

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.

<u>HD DVR for 4 Channel 2 SATA</u>			
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, IR Based remote control, Keyboard (Both RS485 and IP), IP Network, USB mouse	
5	Analog / HD Camera Input	Minimum 4 BNC	
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 Input, BNC, 1 channel Output, BNC or RCA	
11	Display Screen Mode	1,4,8,9,16,32 ALL (Window)	
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	1080p@25 fps, 1080p@30 fps, 720p@25 fps, 720p@30 fps;	
16	Encoding Stream	For 1080p stream access:1080p/720p@15 fps; VGA/WD1/4CIF/CIF@25 fps (P)/30 fps (N)	
		For 720p stream access: 720p/VGA/WD1/4CIF/CIF@25 fps (P)/30 fps (N)	
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	
24	Water Marking	Supported	
25	Playback Channel	Synchronous Playback 1,2,4,16	
26	Recorded Data Search Mode	Video Time & Date, Exact search (with Date, Hour, Minute and Second accuracy), Motion Detection, Alarm	
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 or better	
31	USB Interface	Minimum 2 Ports	
32	Power Supply	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 ,CE,FCC & BIS	
36	HDD quality	Surveillance Hard Disk: Sky Hawk/Western Digital	

<u>HD DVR for 8 Channel 4 SATA</u>			
S.N	Parameter	Specification	Compliances
1	Compatibility	Analog cameras (mandatory), AHD, CVI, TVI	
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, IR Based remote control, Keyboard (Both RS485 and IP), IP Network, USB mouse	
5	Analog / HD Camera Input	Minimum 4 BNC	
6	IP Camera Input	08 Ch. HD +4 IP Ch. (Total 12 IP Channel each upto 6 MP	
6	IP Camera Input	08 Ch. HD +4 IP Ch. (Total 12 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 Input, BNC, 1 channel Output, BNC or RCA	
11	Display Screen Mode	1,4,8,9,16,32 ALL (Window)	
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	
14	Video/Audio Compression	H.264 or better	
15	Image Resolution	1080p/720p/VGA/WD1/4CIF/CIF;	
16	Encoding Stream	For 1080p stream access:1080p/720p@15 fps; VGA/WD1/4CIF/CIF@25 fps (P)/30 fps (N)	
		For 720p stream access: 720p/VGA/WD1/4CIF/CIF@25 fps (P)/30 fps (N)	
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 8	
23	Relay Output	Supported	
24	Water Marking	Supported	
25	Playback Channel	Synchronous Playback 1,2,4,16	
26	Recorded Data Search Mode	Video Time & Date, Exact search (with Date, Hour, Minute and Second accuracy), Motion Detection, Alarm	
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 8 Channel – 4 SATA , Should support up to 10 TB per SATA port	
31	USB Interface	Minimum 2 Ports and atleast 1 should be USB3.0	
32	Power Supply	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 ,CE,FCC & BIS	
36	HDD quality	Surveillance Hard Disk: Sky Hawk/Western Digital	

HD DVR 16 / 32 Channel 8 SATA

S.N	Parameter	Specification	Compliances for 32 CH
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, IR Based remote control, Keyboard (Both RS485 and IP), IP Network, USB mouse	
5	Analog / HD Camera Input	Minimum 4 BNC	
6	IP Camera Input	16 Ch. HD + 8 IP Ch. (32 Ch HD+ 16IP CH: 32 CH XVR)	
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 Input, BNC, 1 channel Output, BNC or RCA	
11	Display Screen Mode	1,4,8,9,16,32 ALL (Window)	
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	
14	Video/Audio Compression	H.264 or better	
15	Image Resolution	1080p/720p/VGA/WD1/4CIF/CIF or better	
16	Encoding Stream	For 1080p stream access: 1080p/720p@15 fps; VGA/WD1/4CIF/CIF@25 fps (P)/30 fps (N)	
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 16	
23	Relay Output	Supported Maximum 8	
24	Water Marking	Supported	
25	Playback Channel	Synchronous Playback 1,2,4,16,32	
26	Recorded Data Search Mode	Video Time & Date, Exact search (with Date, Hour, Minute and Second accuracy), Motion Detection, Alarm	
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 16 / 32 Channel – 8 SATA , should support up to 10 TB per SATA port	
31	USB Interface	Minimum 2 Ports and atleast 1 should be USB3.0	
32	Power Supply	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 ,CE,FCC & BIS	
36	HDD quality	Surveillance Hard Disk: Sky Hawk/Western Digital	

4CH ATM DVR			
SI No.	PARAMETERS	Specifications	Compliance Yes/No
1	Operating system	Embedded RTOS / Linux / Windows	
2	CPU	32 bit DSP or more powerful	
3	Analog / HD Camera Input	4 Channel DVR	
4	Video surveillance Hard disk	Surveillance Grade DVR HDD	
5	HDD Slots	1 SATA	
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,1,9 for 8 Channel &1,16 for 16 channel	
10	Encoding Resolution	<u>WD1/4CIF/CIF@25 fps (P)/30 fps (N) or better resolution</u>	
11	Audio Input	1-ch, RCA (2.0 Vp-p, 1 K Ω)	
12	Audio Output	1-ch, RCA (Linear, 1 K Ω)	
13	Synchronous Playback	4 Ch	
14	Independent Recording setting Per channel	Continuous, motion detection sensor activated, flexible date /time daily Schedule.	
15	Monitoring	4 channel real time Monitoring. Single mode & 2x2 Mode Sequential switching mode <u>Switching out monitoring</u>	
16	Searching / Playback	Date & Time based 1 channel searching and all channel simultaneous searching Replay up to 25 fps in each channel	
17	Video Intelligence	Should support Motion detection, Intrusion Detection	
18	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	
19	User Interface	On screen graphic User Interface(GUI)	
20	System recovery after power failure	Auto Re booting	
21	Operation for setting and searching	User friendly	
22	Multiple functionality	Should support penta flex functions to perform all DVR 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.	
23	Compatibility	Should support all types of cameras	
24	Certifications	UL ,CE,FCC & BIS	
25	System operation	Micro processor based Password operated	

HD Fixed Dome

S.No	Parameters	Specification	Compliance Yes/No
1	HD Technology	AHD, CVI, TVI, CVBS	
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	Color: 0.0005 Lux or better, 0 Lux IR on	
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	
11	Sync System	Internal	
12	White Balance	Automatic	
13	Day & Night	Automatic	
14	Shutter	Automatic	
15	Auto Gain Control (AGC)	Automatic	
16	Noise Reduction (NR)	3DNR	
17	White Light	Up to 20 mtr	
18	Lens	3.6mm, 6mm	
19	WDR	120 db WDR	
20	Input Voltage	DC12V±10%	
21	IP Rating	IP67	
22	Operation Temp	-30° to +50° C	
23	Storage Humidity	90% or less	
24	Certification	UL ,CE,FCC & BIS	

HD Fixed Bullet			
S.No	Parameters	Specification	Compliance Yes/No
1	HD Technology	AHD, CVI, TVI, CVBS	
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	Color: 0.0005 Lux or better , 0 Lux IR On	
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	
11	Sync System	Internal	
12	White Balance	Automatic	
13	Day & Night	Automatic	
14	Shutter	Automatic	
16	Auto Gain Control (AGC)	Automatic	
17	Noise Reduction (NR)	3DNR	
18	White Light	Up to 30 mtr	
20	Lens	3.6mm	
21	Field of view	3.6 mm, horizontal FOV: 83.0°, vertical FOV: 44.4°, diagonal FOV: 98.0° 6 mm, horizontal FOV: 51.0°, vertical FOV: 28.5°, diagonal FOV: 58.7°	
22	WDR	120 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 ,CE,FCC & BIS	

HD Varifocal Dome

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	
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±10%	
22	IP Rating	IP67 ,IK10	
23	Operation Temp	0° to +50° C	
24	Storage Humidity	90% or less	
25	Certification	UL ,CE,FCC & BIS	

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	Color: 0.01 Lux @(F1.2, AGC ON), 0.028Lux @(F2.0, AGC ON);
3		B/W: 0.001 Lux @(F1.2, AGC ON), 0.0028 Lux @(F2.0, AGC 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	2.8/4/6 mm
12	Aperture	F2.0
13	Focus	Fixed
14	FOV	2.8 mm: horizontal FOV: 103°, vertical FOV: 62°, diagonal FOV: 118°
		4 mm: horizontal FOV: 90°, vertical FOV: 48°, diagonal FOV: 109°
		6 mm: horizontal FOV: 55°, vertical FOV: 31°, diagonal FOV: 62°
17	Lens Mount	M12
	IR	
18	IR Range	Up to 40 m
19	Wavelength	850nm
	Compression Standard	
20	Video Compression	Main stream: H.265/H.264
		Sub-stream: H.265/H.264/MJPEG
		Third stream: H.265/H.264
21	H.264 Type	Baseline Profile/Main Profile/High Profile
22	H.264+	Main stream supports
23	H.265 Type	Main Profile
24	H.265+	Main stream supports
25	Video Bit Rate	32 Kbps to 8 Mbps
	Smart Feature-set	
26	Behavior Analysis	Line crossing detection, intrusion detection
27	Exception Detection	Scene change detection
28	Face Detection	Yes
29	Region of Interest	1 fixed region for main stream
	Image	
30	Max. Resolution	1920 × 1080
31	Main Stream	50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720)
		60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720)
32	Sub-Stream	50Hz: 25fps (704 × 576, 640 × 480, 352 × 288, 320 × 240)

		60Hz: 30fps (704 × 480, 640 × 480, 352 × 240, 320 × 240)
33	Third Stream	50Hz: 1fps (352 x 240, 320 x 240)
		60Hz: 1fps (352 x 240, 320 x 240)
34	Image Enhancement	BLC, 3D DNR, HLC
35	Image Settings	Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser
36	Day/Night Switch	Day/Night/Auto/Schedule
	Network	
37	Network Storage	Support Micro SD/SDHC/SDXC card (128G), NAS (NFS, SMB/CIFS)
38	Alarm Trigger	Motion detection, video tampering, illegal login, HDD full, HDD error
39	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, SNMP, IGMP, 802.1X, QoS, IPv6, BonjourPPPoE, NTP, UPnP™, SMTP,
41	General Function	Anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark, IP address filter
42	Firmware Version	V5.5.3
43	API	ONVIF (PROFILE S, PROFILE G), ISAPI
44	Simultaneous Live View	Up to 6 channels
45	User/Host	Up to 32 users, 3 levels: Administrator, Operator and User
48	Client	iVMS-4200, Hik-Connect, iVMS-5200, iVMS-4500
49	Web Browser	IE8+, Chrome 31.0-44, Firefox 30.0-51, Safari 8.0+
	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 128 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 Curr	PoE: (802.3af, 36V to 57V), 0.2 A to 0.1 A, max: 6.5W, 12 VDC, 0.4 A, max. 5.0W
56	Protection Level	IP67
57	Material	Shell: plastic, camera body: metal
58	Dimensions	Camera: F 114.6 × 82.1 mm (F 4.5" × 3.2")
		With package: 150 × 150 × 141 mm (5.9" × 5.9" × 5.6")
59	Weight	Camera: approx. 400 g (0.9 lb.)
		With package: approx. 500 g (1.1 lb.)
60	Certification	UL ,CE,FCC & BIS

HD varifocal Bullet

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	
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±10%	
22	IP Rating	IP67	
23	Operation Temp	0° to +50° C	
24	Storage Humidity	90% or less	
25	Certification	UL ,CE,FCC & BIS	

Pinhole Camera

Sr No	Feature	specification	Compliance Yes/No
1	Image Sensor	1/3" CMOS /CCD <i>or better</i>	
2	Effective pixels	1920(H)x1080(V))	
3	Resolution	1920(H)x1080(V))	
4	Sync system	Internal	
5	Min. illumination	<i>Colour-0.05Lux B/W 0.005Lux or better</i>	
6	S/N ratio	52 dB	
7	Electronic shutter	Auto, 1/50 , 1/100,000 sec	
8	Lens	4 mm or <4mm	
9	WDR	120 db WDR	
10	BLC	On/Off (Auto)	
11	Motion detection	Yes	
12	Gamma	Auto/manual	
13	White balance	Set/Manual/Indoor/Outdoor/ Auto	
14	AGC	Off/Low/Middle/High	
15	Day & Night	Color/B/W/Auto level adjust	
16	Video output	1.00V p-p CompositeVideo Output, 75 Ohm	
17	Power supply	DC12V	
18	Power consumption	3 Watts max	
19	Certification	UL ,CE,FCC & BIS	

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		75 ohms
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,

(CATEGORY 6A U/UTP 4 PAIR 23 AWG LSZH)- CAT 6 CABLE

<u>Physical Characteristics</u>		
Insulation	Construction	U/UTP
	Number of pairs	4 pair
	AWG	23 AWG (0.57=/- 0.01mm)
	Solid or Stranded; bare or tinned	Solid bare copper
	Insulation Material	HDPE
	Number colour(stripe marking)	1. Blue, White/Blue(Stripe)
		2. Orange, White/Orange (stripe)
		3. Green, White/Green(stripe)
Filter		4. Brown, White/Brown (stripe)
	Filter Special Filler	LSZH
Outer Jacket	Outer Jacket material	LSZH
	Overall dimention	7.5 +/- 0.4 mm
	Outer jacket rip cord	Yes
Mechanical	Outer jacket colour	Grey RAL 7035
	Operating temp. Range	-20 °C ~ +70 °C
Electrical	Nom. Mutual capacitance	<=5.6 nF/100m @1KHz
	Max. Capacitance unbalance	<=330 pF/100m
	Nominal velocity of propagation	65%
Characteristics	Max. Delay skew	45 ns/100m
	Impedence	100±15%Ω
	Max. Conductor resistance	93.8Ω/km (@ 20 °C)
Make & Type	Max. Conductor resistance unbalance	<=5% (@ 20 °C)
		Molex, TRISIM, D Link, Digisol,

19" / 22" / 24" HD LCD Monitor

S.No	Category	Parameters	Specification	Compliance Yes/No	Remark
1	Monitor	Backlight	LED Backlight		
2		Screen Size	19 inch		
3		Pixel Pitch	0.36375mm * 0.36375mm		
4		Max Resolution	1920 * 1080@60Hz		
5		Brightness	300 cd/m2(typ.)		
6		Contrast	1400:1(typ.)		
7		Response Time	8 ms		
8		Color	16.7M		
9		Active Area	698.4(H)*392.85 (V) mm		
10		Viewing Angle	178°(H)/178°(V)		
11	Interface	VGA Input	1		
12		HDMI Input	1		
13		Audio Input	1		
14		RJ45(RS232)	1		
15	General	Loudspeaker	Yes		
16		VESA	75 mm × 75 mm		