



SRI VENKATESWARA COLLEGE: DHAULA KUAN: NEW DELHI – 110 021

Dated: 17.02.2020

Tender for the supply & installation of CCTV

Sealed Quotations are invited for supply and installation of new IP CCTV system at ICT Lab(s), Sri Venkateswara College, Dhaula Kuan, New Delhi – 110 021. The specifications are given below:

S.No.	Item/Equipment	Quantity
1	Indoor Dome camera 4 megapixel with 30 Mtr IR range	21
2	Outdoor Bullet camera 4 megapixel with 30 Mtr IR range	3
3	Box cat-6 cable	2
4	24 channel NVR with 2 sata port	1
5	24 port POE switch	1
6	8 port POE switch	1
7	Hard disk 4TB	2
8	24 port jack panel unloaded	1
9	Gang box	24
10	Single face plate	24
11	1 meter patchcord	24
12	9 U Rack	1
13	Installation service charges	One Job
14	Comprehensive AMC for 2 years (after warranty period)	

It is informed that the conditions given below are strictly followed while submitting the tender; otherwise the tender shall be liable for rejection.

Terms & conditions

1. The Quotation should be sent under sealed cover addressed to the “Principal, Sri Venkateswara College, Dhaula Kuan, New Delhi – 110 021” latest by 02nd March, 2020 till 5:00 pm.
2. The title “Quotation - supply and installation of new IP CCTV system at ICT Lab(s)” should be written on the top of the envelope.
3. The sealed Quotation should include a Technical Bid and a Financial Bid in two separate envelopes as per the formats given in Annexure I and Annexure II respectively.
4. The quoted price should be in Indian rupees & inclusive of all taxes and other charges.
5. The quotations received after this deadline & unsealed shall not be entertained under any circumstances whatsoever. In case of postal delay this Institute will not be responsible.
6. Terms and conditions for the tender will be as per Delhi University/Govt. of India guidelines/conventions, or applicable from time to time.
7. Detailed T&C shall be executed with the approved vendor, upon finalization of the process.

8. The bidders are strictly required to attach a copy of GST registration certificate and PAN No. of the firm, otherwise bid/quotation will be deemed rejected.
9. Delivery Period – within 15 days from Purchase order.
10. On inspection, if the material or workmanship is not found as per the specification or any item is found damaged the same shall be rejected. In case of rejection of the materials, no payment will be made for the rejection item.
11. Payment Terms: Payment will be only after satisfactorily delivery / commissioning of material and after inspection by the Sri Venkateswara College, Dhaula Kuan, New Delhi.
12. Quantity: - The quantity of items given in the Quotation is tentative, which may be increased or decreased as per the Institute's requirement. Sri Venkateswara College reserves the right to increase or decrease quantity and / or amount of work. Decision of Quantity of material in the Sri Venkateswara College will be final in this regard.
13. Sri Venkateswara College reserves the right to reject any quotation or part or the whole of inviting quotation process without assigning any reason thereof. Decision of the Sri Venkateswara College will be final in this regard.
14. Interested bidder must visit the site before quoting the price.
15. The firm must have experience of supply, testing & commissioning of CCTV with Govt. Deptt./Public Sector/other organizations. The firm should provide list of Government Ministries/Departments/Other Organizations for which it has orders/contracts, in each of the last 3 years.
16. Late submission of tenders will not be accepted. Tenders by "Telex/Telegram/Fax/E-mail" will not be accepted. Tenders may be submitted by Registered Post, by Hand in Person or by Courier at the address given below.
17. The tender is not transferable.
18. Maf Should be provide by the bidder/system integrator From the OEM For the Particular Hands.
19. Bidder (system integrator) have an average turnover of 5 crore For the last 3 years.
20. bidder (system integrator) should have a similar experience of working in government colleges/organisation shall be provided with price & technical bid.
21. In case of non-compliance with the contract or service is not satisfied, College reserves the right to cancel/rescind/revoke the contract and impose penalty in proportion to damages.
22. All related expenditure like transportation, delivery, tax etc. of all items need to be borne by the vendor. College will not make any payment other than contract price as mentioned in its clause.

The interested bidder may submit a separate sealed envelope for "Technical Bid" as given in Annexure I along with supporting documents and a separate sealed envelope for "Financial Bid" as given in Annexure II in a sealed cover super scribed "Tender for supply and installation of new IP CCTV system at ICT Lab(s)" addressed to The Principal, Sri Venkateswara College, Benito Juarez Road, Dhaula Kuan, New Delhi, Delhi 110021, latest by 02nd March, 2020 till 5:00 pm.

ICT Convenor

Principal

TECHNICAL BID

1.	Name of the Firm	
2.	Address of the Firm	
3.	Registration No.	
4.	Name of the authorized signatory with Designation	
5.	Specimen Signature of the Authorized signatory	
6.	Telephone Number of the authorized signatory and other Telephone Numbers of the Firm	
7.	Details of the Government Ministries /Departments/Organizations/PSU etc. in which the firm is engaged in supply & commissioning of CCTV activities From the Last three years.	
8.	List of copies of relevant documents	
9.	Financial Competence of Firm (Last 3 years) ITR/Financial Statement	
10.	Has the Firm ever been black listed or any client if yes please provide details.	
11.	PAN/TAN no (Photocopy)	

Signature with Seal of the Company/Agency

FINANCIAL BID

[On the letterhead of firm]

To,

The Principal,
Sri Venkateswara College,
Dhaura Kuan, New Delhi.

Dear Sir/Madam,

1. I/We
Submitted the quotation for "supply and installation of new IP CCTV system at ICT Lab(s), Sri Venkateswara College, Dhaura Kuan, New Delhi – 110 021" DUE ON 02.03.2020 05.00 PM.
2. I/We thoroughly examined, understood and accepted terms & conditions given in the enquiry document, failing which my quotation will be rejected out rightly.
3. I/We hereby offer to supply at the following rates.

S.No.	Item/Equipment	Quantity	Unit Price	Total Price
1	Indoor Dome camera 4 megapixel with 30 Mtr IR range	21		
2	Outdoor Bullet camera 4 megapixel with 30 Mtr IR range	3		
3	Box cat-6 cable	2		
4	24 channel NVR with 2 sata port	1		
5	24 port POE switch	1		
6	8 port POE switch	1		
7	Hard disk 4TB	2		
8	24 port jack panel unloaded	1		
9	Gang box	24		
10	Single face plate	24		
11	1 meter patchcord	24		
12	9 U Rack	1		
13	Installation service charges	One Job		
	Total			
16	Cost of Comprehensive AMC for 2 years (after warranty period) (Cost per annum)			

Date:

Place:

(Signature of Authorized Person) _____
(Name) _____

Name of Firm/Company/Agency _____

Phone No. _____

Email: _____

Detailed Technical specifications

Technical Specification of 4MP Bullet camera	
Camera	
Image Sensor	1/3" Progressive Scan Cmos
Min .Illumination	Color :0.01 Lux @(F1.2,AGC on), 0.08 lux @(F1.6,AGC On),0 Lux With IR
Day & Night	IR Cut Filter
Digital Noise Reduction	3D DNR
WDR	120db
3-Axis Adjustment	Pan: 0° to 360°, tilt: 0° to 100°, rotate: 0° to 360°
Focal length	4 mm / 6mm
FOV	4mm: horizontal FOV: 83°, vertical FOV: 45°, diagonal FOV: 99°
	6 mm: horizontal FOV: 51°, vertical FOV: 29°, diagonal FOV: 58°
IR Range	Up To 60m Or better
Video Compression	Main stream: H.265/H.264
	Sub-stream: H.265/H.264/MJPEG
	Third stream: H.265/H.264
Video Bit Rate	256 Kbps to 16 Mbps
Audio Compression (-S)	G.711/G.722.1/G.726/MP2L2/PCM
Audio Bit Rate	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)
Behavior Analysis	Line crossing detection, intrusion detection, unattended baggage detection, object removal
Exception Detection	Scene change detection, audio exception detection
Face Detection Yes	Yes
Region of Interest	1 fixed region for main stream and sub-stream
Max. Resolution	2688X1520
Image Enhancement	BLC/3D DNR/HLC
Image Setting	Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web Browser
Network Storage	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS), ANR
Alarm Trigger	Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error
General Function	One-key reset, anti-flicker, three streams, heartbeat, mirror, password protection, privacy mask watermark, IP address filter
API	ONVIF (PROFILE S, PROFILE G), ISAPI
Audio(-s)	1 input (line in/mic.in), 1 output (line out), terminal block, mono sound
Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port
Alarm (-S)	1 input, 1 output (up to 12 VDC, 30 mA), terminal block
On-board storage	Built-in Micro SD/SDHC/SDXC slot, up to 128 GB
Environment Noise Filtering	Yes
Operating Conditions	-30 °C to +60 °C (-22 °F to +140 °F), Humidity 95% or less (non-condensing)
Power Supply	12 VDC ± 25%, Φ 5.5 mm coaxial power plug
Power Consumption and Current	12 VDC, 0.5A, max. 6W PoE (802.3af, 37V to 57V), 0.2A to 0.1A, max. 7.5W
Protection Level	IP67,
Material	Metal

Technical Specification of 4MP Dome camera

Camera	
Image Sensor	1/3" Progressive Scan Cmos
Min .Illumination	Color :0.01 Lux @(F1.2,AGC on), 0.08 lux @(F1.6,AGC On),0 Lux With IR
Shutter Speed	1/3 s To 1/100,000 s
Day & Night	IR Cut Filter
Digital Noise Reduction	3D DNR
WDR	120db
3-Axis Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°
Lens	
Focal length	4 mm
FOV	4 mm: horizontal FOV: 78°, vertical FOV: 42°, diagonal FOV: 93°
	6 mm: horizontal FOV: 48°, vertical FOV: 27°, diagonal FOV: 54°
IR	
IR Range	Up To 30m Or better
Compression Standard	
Video Compression	Main stream: H.265/H.264
	Sub-stream: H.265/H.264/MJPEG
	Third stream: H.265/H.264
Video Bit Rate	32 Kbps to 16 Mbps
Audio Compression (-S)	G.711/G.722.1/G.726/MP2L2/PCM
Audio Bit Rate	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)
Smart Feature-set	
Behavior Analysis	Line crossing detection, intrusion detection
Face Detection Yes	Yes
Region of Interest	1 fixed region for main stream and sub-stream
Image	
Max. Resolution	2560X1440
Image Enhancement	BLC/3D DNR
Image Setting	Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web Browser
Network	
Network Storage	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS), ANR
Alarm Trigger	Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error
General Function	One-key reset, anti-flicker, three streams, heartbeat, mirror, password protection, privacy mask watermark, IP address filter
API	ONVIF (PROFILE S, PROFILE G), ISAPI
Interface	
Audio(-s)	1 input (line in/mic.in), 1 output (line out), terminal block, mono sound
Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port
Alarm (-S)	1 input, 1 output (up to 12 VDC, 30 mA), terminal block
On-board storage	Built-in Micro SD/SDHC/SDXC slot, up to 128 GB
Audio (-s)	
Environment Noise Filtering	Yes

General	
Operating Conditions	-30 °C to +60 °C (-22 °F to +140 °F), Humidity 95% or less (non-condensing)
Power Supply	12 VDC ± 25%, Φ 5.5 mm coaxial power plug PoE (802.3af, class 3)
Power Consumption and Current	12 VDC, 0.5A, max. 6W PoE (802.3af, 37V to 57V), 0.2A to 0.1A, max. 7.5W
Protection Level	IP67, IK10 TVS 2000V Lightning Protection, Surge Protection and Voltage Transient Protection
Material	Metal

technical Specification of NVR		
NVR		
Features and Functions		
Professional and Reliable		
Dual OS design to ensure high reliability of system running		
HDD hot swap with RAID0, RAID1, RAID5 , RAID 6 and RAID10 storage scheme configurable		
Configurable normal or hot spare working mode to constitute an N+1 hot spare system		
Smart & Pos Function		
Supports multiple VCA (Video Content Analytics) events		
Smart search for the selected area in the video; and smart playback to improve the playback efficiency		
Network & Ethernet Access		
2 Gigabit Ethernet network interfaces		
Video /Audio Input	Ip Video Input	32-ch Up To 12 Mp Resolution
	Two-way audio	1-ch, RCA (2.0 Vp-p, 1 k Ω)
	Incoming bandwidth	320 Mbps or 200 Mbps (when RAID is enabled)
Network	Outgoing bandwidth	256 Mbps, or 200 Mbps (when RAID is enabled)
	Recording resolution	12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF /2CIF/CIF/QCIF
Video/Audio	VGA1 /HDMI1 output resolution	HDMI1: 4K (3840 × 2160)/60Hz, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080p/60Hz, 1600 × 1200/60Hz, 1280 × 1024/60Hz, 1280× 720/60Hz, 1024 × 768/60Hz
		VGA1: 2K (2560 × 1440)/60Hz, 1920 × 1080p/60Hz, 1600 × 1200/60Hz, 1280× 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz
	VGA2 /HDMI2 output resolution	1920 × 1080p/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz
	Audio output	2-ch, RCA (2.0Vp-p, 1 KΩ)
	Decoding format	H.265/H.265+/H.264/H.264+/MPEG4
Decoding	Live view/Playback resolution	12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF
	Synchronous playback	16-ch
Network Management	SATA	8 SATA interface
Hard Disk	E-SATA	1 eSATA interface
	Capacity	Up to 6TB capacity for each HDD

Disk Array	Array type	RAID0, RAID1, RAID5, RAID6, RAID10
	Number of arrays	4
External Interface	Network interface	2, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
	Serial Interface	RS-232; RS-485; Keyboard
	USB interface	Front panel: 2 × USB 2.0; Rear panel: 1 × USB 3.0
	Alarm in/out	16-Apr
	Power Supply	100 to 240 VAC, 50 to 60 Hz
	Max . Power	200w
	Consumption without hard Disk	<_30
	Working Temperature	-10 to +55° C (+14 to +131° F)
	Working Humidity	10 TO 90 %