



**OEM Criteria**

1. All products quoted and supplied to UCO Bank should be manufactured in India by the OEM directly not by third party and not from any other country. - document with local BIS to be presented, and OEM name or India company name and India factory address registered in name of OEM to be presented as proof.
2. OEM should have a registered office in India and local service center in all the State Capitals from last 05 years atleast.
3. Product quoted should be UL, CE, FCC, Local BIS 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 center so that bank can call anytime OEM for audit - OEM service center details required.
6. OEM should have 500+ employees directly in thier payroll. - document proof to be provided.
7. OEM should be directly present in the state and not via any system integrator who is empanelled with the bank. OEM Documents for local presence to be submitted independently.
8. Product quoted for camera, NVR/XVR, 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.
10. OEM to be registered with government body under National skill development or Manufacturing license of India in name of OEM so that bank can give preference to brands that are being manufactured in India.

Signature & Seal of the Vendor



## APPENDIX- 'E' -Detail Technical specifications of CCTV and Alarm System

### 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

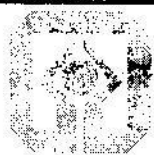
Products quoted should be of international reput & from any of Top global OEM as per latest IHS report .

All systems and components must be in compliance with the relevant standards 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	Compliance Yes/No
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)	

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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	Certificate	UL/BIS,CE,FCC
36	HDD quality	Surveillance Hard Disk: Sea Gate/Western Digital/Sky Hawk( 2 TB / 4 TB/6 TB/8TB)



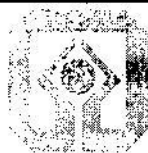
#### 4CH ATM recorder

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 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.

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 <b>Panel Mode :</b> Human entrance, operation timeout, sticking scrip, and installing scanner <b>Human Face Mode :</b> 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

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, FCC 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)	

*[Signature]*



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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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/FemS 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 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	

*(Signature)*



27	Certification	UL/BIS,CE,FCC	
28	Image Enhancement	BLC, HLC Supported	
29	Built-in Microphone	Yes	

### HD Varifocal Dome

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

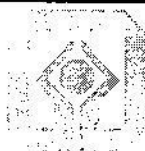
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All systems and components must be in compliance with FCC/CE/UL/RoHS requirements.

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	
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	

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

Sl No	Camera	Compliance Yes/No
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 x 1080
	Main Stream	50Hz: 25fps (1920 x 1080, 1280 x 960, 1280 x 720) 60Hz: 30fps (1920 x 1080, 1280 x 960, 1280 x 720)
26	Sub-Stream	50Hz: 25fps (640 x 480, 352 x 288, 320 x 240) 60Hz: 30fps (640 x 480, 352 x 240, 320 x 240)
27		



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 $\pm$ 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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All systems and components must be in compliance with FCC/CE/DL/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	
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

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

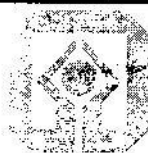
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All systems and components must be in compliance with FCC,CE,UL/ROHS requirements.

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.

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/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.
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 support 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			Compliance Yes/No
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	Compliance Yes/No
1	Type	U/UTP 4Pairs cable-category 6-PVC Sheath	
2	Size	23 AWG	
3	Material	Solid Bare Copper	
4	Test Standard	ISO/IEC 11801, TIA-568-C.2	
5	Ambient Temperature	-20°C - 75°C	
6	Insulation Material	Polyethylene (HDPE)	

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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	

**Technical Specification & compliance for vendor**

Sl. No.	Technical Specification Compliance for Fire and Electronic intruder Alarm System (Component and Description of Specification)	Compliance Yes/No
	<b>CONTROL PANEL</b>	Yes/No
1	LCD based minimum 12+1 fully programmable zone control panel with built in GSM speech dialer with automatic arming and disarming with remote access through telephone	Yes/No
2	Microcontroller based	Yes/No
3	Minimum 12+1 zones	Yes/No
4	Inbuilt GSM based speech and SMS dial up	Yes/No
5	Minimum 12 zones programmable as delay, immediate, panic or fire	Yes/No
6	One tamper zone	Yes/No
7	Separate remote key pad with 12X4 LCD display or more	Yes/No
8	Separate zone for fire detection and provision for connection of fire alarm system	Yes/No
9	Separate main control station for connection terminals and power supply units	Yes/No
10	Automatic arming and disarming facility	Yes/No
11	Can be operated through mobile and telephone line	Yes/No
12	Electrical devises can also be switched on or off through remote key pad	Yes/No
13	Built in battery backup	Yes/No
14	Zone omitting facility	Yes/No
15	Silent arming and night mode arming	Yes/No
16	Intrusion lock with time and date	Yes/No
17	Power failure indication	Yes/No
18	Blown fuse indication on LCD display on LED blinking on panel	Yes/No
19	Multiple sounder output	Yes/No
20	Distinct interrupted sounder output for fire alarm	Yes/No
21	Battery strength display with audio indication in case of low battery	Yes/No
22	GSM signal strength display	Yes/No





23	Walk test mode	Yes/No
24	Individual zone status is indicated in display	Yes/No
25	Independent entry delay time 2 to 240 sec	Yes/No
26	Independent exit delay time 2 to 240 sec	Yes/No
27	Sounder time 2 to 20 minutes and multiple sounder outputs	Yes/No
28	Speaker wire cut detection for all sensors and hooters and speakers	Yes/No
29	Support combination of hooters and speakers	Yes/No
30	Battery backup for 36 hours	Yes/No
31	Automatic switch off to battery in case of AC power failure	Yes/No
32	Automatic battery charging once the AC power is restored	Yes/No
33	ERTL certified.	Yes/No
SI. No	<b><u>SMOKE SENSOR &amp; HEAT SENSOR</u></b>	Yes/No
1	Automatic Drift compensation	Yes/No
2	Dust tolerant chamber provides optimum detection performance and minimal nuisance alarm between maintenance visit	Yes/No
3	Multifunction handheld remote programming and test tool	Yes/No
4	Sensitivity remotely programmable	Yes/No
5	Digital addressing capability	Yes/No
6	Remotely implemented advance maintenance features	Yes/No
	1. Read and write last maintenance date	Yes/No
	2. Read chamber contamination level	Yes/No
	3. Read thermal element value alarm test	Yes/No
7	Selectable blink/no blink LED option via hand held tool	Yes/No
8	Photoelectric multi-criteria photo-thermal with 58 degree C and 78degree C fixed and rate of raise thermal detector	Yes/No
9	8 to 30 VDC operating range enable operation in both fire and security system	Yes/No
10	-30 to +70 degree C operating temperature range	Yes/No
11	Multi-functional alarm – normal bio colour LED indicator	Yes/No
12	EN 54 certified	Yes/No
13	Make -	Yes/No

SI. No	<b><u>AUTOMATIC TELEPHONE DIALER &amp; BUILT IN VOICE &amp; SMS GSM DIALER</u></b>	Yes/No
1	GSM speech & SMS dialer	Yes/No
2	Microcontroller base	Yes/No
3	2 speech / voice messages	Yes/No
4	Separate intuition message	Yes/No
5	Minimum 10 programmable phone numbers upto 12 digits for intuition and fire message	Yes/No
6	20 sec recording time for each message	Yes/No
7	Alarm SMS with alarm type, zone number with time and date	Yes/No



	information	
8	System status SMS for arm and disarm	Yes/No
9	Power status SMS for AC power on and off, low battery	Yes/No
10	User editable name and address for alarm SMS	Yes/No
11	Message playback, telephone no editing facility, long volatile memory	Yes/No
12	Retention of programmed data in case of power failure	Yes/No
13	Highest priority for condition dialing and silent alarming	Yes/No

SL NO	ELECTRICAL	Yes/No
1	Quiescent current: 30 mA Max.	Yes/No
2	Quiescent current with backlit LCD: 90 mA Max.	Yes/No
3	MAIN CONTROL STATION WITH ONE REMOTE KEY PAD	Yes/No
4	Quiescent current: 300 mA	Yes/No
5	Quiescent current with backlit LCD: 360 mA	Yes/No
6	Current with dialing: 530 mA Max.	Yes/No
7	Maximum sounder 1 current output : 1A	Yes/No
8	Maximum sounder 2 current output : 1A	Yes/No
9	Remote key pads: Up to three	Yes/No
10	Non-volatile Memory: Programming and Log	Yes/No
11	Zone response time: <500ms	Yes/No
12	Zone Loop Resistance: <5k ohm for NORMALLY CLOSED	Yes/No
13	Mains supply Voltage: 220+10%-15% 50Hz	Yes/No
14	Total current Output: 2A at 220V AC or 4A at 220V AC	Yes/No
15	Battery Voltage: 12V DC	Yes/No
16	Battery type: SMF Rechargeable	Yes/No
17	Battery Recharge Voltage: 13.8V +/-0.2V DC	Yes/No
18	ENVIRONMENTAL	Yes/No
19	Operating Temperature: 0C to 45C	Yes/No
20	Storage Temperature: -20C to 60C	Yes/No
21	Maximum humidity: 95% non-condensing	Yes/No
Sl No.	MAGNETIC CONTACT SENSOR	Yes/No
1	Operating Gap: 15MM min	Yes/No
2	Contact Rating: 10W, 12/24VDC, 0.5A	Yes/No
3	Contact O/P: Normally Closed	Yes/No
4	4 wire temper loops	Yes/No



SI No.	PIR SENSOR	Yes/No
1	Dual Element Pyroelectric sensor	Yes/No
2	Latest Technology Digital Signal Processor (DSP)	Yes/No
3	Pet Immunity up to 25 kg.	Yes/No
4	Detection Range 15m	Yes/No
5	Detection angle 110°	Yes/No
6	Sealed optics	Yes/No
7	Excellent RFI and EMI Immunity	Yes/No
8	Selectable Pulse Count	Yes/No
9	Walk Test	Yes/No
10	Detection range: 15m, 110°	Yes/No
11	RFI Immunity: Ave. 20V/m (10~1000MHz)	Yes/No
12	Power Supply: 9 ~ 16V DC, 12V Typical	Yes/No
13	Current Consumption: 20mA, 12V DC	Yes/No
14	Alarm Output: NC/NO 30V DC, 0.2A max.	Yes/No
15	Alarm Duration: 2 seconds	Yes/No
16	Pulse Count: Single/Double	Yes/No
17	Tamper Switch: Cover Open activation	Yes/No
18	Operating Temperature: 0° to 50° Celsius	Yes/No
19	Walk Test LED: Red, can disable	Yes/No
20	Temperature: Automatic using	Yes/No
21	Compensation: NTC thermistor	Yes/No
22	Detection Speed: 0.3 to 1 m/s	Yes/No
23	Reverse Polarity Protection: Through Diode	Yes/No

SI No.	PANIC SWITCH	Yes/No
1	Automatic reset (no key required)	Yes/No
2	Micro switch technology	Yes/No
3	In-built tamper switch	Yes/No
4	Contact O/P: NORMALLY CLOSED	Yes/No
5	Technology: micro-switch with roller	Yes/No
6	Tamper Switch: installed	Yes/No
SI No.	HOOTER	Yes/No
1	High power 130 db	Yes/No
2	4 wired (with tamper loop)	Yes/No
3	Low current consumption	Yes/No
4	Available in 12V DC and 24V DC	Yes/No



5	Available in multiple tones	Yes/No
6	Weatherproof housing	Yes/No

**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)
2	Products should be from ISO certified Manufacturer & Supplier. (Copies to Be Enclosed) (Should be marked as Annexure-2)
3	Copies of Back-To-Back Authorized Dealership Certificates to Be Enclosed (Should be marked as Annexure-3).
4	Local Address & Telephone Number of All Service Centers should be provided (Should be marked as Annexure-4).
5	Copies of ST / CST / VAT / Regn. No. (Should be marked as Annexure-6)
6	Copy of PAN No. Registration (Should be marked as Annexure-7)
7	Brochures / Technical Data Sheets of products offered (Should be marked as Annexure-8.1, 8.2, 8.3 etc).

**Signature & Seal of the Vendor**

*[Handwritten Signature]*



Appendix-F

Performa for Performance Bank Guarantee

UCO Bank, Zonal office, Varanasi, Dhanshree Complex, D-63/8-1-M, Mauza- Tulsipur,  
Mahmoorganj, Varanasi-221010

In consideration of UCO Bank (hereinafter called "the said Purchaser") having its office at **UCO Bank, Zonal office, Varanasi, Dhanshree Complex, D-63/8-1-M, Mauza-Tulsipur, Mahmoorganj, Varanasi-221010**, having agreed to purchase/engage \_\_\_\_\_ from \_\_\_\_\_ having its office at \_\_\_\_\_ (hereinafter called "the said Supplier/Vendor/Contractor") under the terms and conditions of an Agreement dated \_\_\_\_\_ (hereinafter called "the said Agreement").

Towards the security for the due fulfillment of the terms and conditions contained in the said Agreement, it has been agreed by the said Vendor that they will provide a bank Guarantee for Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only).

We \_\_\_\_\_ (indicate the name of the bank) (hereinafter referred to as "the Bank") at the request of \_\_\_\_\_ (Vendor) do hereby undertake and guarantee to pay to the Purchaser an amount not exceeding Rs. \_\_\_\_\_ (either in lump sum or in parts) against any loss or damage caused to or suffered or would be caused to or suffered by the Purchaser by reason of any breach by the said Vendor of any of the terms or conditions contained in the said Agreement. Unless repugnant to the context or meaning there of, expressions, Purchaser, Vendor, Bank shall mean and include their heirs, representatives, successors, executors, administrators, assigns, etc. as may be applicable.

1. The Bank does hereby undertakes to pay the amount(s) due and payable under the guarantee without any demur, merely on a demand from the Purchaser stating that the amount(s) claimed is/are due by way of loss or damage caused to or would be caused to or suffered by the Purchaser by reason of breach by the said Vendor of any of the terms or conditions contained in the said Agreement or by reason of the Vendor failure to perform its obligations under the said Agreement.

Any such demand made by the Purchaser on the Bank shall be conclusive as regards the amount(s) due and payable by the Bank under this guarantee, whether made in one go or in parts. However, Bank's liability under this guarantee shall in totality be restricted to an amount not exceeding Rs. \_\_\_\_\_, whether or not invoked or if invoked, in part or otherwise.

2. The Bank undertakes to pay the Purchaser any money so demanded notwithstanding any dispute or disputes raised by the Vendor or any suit or proceedings pending before any Court or Tribunal relating thereto. Thereby meaning that Bank's liability under the present guarantee shall be absolute and unequivocal in any circumstances what so ever, if called upon to pay by the Purchaser. However our liability shall not exceed in Rs. \_\_\_\_\_ (in words)

3. The Bank further agrees that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the dues and or advances





made by the Purchaser under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till \_\_\_\_\_, the Purchaser certifies in writing that the terms and conditions of the said Agreement have been fully and properly carried out by the said Vendor and accordingly the Purchaser discharges this guarantee, either in writing or by returning the Original Guarantee Bond or till its expiry whichever is earlier to the Bank.

4. The Bank before the release of the Bank Guarantee Bond in original by the purchaser and before the expiry of this guarantee, as per clause 3 of this Guarantee Bond, may renew this guarantee for the same period as was initially requested upon for this guarantee or for any shorter period, at the option of the purchaser, under intimation to the vendor.

5. The Bank further agrees with the Purchaser that the Purchaser shall have the fullest liberty without Bank's or Vendor consent and without affecting in any manner Bank's obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said Vendor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Purchaser against the said Vendor and to forbear or enforce any of the terms and conditions relating to the said agreement and the Bank shall not be relieved from its liability by reason of any such variation, or extension being granted to the said Vendor or for any forbearance, act or omission on the part of the Purchaser or any indulgence by the Purchaser to the said Vendor or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving the Bank, in any manner what so ever.

6. This guarantee will not be discharged during its currency due to the change in the constitution of either the Bank or the Purchaser or the Vendor, in any manner what so ever.

7. The Bank lastly undertakes not to revoke this guarantee during its currency or extensions there of, except with the previous consent of the Purchaser, in writing or otherwise than as is provided in this Guarantee.

8. The Bank also agrees that the Purchaser at its option shall be entitled to enforce this Guarantee against the Bank as its principal debtor in first instance without proceeding against the said Vendor, and notwithstanding any security or other guarantees that the Purchaser may have in relation to or in relation to the Vendor liabilities from time to time, as this guarantee constitutes a separate, distinct and independent contract between the Bank and the Purchaser.

9. Any officer of the Purchaser of the rank of Senior Manager or above, duly authorized in this regard, shall be competent to issue demand/notice or to issue any appropriate instructions, as the circumstances may warrant, to the Bank under this Guarantee, which the Bank shall have to comply immediately and forthwith, without raising any dispute or question/s in regard there to, in any manner what so ever. Notwithstanding any thing contained here in above:

- a) The liability of the Bank under the guarantee shall not exceed Rs. \_\_\_\_\_ (in words).
- b) This Bank Guarantee shall be valid either till \_\_\_\_\_ or till the issue of a fresh Bank Guarantee to the Purchaser with a extended period in lieu thereof or till the Purchaser certifies in writing that the terms and conditions of the said Agreement have been fully and properly carried out by the said Vendor and accordingly the Purchaser discharges this guarantee, in writing and by returning the Original Guarantee Bond to the Bank.





c) The bank before the release of the Guarantee Bond in Original by the purchaser and before the expiry of this guarantee may at its option renew this guarantee for the same period as was initially agreed upon for this guarantee or any shorter period, at the option of the purchaser, under intimation to the vendor.

d) The Bank is liable to consider any notice for invocation of Bank Guarantee as a default by the Supplier/Vendor/Contractor(s) and shall be under an obligation to pay to the Purchaser the entire amount of Guarantee or any part there of under this Bank Guarantee only and only if the Purchaser serves upon the Bank a written claim or demand before the expiry of either the Bank Guarantee or any extended period/s under this Bank Guarantee, as the case may be.

Notwithstanding anything contained herein our liability under this Bank guarantee shall not exceed Rupees \_\_\_\_\_/- (Rupees \_\_\_\_\_ only) This Bank guarantee shall be valid up to \_\_\_\_\_ and we are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before.....

This guarantee will be returned to us as soon as the purpose for which it is issued is fulfilled.

Dated the \_\_\_\_\_ day of \_\_\_\_\_ 2025.

Signature

Name

Designation with Bank stamp



Appendix - G

**Proforma of Bank Guarantee for Annual Maintenance Contract**

(To be submitted on non-judicial stamp paper of appropriate value purchased in the name of the issuing Bank)

The undersigned of \_\_\_\_\_ Bank, having its registered office in \_\_\_\_\_ address \_\_\_\_\_ taking into consideration:

That M/s \_\_\_\_\_ address \_\_\_\_\_ hereinafter called the supplier have received from UCO Bank, Zonal office, Varanasi, Dhanshree Complex, D-63/8-1-M, Mauza- Tulsipur, Mahmoorganj, Varanasi-221010 hereinafter called buyer, an order for supply, installation, and Maintenance of Standalone Digital Video Recorder (SDVR) based Close Circuit Television (CCTV) & Digital fire Cum burglar Alarm System along with Annual Maintenance Services Contract for the same.

That the buyer requires from the supplier a Bank Guarantee for a sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) as a security for due fulfillment by the supplier for their contractual obligations in this respect:

We, \_\_\_\_\_ (name of the Bank) declare hereby to guarantee irrevocably and unconditionally upto a maximum amount of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) towards due fulfillment by the supplier of their obligations in this regard, and consequently undertake to pay to the buyer on their first written demand, all that which the buyer declares the supplier are due to them in this respect, such with due observance of the above maximum amount.

This guarantee will remain valid up to and including \_\_\_\_\_ date (end of period). Claims, if any, must have been received by the undersigned on that date \_\_\_\_\_ the latest, at the address \_\_\_\_\_ (address of the issuing Bank and branch).

Notwithstanding anything contained hereinabove, our liability under this guarantee is restricted to Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) This Bank Guarantee expires on \_\_\_\_\_ (date). Unless a claim or demand is received by us at issuing Bank / Branch address \_\_\_\_\_, in writing on or before \_\_\_\_\_ (claim period up to \_\_\_\_\_ date), all rights of the buyer under the said guarantee shall be forfeited and we shall be released and discharged from all our liabilities thereafter.

The confirmation of this guarantee may be obtained from our controlling office of the issuing branch at \_\_\_\_\_ address \_\_\_\_\_.

Place: \_\_\_\_\_ Signature of the person issuing guarantee  
Date: \_\_\_\_\_ with Seal of Bank

**Maintenance Tasks For CCTV system Under Warranty Period And  
Thereafter Under Annual Maintenance Contract**



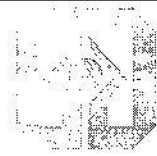
- 1 During every quarterly visit and while attending the break-down calls, inspect the overall condition of the **CCTV & Digital alarm** system, power back-up and wiring.
- 2 Test and check the system for proper functioning and diagnose any defects noticed during testing as reported by the Branch and/or Extension Counter.
- 3 Test the unit for overheating, if detected.
- 4 Check all components with other circuitry and components.
- 5 Check power and cables.
- 6 Check the entire wiring for loose connections, loose fittings, damage by rodents etc especially at floor crossings.
- 7 Replace the defective parts, if any, and destroy the replaced part(s) in front of the Bank official(s).
- 8 Test the whole system and demonstrate the same to the Branch staff.
- 9 Remove any defects or complaints reported by the Branch/ Extension Counter.
- 10 Obtain signature of the Manager or any other Authorised Official of the Branch/ Extension Counter with Branch Seal and date on the Service Certificate clearly specifying the work done and parts replaced.
- 11 Spares and components of reputed Companies only should be used.
- 12 Wires used should be of recognized Companies and should conform to the ISI specifications on the same.
- 13 The Representative(s) of the Contractor will always produce their Identity Cards issued by the Firm to the Branch officials before commencing the work.

**The Vendor should undertake to: -**

**Depute technicians to pay quarterly statutory visits (4 per year) and also attend to all break down calls as and when required within the time limit mentioned hereinabove, for maintenance of CCTV Systems.**

- 1 The statutory visits will be made with at least 75 days but not more than 105 days gap between the two consecutive visits. Any visit beyond this period will not be counted.
- 2 Depute technicians to repair faults arising due to and because of faulty, incorrect or incomplete maintenance work and also arising out of any other technical faults. No separate charges will be paid for such visits.
- 4 The Technicians will carry adequate and suitable tools, equipments, spares and other required materials for maintenance work.
- 5 The maintenance schedule will be as per details given herein above.
- 6 The Contractor will ensure that the Biometric Access control Systems are in perfect working conditions all through.
- 7 The fault repair calls will be attended immediately, but not later

*[Handwritten signature]*



- than 24 hours of receipt of intimation in our Branch
- 8 Contractor will maintain a complaint register at his office and each complaint will be given a serial number for easy management.
  - 9 The Contractor will prepare a Servicing Memo in quadruplicate and will get the same signed by the Branch Manager/ Authorised Official on satisfactory completion of the work. One copy of the same will be handed over to the Branch immediately.
  - 10 The Contractor will submit the following reports of all the Branches and Extension Counters to the Bank within 10 days of the end of each quarter.
    - (i) Overall maintenance and defects status report of Branch for the quarter.
    - (ii) Extract of the Complaint Register for the quarter.
    - (iii) One copy of the Servicing Memo(s) duly signed by the Branch Manager/ Authorised Official with rubber stamp of the Branch.

**The Bank undertakes to-**

- 1 Instruct Branch where **CCTV & Digital Alarm Systems** will be installed to allow the Contractor to undertake maintenance work and extend all possible cooperation to the Technicians of the Contractor.
- 2 To monitor, control and supervise the quality of services being provided by the Contractor within a reasonable period.
- 3 To ensure payment of quarterly visits (during the AMC period i.e. after completion of the defect liability period of one year) from Zonal Office within a reasonable period.
- 4 To receive and scrutinize the reports submitted by the Contractor.
- 5 To make available to the Contractor all details of timings, weekly offs, holidays etc of the Branches. Any changes made in between will also be informed.

*[Handwritten signature]*