

कॉलेज ऑफ वोकेशनल स्टडीज
(दिल्ली विश्वविद्यालय)

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(University of Delhi)

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संदर्भ संख्या

Ref. No. CVS/2018/1138

दिनांक

Dated

16.10.2018

**E-TENDER are invited For Supply, Installation, Testing & Commissioning
(SITC) of CCTV Camera & Accessories**

DATE & TIME OF ISSUE OF TENDER DOCUMENT downloaded from website	From 16.10.2018 AT 05.00 p.m.
LAST DATE & TIME FOR SUBMISSION OF TENDER DOCUMENT	14.11.2018 up to 02.00 p.m.
DATE & TIME FOR OPENING OF TENDER DOCUMENT - <i>TECHNICAL/FINANCIAL BID</i>	15.11.2018 at 02.00 p.m.

- The e-Tender Form can be filled up from the e-procurement portal.

The tender shall be accepted under **TWO Bid System**. The interested Service Providers are advised to submit Technical & Financial bids through e-portal of e-procurement website ([Http://www.eprocure.gov.in](http://www.eprocure.gov.in)).

PRINCIPAL

College of Vocational Studies
(University of Delhi)
Sheikh Sarai, Phase-II
New Delhi-110017

CVS/2018/

Date: 16.10.2018

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02	General Terms & Conditions
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Sealed tenders are invited for awarding contract for Supply, Installation, Testing & Commissioning (SITC) of CCTV Camera & Accessories in College. The tender form/ document can also be obtained through website (<https://www.eprocure.gov.in>.)

Note: 1. Tender document can be downloaded from the website www.cvs.edu.in

2. Last date for submission of tenders through online : 14.11.2018 up to 2.00 pm.

3. Opening of bid : 15.11.2018 at 2.00 p.m.

4. Earnest Money Deposit : Rs. 46,000/- in form of DD favouring
"Principal, CVS".

PRINCIPAL



E-TENDER FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING (SITC) OF CCTV SYSTEM IN
COLLEGE OF VOCATIONAL STUDIES

E-PROCUREMENT TENDER NOTICE

E-tenders are invited under **TWO BID SYSTEM (Techno-commercial)** from reputed & eligible agencies through e-procurement for **"Supply, Installation, Testing and Commissioning (SITC) of CCTV System"** in the College of Vocational Studies, University of Delhi.

Notes:

- All details regarding the subject tender are available on our websites www.cvs.edu.in and <https://eprocure.gov.in> Bidders are therefore, requested to visit our websites regularly to keep themselves updated.
- Manual/hardcopy bids will not be accepted.
- For submission of E-Bids, bidders are required to get themselves registered with <http://eprocure.gov.in> . Tender should be submitted before the end date and time of bid submission. Failing which offer will be liable for rejection. Papers related to company details (copies of GST, PAN/GIR registration No and Last three year ITR copies etc.) and product details (Printed product specification sheet and other brochure/ leaflets, etc.) should also be uploaded by bidders along with bids.
- The tender shall remain valid for acceptance for 60 days from the date of opening the Technical Bid of the tender.
- Financial Bid will be opened of only those bidders whose Technical Bid will be qualified during evaluation.

Principal



GENERAL TERMS & CONDITIONS FOR SUPPLY, INSTALLATION, TESTING AND
COMMISSIONING (SITC) OF CCTV SURVEILLANCE SYSTEM AT COLLEGE OF VOCATIONAL
STUDIES , UNIVERSITY OF DELHI, NEW DELHI- 110017.

GENERAL TERMS & CONDITIONS

1. The tender covers the Supply, Installation, Testing and Commissioning (SITC) of CCTV system. The CCTV system will be in operation on 24x7 basis. The Bidder will be responsible for smooth operation and maintenance of the system during the warranty period.
2. The Bidder shall study the specification and satisfy himself thoroughly and shall take full responsibility of the smooth, reliable and safe working of CCTV system operational at user's site at College of Vocational Studies, University of Delhi, New Delhi.
3. The Bidder shall ensure that SITC of the system with all accessories, auxiliaries and any item not covered in the specification but essential for proper installation, operation and maintenance of the CCTV system shall be included and executed by the Bidder.
4. The Bidder shall provide the original DVD/CD of the software's used for operating the system.
5. All equipment shall be designed for smooth, efficient and trouble free operation according to the climate of Delhi. Ambient temperature may take as 50 degree C and humidity of 90% to 15%.
6. In case, where the offer deviates from the technical specification given in tender document, the vendor shall indicate clearly in his offer for the specification proposed by him along with details thereof and the reasons for the deviation.
7. The vendor should also quote their rates for all big and small items/parts which do not come under the work separately otherwise it will be presumed that all the items/parts whether big or small are included within the work and no additional cost of any account will be entertained.
8. Acceptance of the tender shall be communicated to the successful bidder by a formal letter.
9. The vendor shall complete supply, commissioning and testing of the system within 90 days from the date of placement of order.
10. Necessary cabling shall be done using PVC Conduit/Capping casing in professional way. Cameras shall be installed properly using necessary brackets etc. in professional way.
11. All cabling should be properly wired in a concealed structured way/tamper proof and also take care of the building aesthetic look.
12. The vendor shall demonstrate all the features of the equipment claimed by him.

13. The tenderer/bidder is required to ensure the compatibility of individual items with each other in all aspects.
14. There shall be warranty of Two year from the date of completion of supply/work, applicable to all materials used in the job as well as workmanship.
15. Systems equipment installed should be capable enough to record activities clearly that identification of person, vehicle entering the premises is clear.
16. System should be capable of storing 30 days video recording of each and every camera. It should be possible to search camera and its recording in the CCTV control room.
17. Necessary training shall be provided to authorized staff on accessing and retrieving the footage of surveillance cameras.
18. Full system shall be tested for continuous 48 hours. System shall be declared commissioned after successful completion of 48 hours testing and training of the college staff may be required.
19. The vendor shall be responsible for routine and breakdown maintenance of the equipment during warranty period within 24 hours of lodging of complaint.
20. The payment will be released after satisfactory installation, commission and testing of the equipment and report given by the concerned officer.
21. The Successful bidder shall have to furnish, before signing the Contract, a Performance Bank Guarantee equivalent to 10% of the estimated cost of the work in the form of Bank Guarantee from a bank acceptable to College of vocational studies in favour of "Principal, College of Vocational Studies". The Performance Bank Guarantee should remain valid up to a date three month after completion of the guarantee/ warranty period i.e. two years from the completion of work. The said performance bank guarantee shall be released by Principal, College of Vocational Studies.
22. GST or any other statutory tax/duty/levy etc. as applicable should be clearly mentioned in the quotation.
23. The quotation not fulfilling the aforesaid conditions will be summarily rejected and no further correspondence will be entertained.
24. College of Vocational Studies, University of Delhi, New Delhi will reserve the right to accept or reject any or all tenders without assigning any reason thereof.
25. The Supplier will be required to provide test certificate, warranty cards, O&M manual and operating systems. *manual*.

OEM (Original Equipment Manufacturer) / BIDDER CRITERIA:-

1. The tenderer / bidder is required to deposit an earnest money of Rs 46000/- in a sealed cover at the time of submission of bid. The earnest money deposit (EMD) shall be in the form of Demand draft in favour of "Principal, College of Vocational Studies" and payable at New Delhi. No interest on the Earnest money shall be paid. The EMD is liable to be forfeited if tenderer withdraws or impairs or derogates the bid in any respect or manner within the period of validity of the offer.
2. Exemption for EMD/SD: Valid NSIC/MSME/Udyog Aadhaar Registered Firms are exempted from submission of Security Deposit subject to production of documentary evidence.
3. All CCTV hardware products (Model wise) offered in the project should be UL, CE, FCC, RoHS, certified. All systems and components must be in compliance with FCC, CE, UL requirements. All the certificates needs to be submitted along with technical bid.
4. CCTV OEM shall be ISO 9001:2015 certified for at least one year and also ISO 14001:2004 certified for manufacturing process. ISO certificate from OEM to be attached.
5. The OEM should have existence in India for more than 5 years (under Companies Act, 1956/2013) in India. The OEM must have direct presence in India, OEM must have online dedicated CCTV support centre available during working hours and a fully equipped repair and maintenance centre in Delhi/NCR. Bidder to produce documentary proof to establish the eligibility.
6. The bidder should be an authorized reseller or channel partner. The authorization letter from the OEM need to be submitted in original addressed to the undersigned specifically describing this tender details.
7. The bidder must have at least two graduate engineers in his team and they should be associated with the organization since more than two calendar years at the time of opening the bid. An undertaking in this regard must be submitted (Mandatory).
8. The bidder/organization should not have been blacklisted/ debarred by any of the government/ public sector agencies in India. A declaration of fair business practice by the Bidder needs to be submitted.
9. The bidder must have Average financial turnover (annual) of Rs.50 Lakhs (Rupees Fifty Lakhs) during the immediate last three consecutive financial years, duly audited, signed & stamped by a Chartered Accountant.
10. All equipment and materials used shall be standard components that are regularly manufactured and used in the manufacturer's system. And all systems and components shall have been thoroughly tested and proven in actual use.
11. Bidder should enclose copy of work order of executing with same brand in reputed Govt. Deptt./PSU , University or Institution.

12. The bidder has to mention model, make and other specifications certifying along with documentary proof. The firm is required to submit the printed literature/brochure with complete technical specifications of all the items mentioned in Annexure "A" to Annexure "F".
13. Compliance statement for the specifications to be attached; deviation & remarks need to be mentioned clearly.
14. Datasheet to be attached, Demonstration to be given as and when required. Schedule for the same will be informed in advance.
15. The Bidder must have an experience of minimum 05 years for S/I/T/C of CCTV surveillance system as on date. Copies of Similar work order/contracts executed in reputed Govt. Deptt./PSU , University or Institution in support of proof thereof for the contracts executed must be submitted as (i) Single order costing not less than 23 Lacs OR (ii) Two orders costing not less than 15 Lacs.
16. The tenderer must provide Self attested copies of GST, PAN/GIR registration No and Last three year ITR copies at the time of submission of bid. (Mandatory)
17. APPROVED MAKES: SONY, Hikvision, Samsung, Axis .

Annexure "A"

Technical Specification of IR Bullet Camera Lens 3.6mm

Camera	
Image Sensor	2MP CMOS Image Sensor
Signal System	PAL/NTSC
Effective Pixels	1920(H)*1080(V)
Min. illumination	0.01 Lux @ (F1.2,AGC ON),0 Lux with IR
Shutter Time	1/25(1/30)s to 1/50,000s
Lens	3.6mm, Angle of View: 82.2°(3.6mm),
Lens Mount	M12
Day & Night	ICR



Angle Adjustment	Pan: 0 - 360°, Tilt: 0 - 180°, Rotation: 0 - 360°
Synchronization	Internal synchronization
Video Frame Rate	1080p@25fps/1080p@30fps
HD Video Output	1 Analog HD output
S/N Ratio	> 62dB
General	
Operating Conditions	-40 °C – 60 °C (-40 °F – 140 °F), Humidity 90% or less (non-condensing)
Power Supply	12 VDC±15%
Power Consumption	Max. 4W
Protection Level	IP66
IR Range	Up to 20m

Annexure "B"

Technical Specification of IR Bullet Camera Lens 6mm :

Camera	
Image Sensor	2MP CMOS Image Sensor
Signal System	PAL/NTSC

Effective Pixels	1920(H)*1080(V)
Min. illumination	0.01 Lux @ (F1.2,AGC ON),0 Lux with IR
Shutter Time	1/25(1/30)s to 1/50,000s
Lens	6mm
	Angle of View: 54°(6mm)
Lens Mount	M12
Day & Night	ICR
Angle Adjustment	Pan: 0 - 360°, Tilt: 0 - 180°, Rotation: 0 - 360°
Synchronization	Internal synchronization
Video Frame Rate	1080p@25fps/1080p@30fps
HD Video Output	1 Analog HD output
S/N Ratio	> 62dB
General	
Operating Conditions	-40 °C – 60 °C (-40 °F – 140 °F), Humidity 90% or less (non-condensing)
Power Supply	12 VDC±15%
Power Consumption	Max. 4W
Protection Level	IP66

Annexure "C"

Technical Specification of IR Dome Camera Lens 3.6mm:

Camera	
Image Sensor	2MP CMOS Image Sensor
Signal System	PAL/NTSC

Effective Pixels	1920(H)*1080(V)
Min. illumination	0.01 Lux @ (F1.2,AGC ON),0 Lux with IR
Shutter Time	1/25(1/30)s to 1/50,000s
Lens	3.6mm
	Angle of View: 82.2°(3.6mm)
Lens Mount	M12
Day & Night	ICR
Angle Adjustment	Pan: 0 - 360°, Tilt: 0 - 75°, Rotation: 0 - 360°
Synchronization	Internal synchronization
Video Frame Rate	1080p@25fps/1080p@30fps
HD Video Output	1 Analog HD output
S/N Ratio	> 62dB
General	
Operating Conditions	-20 °C – 45 °C (-4 °F – 113 °F), Humidity 90% or less (non-condensing)
Power Supply	12 VDC±15%
Power Consumption	Max. 4W
IR Range	Up to 20m

Annexure " D "

Technical Specification of PTZ Camera :

Parameter	E Series IR turbo HD1080p PTZ Dome Camera
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Camera	Image Sensor	1/3" CMOS
	Max. Image Resolution	1920×1080
	Frame Rate	50Hz:25fps(1920×1080) 60Hz:30fps(1920×1080)
	Min. Illumination	Color: 0.02Lux@(F1.6,AGC ON) B/W: 0.002Lux@(F1.6,AGC ON) 0 lux with IR
	White Balance	Auto / Manual / ATW / Indoor / Outdoor
	AGC	Auto / Manual
	S / N Ratio	≥ 50dB
	3D DNR	Support
	Backlight Compensation	Support
	WDR	Digital WDR
	Shutter Time	PAL: 1-1/10,000s NTSC: 1-1/10,000s
	Day & Night	IR Cut Filter
	Digital Zoom	16x
	Privacy Mask	8 privacy masks programmable; a maximum of 8 zones can be masked simultaneously on the same video screen
Focus Model	Auto / Semiautomatic / Manual	
Lens	Focal Length	4-120mm, 30X
	Zoom Speed	Approx.3.0s(Optical Wide-Tele)
	Angle of View	58-1.7 degree(Wide-Tele)
	Min. Working Distance	10-1500mm (Wide-Tele)
Pan and Tilt	Aperture	F1.6-F4.4
	Pan Range	360° endless
Tilt	Pan Speed	Pan Manual Speed: 0.1°-160°/s, Pan Preset Speed: 240°/s
	Tilt Range	-15°-90° (Auto Flip)
	Tilt Speed	Tilt Manual Speed: 0.1°-120°/s, Tilt Preset Speed: 200°/s

	Proportional Zoom	Rotation speed can be adjusted automatically according to zoom multiples
	Number of Preset	256
	Patrol	8 patrols, up to 32 presets per patrol
	Pattern	4 patterns, with the total recording time not less than 10 minutes
	Power-off Memory	Support
	Park Action	Preset / Patrol / Pattern / Pan scan / Tilt scan / Frame Scan / Random scan / Panorama scan
	PTZ Position Display	On / Off
	Preset Freezing	Support
	Scheduled Task	Preset / Patrol / Pattern / Pan scan / Tilt scan / Frame Scan / Random scan / Panorama scan
	RS-485 communication Diagnosis	Support
Infrared	IR Distance	120m
	IR Intensity	Automatically adjusted, depending on the zoom ratio
Input/ Output	Monitor Output	1 turbo HD1080p output
	RS-485 Interface	Half-duplex mode Self-adaptive
	UTC function	*Need UTC controller if DVR don't support UTC function
General	Menu Language	English, Chinese
	Power	24VAC(for -A model) Max. 30W(IR: 9W, Heater: 6W)
	Working Temperature	-30 °C-65°C(-22°F-149°F)(outdoor dome)
	Humidity	90% or less
	Protection Level	IP66 standard TVS 4,000V lightning protection, surge protection and voltage transient protection

	Mounting	Various mounting modes optional
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Annexure " E"
Technical Specification of 16 Channel DVR

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Video/Audio input	Video compression	H.264
	Video input	16-ch BNC interface (1.0Vp-p, 75 Ω), supporting coaxitron connection
	Supported HDTV input	1080p/25Hz, 1080p/30Hz, 720p/25Hz, 720p/30Hz, 720P/50Hz, 720p/60Hz
	Supported AHD input	720p/25Hz, 720p/30Hz
	CVBS input	Support
	IP video input	2-ch Up to 2.0MP resolution
	Audio compression	G.711u
	Audio input	4-ch, RCA (2.0 Vp-p, 1 KΩ)
	Video/Audio output	CVBS output
HDMI/VGA output		1-ch, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60Hz, 1024 × 768/60 Hz
Encoding resolution		When 1080p Lite mode not enabled: 1080p(non-real-time)/720p/VGA/WD1/4CIF/CIF; When 1080p Lite mode enabled: 1080p lite/720p lite/VGA/WD1/4CIF/CIF
Frame rate		Main stream: 1/16 fps to real time frame rate Sub-stream: WD1/4CIF@12fps/2CIF (non-real-time); CIF/QVGA/QCIF (real time)
Video bit rate		32 Kbps to 6 Mbps
Audio output		1-ch, RCA (Linear, 1 KΩ)
Audio bit rate		64 Kbps
Dual-stream		Support;
Stream type		Video, Video & Audio
Network management	Synchronous playback	16-ch
	Remote connections	128
Hard disk	Network protocols	TCP/IP, PPPoE, DHCP, EZVIZ Cloud P2P, DNS, DDNS, NTP, SADP, NF5, iSCSI, UPnP™, HTTPS
	SATA	2 SATA interfaces
External interface	Capacity	Up to 6TB capacity
	Two-way audio input	1-ch, RCA (2.0 Vp-p, 1 KΩ) (using the audio input)

	Network interface	1, RJ45 10M/100M/1000M self-adaptive Ethernet interface
	USB interface	1 USB 2.0 on the front panel 1 USB 3.0 on the rear panel
	Serial interface	1; RS-485 serial interface, half-duplex
General	Power supply	12 VDC
	Consumption (without HDD)	≤ 30W
	Working temperature	-10 °C to +55 °C (14 °F to 131 °F)
	Working humidity	10% to 90%
Video/Audio input	Video compression	H.264

Annexure " F "

Technical Specification of 8 Channel DVR

	Video input	8-ch BNC interface (1.0Vp-p, 75 Ω), supporting coaxitron connection
	Supported HDTVI input	1080p/25Hz, 1080p/30Hz, 720p/25Hz, 720p/30Hz, 720P/50Hz, 720p/60Hz
	Supported AHD input	720p/25Hz, 720p/30Hz
	CVBS input	Support
	IP video input	2-ch Up to 2.0MP resolution
	Audio compression	G.711u
	Audio input	4-ch, RCA (2.0 Vp-p, 1 KΩ)
Video/Audio output	CVBS output	Support
	HDMI/VGA output	1-ch, 1920 × 1080/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60Hz, 1024 × 768/60 Hz
	Encoding resolution	When 1080p Lite mode not enabled: 1080p(non-real-time)/720p/VGA/WD1/4CIF/CIF; When 1080p Lite mode enabled: 1080p lite/720p lite/VGA/WD1/4CIF/CIF
	Frame rate	Main stream: 1/16 fps to real time frame rate
		Sub-stream: WD1/4CIF@12fps/2CIF (non-real-time); CIF/QVGA/QCIF (real time)
	Video bit rate	32 Kbps to 6 Mbps
	Audio output	1-ch, RCA (Linear, 1 KΩ)
	Audio bit rate	64 Kbps
	Dual-stream	Support;
Stream type	Video, Video & Audio	
Synchronous playback	8-ch	
Network management	Remote connections	128
	Network protocols	TCP/IP, PPPoE, DHCP, EZVIZ Cloud P2P, DNS, DDNS, NTP, SADP, NFS, iSCSI, UPnP™, HTTPS
Hard disk	SATA	2 SATA interfaces
	Capacity	Up to 6TB capacity
External interface	Two-way audio input	1-ch, RCA (2.0 Vp-p, 1 KΩ) (using the audio input)
	Network interface	1, RJ45 10M/100M self-adaptive Ethernet interface

	USB interface	2 × USB 2.0
	Serial interface	1; RS-485 serial interface, half-duplex
General	Power supply	12 VDC
	Consumption (without HDD)	≤ 20W
	Working temperature	-10 °C to +55 °C (14 °F to 131 °F)
	Working humidity	10% to 90%

Central Monitoring software:

Client Software is a video management software. It uses distributed structure to manage all devices. It includes monitoring, alarm, and record and device management. With different modules and their collocation, it can provide many solutions for different supervisory places, medium or small scale. It is a steady and reliable system with functions like real-time monitoring, video record and search, file backup, video wall. Etc.

It should have below features:-

- Multiple window-division display modes, and multi-screen in full-screen display;
- Picture capture and real-time recording in preview mode;
- Digital Zoom;
- Manage by group;
- Multiple cycling preview;
- Dynamic adjustment of brightness, contrast, saturation and hue parameter;
- Manage files that are captured or recorded;
- Switch between preview and playback;
- Voice talk;
- Display status of supervisory place;
- Switch interfaces from preview to parameters configuration;
- Full-functional remote PTZ and lens control;
- 3D position;
- Set the position of preset and call preset;
- Flexible patrol and pattern;
- Graphically recording schedule configuration;
- Variety of recording type;
- Recording schedule template setting;
- Distributed PC NVR deployment and management;
- Pre-allocate hard disk for recording;
- Event record;
- Search files by channel, time and event;
- Fast forward play and single frame play;
- Locate with time line exactly;
- Multi-screen playback simultaneously(Only for event playback);

- Capture pictures when playback
- Download data when playback;
- Edit playback data when playback;
- Volume control during playback;
- Add, remove, modify device and parameters configuration;
- Add, remove, modify and configure servers;
- Support DVR/DVS/IPC/IP Dome/Decoder/NVR;
- Management detail to each channel;
- Search and display on-line device;
- Add device by domain name and USER management.

PC -
M

Technical Bid Check List

S.No.	Qualification Criteria	Yes / No	Page No.
1	Demand Draft of EMD is submitted.		
2	All the UL, CE, FCC and ROHS certificates are submitted along with technical bid.		
3	ISO 9001:2015 and ISO 14001:2004 certificates of OEM are attached.		
4	Documents stating that The OEM has existence in India for more than 5 years (under Companies Act, 1956/2013) in India and online dedicated CCTV support center available during working hours and a fully equipped repair and maintenance center in Delhi/NCR.		
5	CMMI certification		
6	Authorization letter from the OEM in the name of the bidder addressed to the Undersigned specifically describing this tender details is attached.		
7	An undertaking of at least two graduate engineers in the team associated with the organization since more than two calendar years at the time of opening the bid is attached.		
8	Declaration of fair business practice is submitted.		
9	Turnover Certificate as per Term & Conditions of Tender		
10	Printed literature/brochure with complete technical specifications of all the items mentioned in Annexure "A" to Annexure "F" is submitted.		
11	Compliance statement for the specifications is attached with deviation & remarks mentioned clearly.		
12	Copy of work order of executing with same brand in reputed Govt. Deptt./PSU , University or Institution.		
13	Bidder should enclose copy of Similar work order/contracts of executing in reputed Govt. Deptt./PSU , University or Institution in support of proof thereof for the contracts executed must be submitted as (i) Single order costing not less than 23 Lacs OR (ii) Two orders costing not less than 15 Lacs.		
14	Self attested copies of GST, PAN/GIR registration No and Last three year ITR copies is submitted.		
15	List of Make & Models offered is attached.		
16	Signed copy of complete original tender in proper order with all corrigenda is submitted.		
17	Undertaking for Acceptance of General Terms and Conditions of Tender is submitted.		
18	Bank detail of bidder for E-payment is submitted.		
19	Financial Bid is submitted		

FINANCIAL BID FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING (SITC) OF CCTV SURVEILLANCE SYSTEM AT COLLEGE OF VOCATIONAL STUDIES, UNIVERSITY OF DELHI.

Sl No	Description of work	Quantity	Unit	RPU	Updated Cost
1	IR Bullet Camera Lens 3.6mm - As per annexure "A"	10	Nos.		
2	IR Bullet Camera Lens 6mm - As per annexure "B"	9	Nos.		
3	IR Dome Camera Lens 3.6mm - As per annexure "C"	40	Nos.		
4	PTZ Camera - As per annexure "D"	1	Nos.		
5	HD DVR 16 Channel - As per annexure "E"	3	Nos.		
6	HD DVR 8 Channel - As per annexure "F"	3	Nos.		
7	Mounting of PTZ	1	Nos.		
8	SMPS of PTZ	1	Nos.		
9	4 TB Surveillance HDD	9	Nos.		
10	4 U Rack	6	Nos.		
11	Stand for Outdoor Cameras	19	Nos.		
12	Stand for Indoor Cameras	40	Nos.		
13	Power Supply - 3 Amp - (Approximate) - Billed will be as per actual usage	59	Nos.		
14	Power Supply - 5 Amp	8	Nos.		
15	IP66 Junction Boxes - (Approximate) - Billed will be as per actual usage	60	Nos.		
16	2 Core copper Power Wire - (Approximate) - Billed will be as per actual usage	2500	Mtr		
17	RG6 Video Cable - Only Copper - (Approximate) - Billed will be as per actual usage	6000	Mtr		
18	(3+1) Video Cable - Only Copper - (Approximate) - Billed will be as per actual usage	2000	Mtr		
19	CAT6 LAN Cable - Only Copper - (Approximate) - Billed will be as per actual usage	1000	Mtr		
20	VGA Cable	30	Mtr		
21	PVC pipe, conduit & baton with accessories - (Approximate) - Billed will be as per actual usage	4000	Mtr		
22	Supply and installation of BNC	120	Nos.		
23	DC Connectors	60	Nos.		
24	RJ Connectors - (Approximate) - Billed will be as per actual usage	4	Nos.		
25	2KVA (24 VDC) Offline UPS Single Phase Input with Battery Backup approx. 2 hour	1	Nos.		
26	32" LED Monitor Make: Panasonic	3	Nos.		
27	19" LED Monitor Make : LG	3	Nos.		

28	Supply and erection of steel tubular pole for CCTV , 6mtr long , 4 inch dia, duly fabricated with MS plate and required number of holes to pass on the CCTV cables in cement concrete 1:36 (1 Cement ; 3 coarse sand ; 6 graded stone aggregate 20mm nominal size), foundation including excavation and refilling etc. as required with junction box to complete work as required at site.	1	Nos.		
29	Digging of trench for laying of CCTV cables and filling with material - (Approximate) - Billed will be as per actual usage	300	Nos.		
30	Audio Chip For Camera	2	Nos.		
31	Programming, Testing & Commissioning of all equipment complete arrangement for the systems	60	Job Work		
32	Shifting of Existing 32Nos. Camera, and 2nos. DVR From Principal Room To Committee Room	1	Job Work		
33	Total Amount Without GST				
34	GST as Applicable				
35	G. Total With GST				

