080P or higher @ 25 fps	
9	Frame Rate	50Hz:720p or higher @25fps	
10	SNR	≥52dB(AGC OFF)	
12	Sync System	Internal	
13	White Balance	Automatic	
14	Day & Night	Automatic	
15	Shutter	Automatic	
16	Auto Gain Control (AGC)	Automatic	
17	Noise Reduction (NR)	3DNR	
18	IR Range	Up to 30m	
19	Lens	2.8-12mm (verifocal)	
20	WDR	120 db WDR (DWDR not acceptable)	
21	Input Voltage	DC12V±15%	
22	IP Rating	IP67 ,IK10	
23	Ingress Protection - Vandal Proof	IK10 (outer glass cover) - Turret Shape not acceptable	
24	Operation Temp	0° to +50° C	
25	Storage Humidity	90% or less	
26	Certification	UL/BIS,CE,FCC	

Specifications: 2 MP IR Fixed Turret Network Camera(IP Camera)

SI No	Camera	
1	Image Sensor	1/2.8" Progressive Scan CMOS
2	Min. Illumination	0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on
4	Shutter Speed	1/3 s to 1/100,000 s
5	Slow Shutter	Yes
6	Auto-Iris	No
7	Day & Night	IR Cut Filter
8	Digital Noise Reduction	3D DNR
9	WDR	120 dB
10	3-Axis Adjustment	Pan: 0°to 360°, tilt: 0°to 75°, rotate: 0°to 360°
	Lens	
11	Focal Length	3.6mm, 2.8mm
12	Aperture	F2.0
13	Focus	Fixed
14	FOV	2.8 mm: 119° x 101° x 54° (diagonal x horizontal x vertical) 3.6 mm: 100° x 84° x 45° (diagonal x horizontal x vertical)
15	Lens Mount	M12
	IR	
16	IR, white light Range	Up to 30m
17	Wavelength	850nm
	Compression Standard	
18	Video Compression	Main stream: H.265/H.264
		Sub-stream: H.265/H.264/MJPEG
		Third stream: H.265/H.264
19	H.264 Type	Baseline Profile/Main Profile/High Profile
20	H.264+	Main stream supports
	H.265 Type	Main Profile
	H.265+	Main stream supports
21	Video Bit Rate	32 Kbps to 8 Mbps
	Smart Feature-set	
23	Behavior Analysis	Line crossing detection, intrusion detection
24	Region of Interest	1 fixed region for main stream
	Image	
25	Max. Resolution	1920 × 1080
26	Main Stream	50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720)
		60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720)
27	Sub-Stream	50Hz: 25fps (640 × 480, 352 × 288, 320 × 240)
		60Hz: 30fps (640 × 480, 352 × 240, 320 × 240)
28	Third Stream	50Hz: 1fps (352 x 240, 320 x 240)
		60Hz: 1fps (352 x 240, 320 x 240)
29	Image Enhancement	BLC, 3D DNR, HLC
30	Image Settings	Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser
31	Day/Night Switch	Day/Night/Auto/Schedule
	Network	

32	Network Storage	Support Micro SD/SDHC/SDXC card slot (256 G), NAS (NFS, SMB/CIFS)
33	Alarm Trigger	Motion detection, video tampering, illegal login, HDD full, HDD error
34	Protocols	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP
35	General Function	Anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark, IP address filter
36	API	ONVIF (PROFILE S, PROFILE G), ISAPI
37	Simultaneous Live View	Up to 6 channels
38	User/Host	Up to 32 users, 3 levels: Administrator, Operator and User
49	Web Browser	IE10,11, Chrome 57.0+,, Firefox 52.0+
Interface		
50	Audio	1 built-in mic
51	Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port
52	On-board Storage	Built-in micro SD/SDHC/SDXC slot, up to 256 GB
General		
53	Operating Conditions	-30 °C to +60 °C (-22 °F to +140 °F), humidity 95% or less (non-condensing)
54	Power Supply	12 VDC ± 25%, PoE (802.3af, class 3)
55	Power Consumption and Current	Basic: 1.9 W (12 VDC); 2.5 W (PoE) Max. (ICR + H.265 + WDR + max. Illumination + intelligence on): 4.7 W (12 VDC); 5.6 W (PoE)
56	Protection Level	IP67
57	Material	Shell: plastic, camera body: metal

HD varifocal Bullet

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S.No	Parameters	Specification	Compliance Yes/No
1	HD Technology	AHD, CVI, TVI	
2	Image Sensor	1/3" 1080P CMOS Sensor /CCD or better	
3	Signal System	PAL	
4	Effective Pixels	1920(H)x1080(V)) or better	
5	Mini. Illumination	Mini. 0.01Lux@F1.2, AGC Illumination ON, 0 Lux with IR	
6	Video Output	1080P or higher @ 25 fps	
7	Display Resolution	1080P or higher @ 25 fps	
8	Recording Resolution	1080P or higher @ 25 fps	
9	Frame Rate	50Hz:720p or higher @25fps	
10	SNR	≥52dB(AGC OFF)	
12	Sync System	Internal	
13	White Balance	Automatic	
14	Day & Night	Automatic	
15	Shutter	Automatic	
16	Auto Gain Control (AGC)	Automatic	
17	Noise Reduction (NR)	3DNR	
18	IR Range	Up to 30m	
19	Lens	2.8-12mm (verifocal)	
20	WDR	120 db WDR (DWDR not acceptable)	
21	Input Voltage	DC12V±30%	
22	IP Rating	IP67	
23	Operation Temp	0° to +50° C	
24	Storage Humidity	90% or less	
25	Certification	UL/BIS,CE,FCC	

Pinhole Camera

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Sr No	Feature	specification	Compliance Yes/No
1	Image Sensor	1/3" CMOS /CCD	
2	Effective pixels	1920(H)x1080(V))	

3	Resolution	1920(H)x1080(V))	
5		Color: 0.004LuxLux/F2.4 Black & White: 0.0004 Lux/F2.4	
6	S/N ratio	52 dB	
7	Electronic shutter	1/3s–1/100000s	
8	Lens	3.7mm Pin Hole (2.8mm optional)	
9	WDR	120 db WDR (DWDR not acceptable)	
10	BLC	On/Off (Auto)	
11	Motion detection	Yes	
12	White balance	Supported	
13	AGC	Supported	
14	Day & Night	Color/B/W/Auto level adjust	
15	Communication Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port	
16	Power supply	DC12V	
17	Power consumption	5 Watts max	
18	Certification	UL/BIS,CE,FCC	
19	Perimeter Protection	Line crossing, intrusion. Support alarm triggering by specified target types (human and vehicle)	
20	Built-in Microphone	Supported	
21	Built-in Speaker	Supported	
22	HLC	Supported	
23	IR Range	Up to 10 m	

VMS Software Specifications

All software and licenses for end to end IP based video surveillance system
Proposed CCTV system shall be based on Non Proprietary open standard based integrated system with network centric functionality complied to ONVIF profile-S and management architecture, aimed at providing high-speed manual/automati
Failure of one camera shall not affect other cameras.
The video management system shall be an enterprise class IP enabled fully distributed solution, designed for limitless multi-site and multiple server installations requiring 24/7 surveillance with support for devices from different location.
The video management system shall allow a minimum 20,000 number of cameras, recording servers and clients to be connected to management server across multiple sites.
Single server should connect upto 50 ANPR cameras
The video management system shall include a distributed architecture, allowing clients on the host system with the user rights to view video sources belonging to multiple independent video management systems simultaneously.
The video management system shall contain a management server that shall be the central manager of the system and control recording servers, cameras, devices and users.
The video management system shall incorporate a fully integrated video-sharing functionality for distributed viewing of video from any camera in the system on any computer with the viewing client.
The video management system shall support encryption of video for export purposes.
Cameras, which shall show a minimum list of the following items. 1) Camera status (connected or disconnected)
An individual camera is recording or not
The name of the camera, the hardware device and the IP address of the hardware device
The recording server, the camera is connected
What storage the camera is using
Live video format, for example H.264 or M-JPEG
Recording video format, for example H.264 or M-JPEG
Viewing Client

The viewing client shall enable operators to connect to the management server for initial authorization. Up on authorization, the viewing client shall be able to connect to the recording server(s), for access to live and record
The Client operator shall be able to drag and drop a camera from a tree of available cameras or a camera sequence into any video tile for live viewing.
The viewing client shall allow the user to be able to:
View live video from cameras;
Playback recordings from cameras with a selection of advanced navigation controls, including an intuitive time line browser.
Switch between a number of views, each able to display videos from 1 up to 16 cameras from multiple servers at a time. The system shall make it possible to create views based on different layouts optimized for 4:3 and 16:9 displ
Access views of cameras on any PC with a viewing client installed.
Use multiple screens as well as floating windows for displaying different views simultaneously.
Quickly replace one or more views of cameras with other cameras.
View images from several cameras in sequence in a single camera position in a designated carousel position.
View video from selected cameras in greater magnification and/or higher quality in a designated special view position.
Control PTZ cameras.
Use digital zoom on live as well as recorded video.
Get a quick overview of sequences with detected motion.
Quickly search for motion in selected areas of a video recording.
Maps
The viewing client shall include a built-in map function which shall provide an intuitive overview of the system and shall offer integrated access to all system components.
The map function shall be able to use standard graphical file formats.
It shall be possible to use any number of layered maps and to easily drag- and-drop and point-and-click icons representing cameras.
The viewing client shall support a map function which shall support instant camera preview when moving the mouse pointer over a specific camera.
The map function shall support real-time status monitoring indication from all system components like camera, recording server, storage etc.
The map function shall support graphical at-the-glance visualization of the system status through color coding. Graphical tool illustrating health status of various equipment on a single screen, such as graphical representati
Storage
VMS should Support edge storage and central storage.
VMS should support Central storage: Extend storage via iSCSI.
Server disk configuration for picture storage involving face detection and recognition, alarms, and object detection
Create record plan by time template: All day template, weekday template, weekend template and custom template
Back up the video by schedule from the edge storage, like EVS, NVR, DVR, etc.
Disk quota: Group the disks, and cameras can be allocated to different disk groups
Vehicle Restricted List Management
Set start time and end time for vehicle restricted list
Arm and disarm vehicle restricted list.
Import and export vehicle restricted list.
Parking Management
Overview of entrance and exit information: Number of parking spaces and remaining parking spaces, traffic statistics, parking turnover, parking utilization rates
Support dual-camera capture for higher recognition rate.
Edit parking-lot, includes total and available spaces, parking name etc
Support configuration of barrier control rules, and support configuration of barrier control rules for zero-space-left cases
VMS should supportsupport searching for vehicle records, on-site vehicles, and ANPR details
VMS should support traffic Violation & search function by time, vehicle number, and traffic violation information type.
Support querying for data of passing-by vehicles by section, time period, plate number, plate color, average speed, and type
Supports Violation Penalty
Violators can be penalized.
Supports printing traffic tickets

Violation records can be reviewed.
Violation records can be searched for, including ANPR captured violations, and road section and traffic restriction violations.
Gives Overview of traffic flow
Supports searching for the traffic flow at intersections and road sections from specific periods.
Stand Alone Viewing Client
The standalone viewing client shall make it possible to view exported video.
The standalone viewing client shall run from an. exe file, and no installation of software shall be required in order to view exported sources.
Mobile Viewing Client
It shall be possible to access and view cameras and views on a Smart phone or a tablet (a mobile device). Mobile Client should have live and Playback functionality. It must support android, windows, iOS platform

16 & 32 Channel NVR with 8 SATA Port			
S. No.	Features	Description	Compliance (Yes/No)
1	Main Processor	Industrial Grade Processor	
2	Operating System	Embedded LINUX	
3	SATA Ports	8 SATA ports for 16 / 32 channel NVR, Each SATA port should support 16TB HDD	
4	Interface	1VGA, 1HDMI	
5	Video Output	VGA:1920 × 1080, 1280 × 1024, 1280 × 720 HDMI:3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720	
6	Resolution	16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF	
7	Multi-screen Mode (Display Split Screen)	1/4/8/9/16	
8	Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips	
9	Video Detection	Motion Detection, MD Zones: 396 (22 X 18), Video Loss and Tampering, Scene Change Detection	
10	Alarm input	16 Ports	
11	Alarm output	4 Ports	
12	Sync Playback	1/4/9/16	
13	Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)	
14	Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom	
15	Backup Mode	USB Device/Network/Internal SATA burner/e-SATA Device	
16	Internal HDD	All SATA ports should support 16TB	
17	USB	3(2 USB 2.0 port, 1 USB 3.0 ports)	
18	RS232	1 Port, for PC Communication and keyboard	
19	RS485	1 Port, for PTZ Control	
20	IP Camera Input	16	
21	Audio Compression	G.711a; G.711u; PCM; G726	
22	Two-way Talk	1 Channel Input, 1 Channel Output	
23	Compression	High Efficiency Video Coding (HEVC), H.265+ or more	
24	Resolution	1080P or more at 25 FPS	
25	Frames per Second	25 FPS	
26	Record Rate	256 Mbps Incoming	
27	Record Mode	Manual, Schedule (Regular, Continuous), MD, Alarm, Stop	
28	Record Interval	1-120 min (default: 60 min), Pre-record: 1-30 sec, Post record: 10-300 sec	
29	Interface	2 RJ-45 port (10/100/1000 Mbps)	

30	Network Function	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UDP; SNMP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; PPPoE; FTP; DDNS; Alarm Server; IP Search, Multicast; P2P; Auto Registration	
31	Interoperability	ONVIF (Profile T; Profile S; Profile G), CGI Conformant	
32	Certifications	UL/ FCC, CE and BIS approved	

3+1 Coaxial and power cable

Coaxial Cable		
Conductor	Material	Bare copper
	Wire Gauge	26AWG
	Diameter	0.41±0.01mm
Insulation	Material	FPE
	Diameter	2.0±0.1mm
Tape	Material	Copper foil
Braid	Material	Copper clad aluminum magnesium
	Braiding Standard	5*16*0.12mm ±0.008mm
	Braiding Density	≥80%
Jacket	Material	PVC
Impedance		75ohms
Power Cable		
Conductor	Material	Bare copper
	Quantity	3
	Diameter	11*0.16±0.008mm
Insulation	Material	SR-PVC
	Diameter	1.2±0.1mm
Jacket	Material	PVC
Make & Type	Acceptable type	ISI Marked (IS-694, 1990) Make – Finolex, Polycab or similar quality,

19" HD LCD Monitor

S.No	Category	Parameters	Specification	Compliance Yes/No
1	Monitor	Backlight	LED Backlight	
2		Screen Size	19.5 inch	
3		Pixel Pitch	0.300mm×0.300mm	
4		Max Resolution	1600×900	
5		Brightness	200cd/m2	
6		Contrast	1000:1	
7		Response Time	5ms	
8		Color	16.7M	
9		Active Area	409.8mm × 230.4mm	
10		Viewing Angle	Horizontal 90°, Vertical 80°	
11	Interface	VGA Input	1	
		HDMI Input	1	
12	General	VESA	75 mm × 75 mm	-

CAT 6 Cable

S. No.	Parameter	Minimum Specifications
1	Type	U/UTP 4Pairs cable-category 6- PVC Sheath
2	Size	23 AWG
3	Material	Solid Bare Copper
4	Test Standard	ISO/IEC11801, TIA-568-C.2
5	Ambient Temperature	-20°C - 75°C
6	Insulation Material	Polyethylene (HDPE)
7	Sheath material	PVC Polyvinyl chloride
8	Tensile Strength before aging	>13.5
9	Aging Period	100 Deg C x 24h x 10d
10	Colour Chart	1 White- Blue /Blue
		2 White-Orange /Orange
		3 White-Green /Green
		4 White- Brown /Brown

12. Technical specification of HMS

VMS Software Specifications	Compliances	Remark
All software and licenses for end to end IP based video surveillance system		
Proposed CCTV system shall be based on Non Proprietary open standard based integrated system with network centric functionality complied to ONVIF profile-S and management architecture, aimed at providing high-speed manual/automatic		
Failure of one camera shall not affect other cameras.		
The video management system shall be an enterprise class IP enabled fully distributed solution, designed for limitless multi-site and multiple server installations requiring 24/7 surveillance with support for devices from different location.		
The video management system shall allow a minimum 20,000 number of cameras, recording servers and clients to be connected to management server across multiple sites.		
The video management system shall include a distributed architecture, allowing clients on the host system with the user rights to view video sources belonging to multiple independent video management systems simultaneously.		
The video management system shall contain a management server that shall be the central manager of the system and control recording servers, cameras, devices and users.		
The video management system shall incorporate a fully integrated video-sharing functionality for distributed viewing of video from any camera in the system on any computer with the viewing client.		
The video management system shall support encryption of video for export purposes.		
Cameras, which shall show a minimum list of the following items. 1) Camera status (connected or disconnected)		
An individual camera is recording or not		
The name of the camera, the hardware device and the IP address of the hardware device		
The recording server, the camera is connected		
What storage the camera is using		
Live video format, for example H.265, H.264 or M-JPEG		
Recording video format, for example H.265, H.264 or M-JPEG		
Viewing Client		
The viewing client shall enable operators to connect to the management server for initial authorization. Up on authorization, the viewing client shall be able to connect to the recording server(s), for access to live and record		
The Client operator shall be able to drag and drop a camera from a tree of available cameras or a camera sequence into any video tile for live viewing.		
The viewing client shall allow the user to be able to:		
View live video from cameras;		
Playback recordings from cameras with a selection of advanced navigation controls, including an intuitive time line browser.		
Switch between a number of views, each able to display videos from 1 up to 16 cameras from multiple servers at a time. The system shall make it possible to create views based on different layouts optimized for 4:3 and 16:9 displ		
Access views of cameras on any PC with a viewing client installed.		
Use multiple screens as well as floating windows for displaying different views simultaneously.		
Quickly replace one or more views of cameras with other cameras.		
View images from several cameras in sequence in a single camera position in a designated carousel position.		

View video from selected cameras in greater magnification and/or higher quality in a designated special view position.		
Control PTZ cameras.		
Use digital zoom on live as well as recorded video.		
Get a quick overview of sequences with detected motion.		
Quickly search for motion in selected areas of a video recording.		
Support Health monitoring system with Dashboard		
View Device status , HDD status, Channel Status		
Fault alert , Alarm Alert		
Should support Report generation and send over mail automatically		
Should show number of days of recording for each channel in report		

General Requirements (For new items);	
Warranty for one year	
Post warranty, AMC for next 5 years (post warranty)	
Support for retrieval of images/data for dispute resolution at no additional cost, only charges will pay of data storage pan drive, disc, hard disc etc.	
Necessary software for retrieval of Data from the DVR Hard Disc	
Annual Maintenance of our Old Systems	

Signature Seal of the Vendor

PART-2

Financial bid

FOR CCTV SYSTEMS:

S.No	ITEM	QTY	RATES (IN RS.)	Model no	Make
1	DVR 4 Channel with Inbuilt Monitor for ATM	1 Nos.			
2	XVR 4 Channel	1 Nos.			
3	XVR 8 Channel	1 Nos.			
4	XVR 16 Channel	1 Nos.			
5	Hard disk 4TB	1 Nos.			
6	Hard disk 6TB	1 Nos.			
7	Hard disk 8TB	1 Nos.			
8	2 MP HD FIXED DOME CAMERA	1 Nos.			
9	2 MP HD FIXED BULLET CAMERA	1 Nos.			
10	2 MP HD VERIFOACAL DOME CAMERA	1 Nos.			
11	2 MP HD FIXED BULLET CAMERA	1 Nos.			
12	2 MP PIN HOLE CAMERA	1 Nos.			
13	16 CH NVR	1 Nos.			
14	32 CH NVR	1 Nos.			
15	POWER SUPPLY	1 Nos.			
16	INSTALLATION	PER SYSTEM			
17	Rack 4U, 6U	1 Nos.			
18	Monitor 19"	1 Nos.			
19	CAT 6 CABLE	1 MTR			
20	CABLE (IN Mtr) including conduit	1 MTR			
	Total Cost				
21	Our Old System Comprehensive Annual Maintenance Charges (AMC) with establishing of bank E-surveillance System through bank's network	1 Nos.		Yearly Per System	Dahuva, Hikvision & other installed brand
22	Total Cost				

RATES (2 MP IP Camera);

S. No	ITEM	QTY	RATES (IN RS.)	Model No.	Make
1.	IP CAMERA	1 Nos.			
2.	SD CARD (64GB)	1 Nos.			
3	SD CARD (128GB)	1 Nos.			
4	SD CARD (256 GB)	1 Nos.			
5.	NETWORKING CABLE including conduit	1 MTR			
6.	POWER SUPPLY	1 Nos.			
7.	INSTALLATION	Per System			
	Total Cost				

Signature Seal of the Vendor

Technical Specification of Fire cum Burglary Alarm system

(PART-1)

S.no	Security alarm system	Specifications	Compliance
1.	Technical Specification for 8 ZONE Security Alarm System		
a	Micro-controller Based Control Panel with Inbuilt LCD indication	Integrated Auto-dialer Hybrid (PSTN AND GSM based with auto check indication by LED and SMS, tampered proof/wire cut trigger/short circuit/provision of wireless zone and inbuilt LAN port for future CMS compatibility and supports SIA and DC protocol	
b	Communication to CMS and Health monitoring Software support	8 Zone alarm metal Body Panel with Inbuilt Lan Port and 4G GSM inbuilt support for DUAL path network to communicate with Command centre and can be brought to network through LAN or 4 for health Monitoring and remote control from CMS	
c	External Body Features	(i) Protected from dust, water, vermin etc. (ii) Acrylo nitride Butadiene Styrene (ABS)/18SWG MSCabinet, epoxy Coated. (iii) Locking of panel by Allen Head screw on sides/internal lock (iv) Bracket mounted (v) Provision for battery compartment inside the panel	
d	Micro-controller Based with LCD indication & push button	i) Dedicated switch for health check and display of each item tatus on LCD ii) To show the status/health of the system (Data Logger System) iii) The panel should indicate the health of the system (Fault, power failure and battery status indicator).	
e	Wireless Module	Provision for Cordless Switch to activate the alarm system	
f	Real Time Clock	Show real time	
g	LCD display	Indication in the event of any zone getting faulty or switch getting isolated and the system to remain functional.	
h	Automatic(arming & disarming)	i) Change from day to night mode & Vice-versa as per the real time clock(programmable) ii) Optional Day and Night reset key iii) Sounding gets automatically put off after a period of 3 to 6 minutes (programmable with th help of keypad) and thereafter the entire system should get reset.	
i		Programmable 0-90 Sec time delay to activate	
j		Hooters for panic switches and entry and exit time delay from 0 to 90 second PIR	
k		Support two external hooters besides the internal one.	
l		Indication of hooter/siren health status through	

		LCD display.	
	Hooters	(i)Min 90 dB for internal and 110 dB for External (CE&UL certification) (ii)4 wired with tamper loop (iii) ABS body (iv) Weatherproof (v)Wall mounting facility (vi) Operates on 12VDC (vii) Emergency panics witch with hooter	
	Power Supply	UPS supply (Mains) and self-battery backup (12V7AH)with re charging facility	
	Compatibility	PIR Sensors, Magnetic Sensors, Vibration Sensors, Light Sensors, multi-function sensors and any wireless Sensors.	
	Auto Reset after activation	03 to 05 minutes(Day & Night Mode)	
	Wire cut trigger	Activate the alarm system for 3 minutes thereafter the affected switch/zone to get isolated/bypassed with display/blinking of LCD panel indicating the defect.	
	ON/OFF function	Through Key pad and optional reset key	
2.	In-built Auto Dialer with 4/5 G Support for Call & SMS		
	Compatibility	Hybrid GSM AND PSTN connection of any service Provider.	
	Storage and dialing	(i)Provision for storage and dialing minimum five (05) Telephone/mobile numbers with recording message upto 20 Seconds duration	
	Re-dialing	(i) Message should be repeated at least twice before dialing the 2nd number (ii) If number not responded, facility to re-dial the number after completing the cycle	
	Display	Provide signal strength and status indication on display screen	
3.	Dual Tech PIR Sensor		
		Dual Technology (IR & Microwave) Detection coverage horizontal angle 110degrees Detection Range: Uptominimum10Mtrs Sensitivity range: Low/ Med/High Wall mounting facility. Pet/rodents immunity. Provision for calibration to adapt changes in ambient temperature due to various seasons.	
4	Wiring	2 Core and 4 Core Multistrand.75sq. mm/1sq mm, flexible, ISI marked. PVC insulated copper wire for connection of panic switches and Other sensors respectively Rigid PVC conduit 2mm ISI mark. Fixed with metal saddling at every 02 ft distance.	
5	Magnetic Sensor(For Door)	ABS body 4wiredwithtamperloop(NC circuit) OperatingGap:5cm	
		Capable of vibration detection, metal cutting and glass breaking (b)ABS body (c)Sensitivity range: Low/ Med/High	
6	Magnetic Sensor(For Shutter)	(a)Metallic body (b)4 wired with tamper loop(NC circuit)	

		(c)Operating Gap:5cm	
7.	Multi-Function Sensor	Capable of vibration detection, metal cutting and glass breaking ABS body Sensitivity range: Low/ Med/High	
8	Panic Switch	Sturdy built Micro Switch Technology In-built tamper Switch	
9	Microwave sensor	Detection through doors, panes of glass, thin walls. Detectionangle:360/180 degree and detection length: 12 meters Motion detection speed: 0.6-1.5m/s Transmission power: greater than 0.2 mV Identify :Day & Night	
10	Sounder & Strobe	Outdoor battery backup siren with flash light Double Housing Continuous frequency modulated sound. Tamper protection in 3 ways - Screw or cover opening or tearing housing from the wall Siren period can set as follow trigger 3min cut off Trigger input to activate only the flash light Alarm by main power failure Protection against totally battery discharge Plug terminal for easy installation Environmental immunity Weatherproof Metal cover Inside for Extra protection Available in White colour High power 128db Positive/ Negative Siren Trigger Provision to Fit Battery Inside Sounder ABS Housing IP55 Operating Voltage:: 13.8VDC to 14.2VDC Rated Current: 1.6A	
11	Photoelectric Smoke Detector	Advanced photoelectric technology Low profile design Low current draw Backward compatible with Series 100 detector range of bases Wide operating voltage 8 to 30VDC Bi-colour LED detector status indicator	
12	Response Indicator	Compatible with all conventional fire alarm control panel Dual LED lamp ABS plastic Indoor use only Available in white colour	
13	Manual call point	ABS Housing Available in Red colour Un-resettable Rated Voltage : 12VDC / 24VDC Rated Current : 220mA	

Financial Bid of Fire cum Burglary Alarm system (PART-2)

Sr.	Product details	QTY	Make	Model	Rs	Tax	Total
1	Integrated Auto-dialer Hybrid (PSTN AND GSM based with auto check indication by LED and SMS, tampered proof/wire cut trigger/short circuit/provision of wireless zone and inbuilt LAN port for future CMS compatibility and supports SIA and DC protocol	1	AMC/Texecom/Honeywell /Bosch Securico				
	8 Zone alarm metal Body Panel with Inbuilt Lan Port and 4G GSM inbuilt support for DUAL path network to communicate with Command centre and can be brought to network through LAN or 4 for health Monitoring and remote control from CMS						
	(i) Protected from dust, water, vermin etc. (ii) Acrylonitrile Butadiene Styrene (ABS)/18SWG MSCabinet, epoxy Coated. (iii) Locking of panel by Allen Head screw on sides/internal lock (iv) Bracket mounted (v) Provision for battery compartment inside the panel						
	i) Dedicated switch for health check and display of each item status on LCD ii) To show the status/health of the system (Data Logger System) iii) The panel should indicate the health of the system (Fault, power failure and battery status indicator).						
	i) Change from day to night mode & Vice-versa as per the real time clock (programmable) ii) Optional Day and Night reset key iii) Sounding gets automatically put off after a period of 3 to 6 minutes (programmable with the help of keypad) and thereafter						

	the entire system should get reset. Programmable 0-90 Sec time delay to activate Hooters for panic switches and entry and exit time delay from 0 to 90 second PIR						
2	Hybrid GSM AND PSTN connection of any service Provider. (i) Provision for storage and dialing minimum five (05) Telephone/mobile numbers with recording message upto 20 Seconds duration (i) Message should be repeated at least twice before dialing the 2nd number (ii) If number not responded, facility to re-dial the number after completing the cycle Provide signal strength and status indication on display screen	1	AMC/Texecom/Honeywell /Bosch Securico				
3	Dual Technology (IR & Microwave) Detection coverage horizontal angle 110degrees Detection Range: Uptominimum10Mtrs Sensitivity range: Low/ Med/High Wall mounting facility. Pet/rodents immunity. Provision for calibration to adapt changes in ambient temperature due to various seasons	1	AMC/Texecom/Honeywell /Bosch Securico				
4	2 Core and 4 Core Multistrand.75sq. mm/1sq mm, flexible, ISI marked. PVC insulated copper wire for connection of panic switches and Other sensors respectively Rigid PVC conduit 2mm ISI mark.Fixed with metal saddling at every 02 ft distance.	1	AMC/Texecom/Honeywell /Bosch Securico				
5	Magnetic Sensor(For Door)	1	AMC/Texecom/Honeywell /Bosch Securico				

6	Magnetic Sensor(For Shutter)	1	AMC/Texecom/Honeywell /Bosch Securico				
7	Multi-Function Sensor	1	AMC/Texecom/Honeywell /Bosch Securico				
8	Panic Switch	1	AMC/Texecom/Honeywell /Bosch Securico				
9	Microwave sensor	1	AMC/Texecom/Honeywell /Bosch Securico				
10	Sounder & Strobe	1	AMC/Texecom/Honeywell /Bosch Securico				
11	Conventional Heat Detector The Heat detector should be a 2- wire detector with ,Wide operating voltage from 8 to 30VDC.UL/EN/LPCP	1	AMC/Texecom/Honeywell /Bosch Securico				
12	Manual Call Point	1	AMC/Texecom/Honeywell /Bosch Securico				
13	Battery 12V,7AH	1	Exide				
14	Wiring 2 Core & 4 Core per Meter (0.5 sqmm)	1	Polycab				
15	2X1.5 sqmm aromoued cable per meter	1	Polycab				
16	PVC Conduit (Mtr.	1					
17	Installation Charge	1					
18	GST: 18% Extra as Applicable.						
	Total Cost						
19	Our Old System Annual Maintenance Charges (Comprehensive AMC) i.e. Securico, AMC & parallel brand with proper connecting auto dialer system	Per System	Yearly				

