

**Central Library  
Indian Institute of Technology  
Hauz Khas, New Delhi-110 016**

**Corrigendum**

Ref. : Tender No. 5240 dated 4/2/2015

Dated :17.02.2015

Tender No: IITD/Library/CCTV/2015/01

**Subject : Corrigendum - Supply, Installation and Commissioning of CCTV  
Security System at Central Library, IIT Delhi**

With reference to Tender No. 5240 dated 4/2/2015, following are the changes in the technical specifications, Compliance and BOQ. The last date of submission of tender is extended upto 27th Feb. 2015 by 1500 Hrs.

1.	<b>EMD Amount</b>	Rs. 10,000 (Rupees Ten Thousand only)
2.	<b>Download of Tender Document.</b>	03 Feb. 2015 to 27 Feb 2015
3.	<b>Last date for receipt of queries</b>	27 Feb. 2015
4.	<b>Last Date and Time for receipts of Bids</b>	Upto 1500 Hrs. on 27 Feb. 2015
5.	<b>Opening of Technical Bid</b>	1530 Hrs. on 27 Feb. 2015
6.	<b>Place of Submission &amp; Opening of Bids</b>	Central Library Indian Institute of Technology, Hauz Khas, New Delhi- 110016
7.	<b>Address of Communication</b>	Professor Incharge (Library) Central Library Indian Institute of Technology, Hauz Khas, New Delhi - 110016
8.	<b>Contact Phone Numbers</b>	(+91)-11-26591451
9.	<b>Fax Number</b>	(+91)-11- 26596759
10.	<b>E-mail Address</b>	<a href="mailto:neerajkc@library.iitd.ac.in">neerajkc@library.iitd.ac.in</a>

## TECHNICAL SPECIFICATION

### 1.3 MEGAPIXEL IR DOME and BULLET HD CAMERA

Image Sensor	1.3 Mega Pixel
Sensor	CMOS/CCD
Resolution	Full HD 1080P/720P
Effective Pixels	1280(H)×960(V)
Electronic Shutter	4/25s~1/45,000s
Video Frame Rate	1280×720@25 fps, 1280×720@30 fps 1280×720@50 fps, 1280×720@60 fps
Synchronization	Internal
Min. Illumination	0.01Lux@F1.2(0Lux IR LED on)
Video Output	1-channel BNC high definition video output/ CVBS standard definition video output
<b>Camera Features</b>	
Max. IR LEDs Length	20m, Smart IR
Day/Night	Auto(ICR)/B&W/Color
Noise Reduction	3D/2D
OSD Menu	Support
<b>Lens</b>	
Focal Length	3.6 mm or above
Mount Type	M12
<b>General</b>	
Power Supply	DC12V±10%
Power Consumption	Max 3.5W
Working Environment	-30°C~+60°C/ Less than 95% RH
Transmission Distance	Over 500m via coaxial cable
Ingress Protection	IP66
Mode	Day/Night

## TECHNICAL SPECIFICATION

### 32 CHANNEL HD HYBRID DVR

<b>System</b>		
Main Processor		Embedded processor
Operating System		Embedded LINUX
<b>Video</b>		
Input		32 channel, BNC
Standard	HD Analog	1080P/720P HDCVI/AHD Camera
<b>Audio</b>		
Input		4 channel, BNC
Output		1 channel, BNC
Two-way Talk		1 channel Input, 1 channel Output, BNC
<b>Display</b>		
Interface		2 HDMI, 1 VGA, 1 TV
Resolution		1920×1080, 1280×1024, 1280×720, 1024×768
Display Split		1/4/8/9/16/25/36
Privacy Masking		4 rectangular zones (each camera)
OSD		Camera title, Time, Video loss, Camera lock, Motion detection, Recording
<b>Recording</b>		
Video/Audio Compression		H.264/G.711
Record Rate	Main Stream:	720P/960H/D1/HD1/2CIF/CIF(1~25/30fps)
	Extra Stream	CIF/QCIF(1~25/30fps)
Bit Rate		48~4096Kb/s
Record Mode		Manual, Schedule(Regular(Continuous), MD), Stop
Record Interval		1~60 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec
<b>Video Detection &amp; Alarm</b>		
Trigger Events		Recording, PTZ, Tour, Alarm out, Video Push, Email, FTP, Snapshot, Buzzer & Screen tips
Video Detection		Motion Detection, MD Zones: 396(22×18), Video Loss & Camera Blank
Alarm Input		16 channel
Alarm Output		6 channel

<b>Playback &amp; Backup</b>	
Sync Playback	1/4/9/16
Search Mode	Time/Date, MD & Exact search
Playback Functions	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom and others
Backup Mode	USB Device/eSATA Device/Internal SATA burner/Network
<b>Network</b>	
Ethernet	RJ-45 port
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, SNMP, P2P
User Access	128 users or more
Smart Phone	iPhone, iPad, Android, Windows Phone
<b>Storage</b>	
Internal HDD	4 SATA ports(4 HDDs or 3HDDs+1 CD/DVD-RW), up to 16TB
External HDD	1 eSATA port, up to 16TB
<b>Auxiliary Interface</b>	
USB Interface	3 ports (2 Rear), USB2.0
RS232	1 port, For PC communication & Keyboard
RS485	1 port RS485 for PTZ control,1 port RS422 for Keyboard
<b>General</b>	
Power Supply	AC 100~240 V, 50/60 Hz
Power Consumption	40W(Without HDD)/Standard
Working Environment	-10° C ~+55° C /10%~90%RH

## TECHNICAL SPECIFICATION

### OTHER COMPONENTS

S. N	Product	Specifications	Make/Remarks
1.	2 TB CCTV HDD	CCTV HDD	Western Digital/Other reputed
2.	Power Supply	12V DC, 10 Amp, 8 Channel, 1.1 Amp output per channel, Inbuilt fuse, Short circuit protection, Overload protection	Maplin, ERD or similar reliable
3.	32'' LED Screen	Full HD LED-1080P Resolution	LG/Samsung/Sony
4.	6U Rack	Dimensions: Standard Size, 2 fan cut off	D-Link/other reputed
5.	RG-6 Video Cable	High Speed Transmission Low Attenuation No Voice Loss, UL and CUL Listed	ISI/ISO Marked
6.	Power Cable	High Standard	ISI/ISO Marked
7.	PVC Conduit	High Standard, Heavy Duty, Fire protected	ISI/ISO Marked
8.	Connectors & BNC	Impedance: 50-75 ohm, Frequency range: 0-4 GHz, Working voltage: 500V rms, Insulation Resistance: 5000 megaohms (min)	ISI/ISO Marked

**Sub. : Product specific Compliance Report against Supply, Installation and Commissioning of CCTV Security System at Central Library, IIT Delhi****Compliance - 1.3 MEGAPIXEL IR DOME/BULLET HD CAMERA**

S. No.	Items	Features	Yes/No
1	Image Sensor	1.3 Mega Pixel	
2	Sensor	CMOS/CCD	
3	Resolution	Full HD 1080P/720P	
4	Effective Pixels	1280(H)×960(V)	
5	Electronic Shutter	4/25s~1/45,000s	
6	Video Frame Rate	1280×720@25 fps, 1280×720@30 fps 1280×720@50 fps, 1280×720@60 fps	
7	Synchronization	Internal	
8	Min. Illumination	0.01Lux@F1.2(0Lux IR LED on)	
9	Video Output	1-channel BNC high definition video output/ CVBS standard definition video output	
	<b>Camera Features</b>		
10	Max. IR LEDs Length	20m, Smart IR	
11	Day/Night	Auto(ICR)/B&W/Color	
12	Noise Reduction	3D/2D	
13	OSD Menu	Support	
	<b>Lens</b>		
14	Focal Length	3.6 mm or above	
15	Mount Type	M12	
	<b>General</b>		
16	Power Supply	DC12V±10%	
17	Power Consumption	Max 3.5W	
18	Working Environment	-30°C~+60°C/ Less than 95% RH	
19	Transmission Distance	Over 500m via coaxial cable	
20	Ingress Protection	IP66	
21	Mode	Day/Night	

### COMPLIANCE 32 CHANNEL HD HYBRID DVR

S. No.	Items	Features	Yes/No
	<b>System</b>		
1	Main Processor	Embedded processor	
2	Operating System	Embedded LINUX	
	<b>Video</b>		
3	Input	32 channel, BNC	
4	Standard	HD Analog	1080P/720P HDCVI/AHD Camera
	<b>Audio</b>		
5	Input	4 channel, BNC	
6	Output	1 channel, BNC	
7	Two-way Talk	1 channel Input, 1 channel Output, BNC	
	<b>Display</b>		
8	Interface	2 HDMI, 1 VGA, 1 TV	
9	Resolution	1920×1080, 1280×1024, 1280×720, 1024×768	
10	Display Split	1/4/8/9/16/25/36	
11	Privacy Masking	4 rectangular zones (each camera)	
12	OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording	
	<b>Recording</b>		
13	Video/Audio Compression	H.264/G.711	
14	Record Rate	Main Stream: 720P/960H/D1/HD1/2CIF/CIF(1-25/ 30fps)	
15		Extra Stream CIF/QCIF(1-25/30fps)	
16	Bit Rate	48-4096Kb/s	
17	Record Mode	Manual, Schedule(Regular(Continuous), MD), Stop	
18	Record Interval	1-60 min (default: 60 min), Pre- record: 1-30 sec, Post-record: 10-300 sec	
	<b>Video Detection &amp; Alarm</b>		
19	Trigger Events	Recording, PTZ, Tour, Alarm out, Video Push, Email, FTP, Snapshot, Buzzer & Screen tips	
20	Video Detection	Motion Detection, MD Zones: 396(22×18), Video Loss & Camera Blank	
21	Alarm Input	16 channel	
22	Alarm Output	6 channel	
	<b>Playback &amp; Backup</b>		

23	Sync Playback	1/4/9/16	
24	Search Mode	Time/Date, MD & Exact search	
25	Playback Functions	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom and others	
26	Backup Mode	USB Device/eSATA Device/Internal SATA burner/Network	
<b>Network</b>			
27	Ethernet	RJ-45 port	
28	Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, SNMP, P2P	
29	User Access	128 users or more	
30	Smart Phone	iPhone, iPad, Android, Windows Phone	
<b>Storage</b>			
31	Internal HDD	4 SATA ports(4 HDDs or 3HDDs+1 CD/DVD-RW), up to 16TB	
32	External HDD	1 eSATA port, up to 16TB	
<b>Auxiliary Interface</b>			
33	USB Interface	3 ports (2 Rear), USB2.0	
34	RS232	1 port, For PC communication & Keyboard	
35	RS485	1 port RS485 for PTZ control, 1 port RS422 for Keyboard	
<b>General</b>			
36	Power Supply	AC 100~240 V, 50/60 Hz	
37	Power Consumption	40W(Without HDD)/Standard	
38	Working Environment	-10°C ~+55°C/10%-90%RH	

## COMPLIANCE FOR CCTV MONITORS

S.No.	FEATURES	Yes/No
1.	The monitor should be a high resolution LED	
2.	Monitor shall be for the use of 24/7	
3.	Monitor size 32” as per BOQ	
4.	Composite video and audio inputs.	
5.	Space saving	
6.	Compact design	
7.	PAL and NTSC formats	
8.	Universal power source.	
9.	On-Screen display (OSD) for setup and adjustment	
10.	Independent adjustment of contrast and brightness	
11.	Multiple inputs like VGA, BNC, etc.	

## BOQ (Priced Bill of Quantity)

Name of Work: "Supply, Installation and Commissioning of CCTV System" for  
Central Library, IIT Delhi

(Quote for Unit price)

S. No.	Item Description	Make & model	Unit	Qty	Rate
1.	Supply, installation & commissioning of High Resolution 1.3 mp IR Dome and Bullet HD Camera (with all accessories)	Dome	Nos.	64* (Total camera required)	
		Bullet	Nos.		
2.	Supply, installation & commissioning of HD Hybrid Digital Video Recorder (DVR) 32 Channel with 2 TB CCTV HDD		Nos.	2	
3.	32'' LED Screen		Nos.	2	
4.	6U Rack		Nos.	1	
5.	Supply & laying of video signal cable RG-6		Meter	1	
6.	Supply & laying of Power cable		Meter	1	
7.	Supply & laying of PVC Conduits(25mm, 50mm, 60mm, etc-as per requirement-quote for different size)		Meter	1	
8.	Connectors & BNC		Nos.	1	

*\* Total number of camera required is 64 includes both Dome and Bullet HD Camera depending upon the requirement.*

(Signature of authorized person)

Name : \_\_\_\_\_

Seal of the company

Date\_\_\_\_\_