



तेजपुर विश्वविद्यालय / TEZPUR UNIVERSITY

(केंद्रीय विश्वविद्यालय / A Central University)

- कुलाध्यक्ष का सर्वोत्तम विश्वविद्यालय पुरस्कार, 2016 और एनआईआरएफ भारत रैंकिंग 2016: नं. 05
- Visitor's Best University Award, 2016 and NIRF India Ranking 2016: No. 05

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तेजपुर-784028 :: असम / TEZPUR-784028 :: ASSAM

SHORT QUOTATION NOTICE

TU/11-24/Pur/Qtn/2016-17/4822 dated:-14.02.2017.

Sealed quotations are invited from reputed manufacturers/authorized dealers/vendors for supply and installation of CCTV cameras required for Tezpur University.

List of Items with Specifications:

CCTV Specifications		
1	2 MP Bullet Camera	
	<i>Parameter</i>	<i>Minimum Desired Specifications</i>
	Image Sensor	2MP CMOS Image Sensor
	Pixels	1920(H)*1080(V)
	Resolution	2 MP
	Min. Illumination	0.01 Lux @ (F1.2,AGC ON),0 Lux with IR
	S/N Ratio	≥ 48dB
	Lens	3.6 mm
	White Balance (AWB)	Auto
	Gain Control (AGC)	Auto
	Back Light Compensation	Auto
	IR	12 LEDs, Upto 20 Mtrs
	Video Frame Rate	1080p@25fps/1080p@30fps
	Power Supply	DC 12V ± 5%
	Power Consumption	<5W
	IP Rating	IP66 Rated Enclosure
	Operating Temperature	-40 °C – 60 °C (-40 °F – 140 °F), Humidity 90% or less (non-condensing)
	Certifications	CE, FCC
2	2 MP Dome Camera	
	<i>Parameter</i>	<i>Minimum Desired Specifications</i>
	Image Sensor	2MP CMOS Image Sensor
	Pixels	1920(H)*1080(V)
	Resolution	2 MP
	Min. Illumination	0.01 Lux @ (F1.2,AGC ON),0 Lux with IR
	S/N Ratio	≥ 48dB
	Lens	3.6 mm
	White Balance (AWB)	Auto
	Gain Control (AGC)	Auto
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	Certifications	CE, FCC
3	16 CHANNEL 1080p Digital Video Recorder (DVR)	
	<i>Parameter</i>	<i>Minimum Desired Specifications</i>
	Operating System	Embedded LINUX
	System Resources	Pentaplex function: live, recording, playback, backup & remote access
	Control Devices	Front panel, USB mouse
	Video Input	BNC interface (1.0Vp-p, 75 Ω), supporting coaxitron connection
	Video Output	1 HDMI, 1 VGA, 1 TV, 1 Spot, BNC(1.0Vp-p, 75Ω)
	Video Standard	NTSC(525Line, 60f/s), PAL(625Line, 50f/s)
	Compression	H.264
	Video Resolution	1920×1080, 1280×1024, 1280×720, 1024×768, 800×600
	Video Recording	D1/4CIF@1~25/30fps(704×576/704×480) HD1@1~25/30fps(352×576/352×480) 2CIF@1~25/30fps (704×288/704×240) CIF@1~25/30fps(352×288/352×240) QCIF@1~25/30fps(176×144/176×120)
	Video Display Split	3 (/)8
	Privacy Masking	4 self-defined four-sided zones for privacy masking for each camera
	Audio Input	1 channel, RCA(200-2800mV, 30KΩ)
	Bi-directional Talk Input	1 channel Input, BNC(200-2800mV, 30KΩ)
	Audio Output	1 channel, BNC(200-3000mV, 5KΩ)
	Hard Disk	2 SATA ports, each port supporting Up to 6TB capacity
	Surveillance HDD Mgmt	Hard disk hibernation technology, HDD fault alarm
	Recording Mode	Manual, Scheduled, Motion Based [Regular(Continuous)]
	Network	10M / 100M / 1000M Auto-sensing Ethernet interface
4	Storage	
	<i>Parameter</i>	<i>Minimum Desired Specifications</i>
	Hard Disk Drive(HDD)	SATA 7.2K HDD - 4TB Capacity (Preferred Make: Seagate / Western Digital)
5	16 Cameras Power Supply	
	<i>Parameter</i>	<i>Minimum Desired Specifications</i>
	General	1.Stabilized Oupptut & Low Interference 2.Surge Protection , Over Temperature, Current, Voltage & Load Protection 3.High efficiency & low energy Consumption 4.Individual output with Reusable Fuse 5. Short Circuit Auto Restart 6.Highly Intergrated SMPS Switcher I.C Design 7.Low Ripple Voltage(mV P-P):<5%
	Application	1. 16 Channel Security Camera Power Supply 2. Power LED Monitor for individual camera channel 3. Individual Camera Drive
6	Cable (Roll of 90 Mtrs)	
	<i>Parameter</i>	<i>Minimum Desired Specifications</i>
	Inner Conductor Specifications	



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	Material	Solid Bare Copper
	Diameter	0.80mm Nom. (20 AWG)
	Dielectric Material	Gas injected Physical foam polyethylene
	Diameter	3.55mm Nom.
	<u>Shield Specifications</u>	
	1st Shield	Bonded Aluminum Tape
	2nd Shield	Aluminium Alloy Braid
	Coverage	Nom. 60%
	<u>Jacket Specifications</u>	
	Material	PVC
	Diameter	5.60mm Approx.
	Bending Radius	65mm Min.
	<u>Electrical Specifications</u>	
	Inner Conductor DC Resistance	Max. 3.55Ohm/Km at 20 Degree C
	Capacitance (Nom.)	53.0pF/m
	Characteristic Impedence	75 ± 3 ohm
	Structural Return Loss	Min. 15 dB @ 1-1000MHz
	Nominal Velocity Ratio	85%
	<u>3 Cores Specifications</u>	
	Conductor	16 x 0.20mm bare annealed copper
	Insulation	PVC, Type A Grade conforming to IS 5831
	Diameter	2.00mm Nom.
	Colour Codes	Yellow, Blue, Red
	Overall Jacket	PVC Type ST1 Grade Conformaing to IS 5831
	Overall Diameter	9.50mm
7	BNC Connector	
	<i>Parameter</i>	<i>Minimum Desired Specifications</i>
	To comply with the above cable and camera input specifications	
8	Power Jack	
	<i>Parameter</i>	<i>Minimum Desired Specifications</i>
	To comply with the above cable and camera power input specifications	
9	22" LED HD Monitor	
	<i>Parameter</i>	<i>Minimum Desired Specifications</i>
	Screen size	21.5 (54.61 cms)
	Resolution	1920 x 1080
	Brightness (nit)	200 nits
	Response Time(ms)	5ms
	Viewing Angle	90/65
	Color Depth (No. of Colors)	16.7M
	Pixel Pitch(mm)	0.25 x 0.25
	Surface Treatment	Anti - Glare
	Auto Resolution	Support should be available



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	Wall Mount (VESA)	Should be available (75 x 75)
	D-Sub	Should be available
	HDMI	Should be available
	LED color	White
	Power Type	External Power Adapter
	Power Usage	18 W
	Power Usage while S/W Off	Should be below 0.3 W
10	Cable Laying Service	
	<i>Parameter</i>	
	Laying of CCTV cable using 19mm PVC Conduit with Accessories [Should comply to ISI Standards]. The installation has to be carried out by qualified technical personnel without damaging the interiors and aesthetics of the building/room. To be quoted in per unit meter .	
11	Installation Job	
	<i>Parameter</i>	
A	Full Installation job of CCTV Solution with 16 Camera	
B	Full Installation job of CCTV Solution with 8 Camera	
12	Terms & Conditions	
a	The installation job has to be carried out by qualified technical personnel without damaging the interiors and aesthetics of the building.	
b	All cameras have to properly mounted on Ceilings/Walls as per requirement of the University Officials.	
c	All camera positions have to be properly documented and numbered and a layout map have to be provided showing camera positions.	
d	Monitor has to be properly wall fixed with appropriate mountings.	
e	All cables should be tangle free and should be properly marked and should be easily identifiable .	
f	All CCTV cables/BNC connectors/ Power jacks/etc. have to be properly terminated, crimped and sealed . No loose connectors/jacks will be acceptable.	
g	Brief Orientation of the working procedure and troubleshooting has to be provided to the University officials.	
h	All devices i.e. DVR/ HDD/ Camera/ Power Supply/ Monitor should carry one year replacement warranty .	

GENERAL TERMS & CONDITIONS:

1. No separate tender paper will be issued from the office; one should only download the specifications/List from the website.
2. **The rates should be quoted on FOR Tezpur University, Napaam basis.**
3. *Quotations should be accompanied by i)A non refundable application (quotation) fee of ₹.500.00 (Rupees Five Hundred) only have to be paid only by Demand Draft drawn in favour of Registrar, Tezpur University payable at Tezpur.*
4. The rates should be exclusive of taxes and applicable tax % should be clearly indicated.
5. Quoted rates should be valid for at least one year.
6. The rates should be quoted along with supporting documents of specifications and technical features and list of users.
7. No Advance payment will be made.
8. The warranty of the items should be provided as per specification sheet.
9. Payment will be made after receipt of materials at site in full and in good condition.
10. In case of cables, the supplier shall submit the companies cable Test Report along with the Bill. Inspection from University's end is necessary in case of bulk supply of cables.
11. Dealership certificate from the manufacturers is required to be submitted along with the quotation.



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12. The University reserves the right to accept or reject any or all the quotations without assigning any reason.
 13. Apart from the above terms and conditions the University has the right to include any other terms and conditions as and when felt necessary.
 14. **Quotation should be submitted in the DROP BOX placed in the reception of the Administrative Building of the University on or before 07.03.2017. If posted/couriered, should reach on or before 07.03.2017 addressed to "The Joint Registrar, Tezpur University". The Quotation Notice No. and date should be clearly superscribed in the the envelope/packet containing the quotation**

Joint Registrar

Tezpur University

Memo No. TU/11-24/Pur/Qtn/2016-174822-A

dated: 14.02.2017

Copy for information to:-

1. Webmaster, Tezpur University for uploading the notice in the website.
2. File.

Joint Registrar