

CRITERIA FOR TECHNICAL EVALUATION OF CCTV SURVEILLANCE SYSTEM

sl no	Eligibility Criteria	Documents to be submitted
1	The bidder must be an Indian firm/organisation	Copy of Certificate of Incorporation issued by Registrar of Companies
2	The bidder must submit the Manufacture's Authorization Letter	Copy of OEM Certificate
3	The bidder must have a valid GST Registration and attach the proof of the GST tax registration.	COPY ATTACHED
4	The bidder should have relevant experience of minimum of 08 years in "Supply, Installation & Commissioning of similar cctv projects"	Copy of Purchase Order
5	The manufacture's should have certifications like ISO9001 certifications	Copy of the valid certificates
6	The Products should have certifications like BIS Certification	Copy of the valid certificates
7	The bidder should have minimum of 1 implemented Project is not less than 10 lakhs (GOVT/OTHER TO SUBMIT THE COPY OF PROJECT)	Copy of Purchase Order
8	The bidder should have minimum of 7 implemented Projects is not less than 5 lakhs	Copy of Purchase Order
9	The Products should have ONE YEAR warranty	
10	The rate quoted should include all Taxes, Labour, transportation, loading & unloading as required.	
11	Satisfaction letter from at least 5 GOVT. organizations mentioned on their Letter Head	Copy of Satisfaction Letter
12	The comparison of Bids for the award of the order will be based on Technical Criteria. Evaluation by the Technical experts & Purchase committee will be treated as final. CSI LAW COLLEGE, PARASSALA reserves the right to reject any tender or all the Tenders without assigning any reason therefore.	
13	All the pages of Tender form should be duly signed.	
14	The bidder should have service centre in Trivandrum	Copy of address proof

SPECIFICATION FOR IP CCTV SURVEILLANCE SYSTEM AT CSI LAW COLLEGE

SL NO	Features	Specification	QTY	Compliance(Y/N)
1	32 CHANNEL NETWORK VIDEO RECORDER		1	
	Main Processor	Quad-core embedded processor		
	Operating System	Embedded LINUX		
	IP Camera Input	32 Channel		
	Two-way Talk	1 Channel Input, 1 Channel Output, RCA		
	Interface	1 HDMI, 1VGA		
	Resolution	3840 × 2160 , 1920 × 1080 , 1280 × 1024, 1280X720, 1024X768		
	OSD	Camera title, Time,video loss, Camera lock, Motion detection, Recording		
	Compression	H.265/H.264		
	Resolution	8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, 720P		
	Bit Rate	16Kbps ~ 20Mbps Per Channel		
	Record Mode	Manual, Schedule (Regular, continuous), MD(video detection, Motion Detection) , video loss, tampering), Stop		
	Record Interval	1 ~ 120 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec		
	Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, Snapshot, Buzzer and Screen Tips		
	Video Detection	Motion Detection, MD Zones: 396 (22 × 18), video loss and tampering		
	Alarm input	4 Channel., low level effective, green terminal interface		
	Relay Output	2 Channel., no/nc programmable, green terminal interface		
	Sync Playback	1/4/8/16		
	Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second), smart search		
	Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection, Digital Zoom		
	Backup Mode	USB Device/Network		
	network Interface	1 RJ-45 Ports (10/100/1000Mbps)		
		Independent or Joint Working		
Network Function	HTTP, HTTPSTCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, IP Search			
Max. User Access	128 users			
Smart Phone	iPhone, iPad, Android			
Internal HDD	2 SATA Ports, Up to 6TB capacity for each HDD			

	USB	2 USB Ports		
	CERTIFICATIONS	CE,FCC,UL		
	MAKE	DAHUA, BOSCH,SONY,SAMSUNG,PELCO		
	2MP IP IR DOME CAMERA			
	Image Sensor	1/2.7" 2Megapixel progressive CMOS		
	Effective Pixels	1920(H) x1080(V)		
	Scanning System	Progressive		
	RAM/ROM	64MB/16MB		
	Electronic Shutter Speed	Auto/Manual, 1/3(4)~1/100000s		
	Minimum Illumination	0.09Lux/F2.0(Color,1/3s,30IRE)		
		0.5Lux/F2.0(Color,1/30s,30IRE)		
		0Lux/F2.0(IR on)		
	S/N Ratio	More than50dB		
	IR Distance	30m		
	Focal Length	2.8mm /3.6 mm		
	Max. Aperture	F2.0/F2.0		
	Angle of View	H:12°/87.5°, V:60°/47°		
	Lens	FIXED		
	Resolution	1080P(1920×1080)/1.3M(1280X960)/720P(1280×720)/D1(704×576/704×480)/VGA(640X480)/CIF(352×288/352×240)		
2	Frame Rate	Main Stream: 1080P(1 ~ 20fps) Sub Stream: D1(1 ~ 25/30fps)	26	
	Bit Rate	H.265: 12K ~ 5632K, H.264: 32K~8192K		
	BLC Mode	BLC / HLC / DWDR		
	White Balance	Auto/Natural/Street Lamp/Outdoor/Manual		
	Gain Control	Auto/Manual		
	Noise Reduction	3D DNR		
	Motion Detection	Off / On (4 Zone, Rectangle)		
	Region of Interest	Off / On (4 Zone)		
	Privacy Masking	Off / On (4 Area, Rectangle)		
	Ethernet	RJ-45 (10/100Base-T)		
	Protocol	HTTP;TCP;ARP;RTSP;UDP;RTCP; UDP;DHCP,DNS,IPV4;NTP;MULTICAST; ICMP;TLS;FTP		
	Max. User Access	20 Users		
	Smart Phone	Android,IOS		
	video compression	H.265/H.264H/MJPEG		
	Ingress Protection	IP67		
	MAKE:	DAHUA,BOSCH,SONY,SAMSUNG,PELCO		
	2MP IP IR BULLET CAMERA			
	Image Sensor	1/2.7" 2Megapixel progressive CMOS		
	Effective Pixels	1920(H) x1080(V)		
	Scanning System	Progressive		
	RAM/ROM	64MB/16MB		
	Electronic Shutter Speed	Auto/Manual, 1/3(4)~1/100000s		
	Minimum Illumination	0.09Lux/F2.0(Color,1/3s,30IRE)		
		0.5Lux/F2.0(Color,1/30s,30IRE)		
		0Lux/F2.0(IR on)		
	S/N Ratio	More than50dB		

IR Distance	30m
Focal Length	2.8mm /3.6 mm
Max. Aperture	F2.0/F2.0
Angle of View	H:12°/87.5°, V:60°/47°
Lens	FIXED
Resolution	1080P(1920×1080)/1.3M(1280X960)/720P(1280×720)/D1(704×576/704×480)/VGA(640X480)/CIF(352×288/352×240)
Frame Rate	Main Stream: 1080P(1 ~ 20fps) Sub Stream: D1(1 ~ 25/30fps)
Bit Rate	H.265: 12K ~ 5632K, H.264: 32K~8192K
BLC Mode	BLC / HLC / DWDR
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)
Privacy Masking	Off / On (4 Area, Rectangle)
Ethernet	RJ-45 (10/100Base-T)
Protocol	HTTP;TCP;ARP;RTSP;UDP;RTCP; UDP;DHCP,DNS,IPV4;NTP;MULTICAST; ICMP;TLS;FTP
Max. User Access	20 Users
Smart Phone	Android,IOS
video compression	H.265/H.264H/MJPEG
Ingress Protection	IP67
MAKE:	DAHUA,BOSCH,SONY,SAMSUNG,PELCO

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2MP IP IR VARIFOCAL BULLET CAMERA	
Image Sensor	1/2.8" 2Megapixel progressive CMOS
Effective Pixels	1920(H) x1080(V)
Scanning System	Progressive
RAM/ROM	256MB/32MB
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s
Minimum Illumination	0.006Lux/F1.4(Color,1/3s,30IRE)
	0.5Lux/F1.4(Color,1/30s,30IRE)
	0Lux/F1.4(IR on)
S/N Ratio	More than50dB
IR Distance	60m
Focal Length	2.7mm-13.5 mm
Max. Aperture	F1.4
Angle of View	H:106°~29°, V:57°/17°
Lens	FIXED
Resolution	1080P(1920×1080)/1.3M(1280X960)/720P(1280×720)/D1(704×576/704×480)/VGA(640X480)/CIF(352×288/352×240)
Frame Rate	Main Stream: 1080P(1 ~ 25/30fps) Sub Stream: D1(1 ~ 25/30fps)
Bit Rate	H.265: 12K ~ 6400Kbps, H.264: 32K~10240Kbps
BLC Mode	BLC / HLC / WDR
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual

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	Gain Control	Auto/Manual		
	Noise Reduction	3D DNR		
	Motion Detection	Off / On (4 Zone, Rectangle)		
	Region of Interest	Off / On (4 Zone)		
	Privacy Masking	Off / On (4 Area, Rectangle)		
	Ethernet	RJ-45 (10/100Base-T)		
	Protocol	HTTP;TCP;ARP;RTSP;UDP;RTCP; UDP;DHCP,DNS,IPV4;NTP;MULTICAS; ICMP;TLS;FTP		
	Max. User Access	20 Users		
	Smart Phone	Android,IOS		
	video compression	H.265/H.264H/MJPEG		
	Ingress Protection	IP67		
	MAKE:	DAHUA,BOSCH,SONY,SAMSUNG,PELCO		
5	CCTV POWERSUPPLY-5AMPS ERD/BESTNET		8	
6	SURVEILLANCE HARD DISK-6TB WDPURPLE/SEAGATE		2	
7	RJ-45 CONNECTOR WITH BOOT-D-LINK/BESTNET		100	
8	DC CONNECTORS		32	
9	16 PORT GIGABIT 10/100/1000 Mbps Ports SWITCH-NETGEAR/CISCO		2	
10	08 PORT GIGABIT 10/100/1000 Mbps Ports SWITCH-NETGEAR/CISCO		6	
11	05 PORT GIGABIT 10/100/1000 Mbps Ports SWITCH-TENDA/TP LINK		4	
12	6U RACK DEPTH : 600 mm & WIDTH: 550mm WITH ACCESSORIES(COOLING FAN, CABLE MANAGER, PDU, TRAY & TOOL KIT)-D-LINK/NETRACK		1	
13	SINGLE MODULE BOX FOR CAMERA FIXING		32	
14	1.5 SQMM 2 CORE CABLE including labour and Materials (FINOLEX/RR/V-GUARD) (APPROX 600 METER)		600 MTR	
15	CAT-6 23AWG UNSHIELDED TWISTED PAIR CABLE including labour and Materials (MOLEX/NODEN/COMMSCOPE) (APPROX 1500METER)		1500M TR	
16	CAT-6 UG CABLE including labour and Materials (MOLEX/NODEN/COMMSCOPE) (APPROX 250METER)		250 MTR	
17	08 PORT SWITCH MOUNTABLE METAL BOX		8	
18	16 PORT SWITCH MOUNTABLE METAL BOX		2	
19	1KVA ONLINE UPS WITH 2 HOURS BACKUP-HYKON		1	
20	40" LED FULL HD TV-VU/SAMSUNG/SONY		2	
21	HDMI CABLE-5 MTR		2	
22	ACER- CORE i5 4 GB 1 TB HDD DVDRW WINDOWS 10 HOME		1	
23	TRENCHING CHARGE , EARTHWORK IN EXCATION UP TO 2 FT DEPTH IN ALL KIND OF GROUNDS (SOIL, CONCRETE, TARING), BACKFILLING OF THE SAME (APPROX 150 MTR)		150	
24	INSTALLATION CHARGE FOR 32 NOS CAMERAS & 01 NOS NVR MOUNTING,SOFTWARE/ IP PROGRAMMING		LOT	