

COTTON UNIVERSITY

Tender for

Supply, Installation, Testing and Commissioning (SITC) of the Audio Visual and Video conferencing System in the conference room of the MCB building of Cotton University

Price Bid

NIT No: 01 of 2020-2021 Dtd. 01.06.2020

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PRICE BID

SUMMARY

			C	В	A	Part
Total after rebate	Rebate, if any%	Total (A + B + C)	Live Streaming and Recording	Video conferencing system	Aud o visual system	Work
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Date:

Signature of the bidder

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Note: In the rebate column, the bidder may give rebate, if he intends to. Otherwise amount in rebate column shall be shown as "nil".

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PRICE BID

Bill of quantities

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Full Range 6" Ceiling Speaker:	commissioning of Audio equipment, Compact	Supplying installation, testing, programming and	Selection	of Remote Control for Volume and Source	Supply, Installation, Testing and Commissioning	0.1 dB) or better	Frequency Response 20 Hz to 20 kHz (+0.3 dB/-	kHz or better	Dynamic Range > 105 dB A-weighted 20 Hz - 20	low impedance line level outputs or better	conferencing or better 6 electronically balanced	Cancellation (AEC) for telephone and video	8 Channels of wide band Acoustic Echo	Acoustic Echo Cancellation:	Configurable DSP, Audio Networking and	of Advanced Digital Audio Processor with	Supply, Installation, Testing and Commissioning	mV/Pa or better	Dynamic range 111 dB (A) or better Sensitivity 10	Max. sound pressure level 140 dB or better	Response Of 40 Hz - 20 kHz or better:	LED ring for status indication: Frequency	toggle ON/OFF, permanent on) and A Bi-color	Programmable Microphone Button (PTT, PTM,	of On-table Boundary Layer Microphone With	Supply, Installation, Testing and Commissioning	A. Audio visual system		Item description
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Output) 58 dB (without Pad), Maximum Output	Max Gain: 18	120 Ohms	Aux, Type: Euroblock Connector, Balanced,	1 kHz, 22 Hz to 22 kHz; Outputs Out: L/Out R/	CommonMode Rejection Ratio: (CMRR) 70 dB @	Pad: -20 dB, Crosstalk: -63 dB @ 1 kHz,	Maximum Gain: 40 dB	Maximum Input Level: +12 dBu (with Pad),	Unbalanced,	Impedance: 5 kOhms Balanced, 2.5 kOhms	Inputs 1-6: Euroblock Connector, Ealanced,	Remote Control and Link Ports:	Channel 3- Bus Mic/Line Zone Mixer with	Supply and Installation of Professional 8-	noise 100dB	Input sensitivity OdBu or 4 / 12 dBu Signal-to-	Fequency Response 20 Hz – 20 kHz or better	Light Weight 4-Channel Power or better	into 8 Ohms or $4 \times 100 \text{ W}$ @ $4-8 \Omega$ or better	Power 4 x 75 Watts into 4 Ohms; 4 x 50 Watts	Amplifier:	commissioning of Professional 310-Watt	llation, testing, program	40 W 100 V: 5 W, 10 W, 20 W, 40 W or better	Transformer Taps 70 V: 2.5 W, 5 W, 10 W, 20 W,	Maximum SPL 103 dB Average or better	Nominal Impedance 6 /8 ohms or better	90 degrees conical Coverage or better	Sensitivity (SPL / 1 W @ 1 m) 87 dB SPL or better	Frequency Range (-10 dB) 70 Hz - 19 kHz or better	Response (+/-3 dB) 80 Hz - 17 kHz or better	UL1480,UL2043 certified or better Frequency	40w to 60 W RMS Power or better
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Supplying installation, testing, programming and	300 in), 16:10 aspect ratio or better	Screen size (diagonal) (mm):- 0.76 - 7.62 m (30-	:1), F = 1.60-2.12, f = 15.30- 24.64 mm on better	Lens 1.6 x Manual zoom (throw ratio 1.09-1.77	6,912,000 pixels or better	Pixels 2,304,000 (1920 x 1200) x 3, total of	better	Display Method Transparent (x 3, R/G/B) or	(16:10 aspect ratio)	LCD Panel size (mm) 16 mm (0.64 inch) diagonal	Technology: Laser or better	Resolution: 1920 x 1200 pixels or better	Laser Projector:	commissioning of 4500 lumens, WUKGA LCD	Supplying installation, testing, programming and	Input sensitivity 1.5 mV / Pa or better	or better	Microphone Sensitivity-< 3 pV at 52 dB(4)rms S/N	(-3 dB) or better	Receivers AF frequency response 50 to _6.000 Hz	SET:	commissioning of Audio equipment AVALIER	Supplying installation, testing, programming and	16,000 Hz (-3 dB) or better	Receivers AF frequency response Receiver: 50 to	dB, switchable or better	Input sensitivity 1.5 mV / Pa, Line / Mic level 20	Sensitivity < 30 at 52 dB(A)rms S/N or better	commissioning of Audio equipment VOCAL SET	Supplying installation, testing, program ning and	dBu, A-Weighted	dB @ 1 kHz, Noise (All Level Controls Down): -105	
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Supply, Installation, Testing and Comm ssioning of 8- Port HDMI Switch: Video Input: Interfaces 8 x HDMI Type A Female Black) or better Impedance 100 Ohm or better Max. Distance 1.8 m or better Video Output: Interfaces 1 x HDM Type A Female (Black) or better	or better Two Unswitched AC Outputs, One HDMI or better	One Female 15pin HD Connector c better 3.5mm Mini Stereo Audio Jack or better Two CAT R145 Network/Data/Phone Connectors	Easy Access To Connectors Durable Inematic Movement and Mechanical Latching Mechanism	Supply, Installation, Testing and Commissioning of of Popup Box:	Supply and Installation of Projector Ceiling Mount Kit	Supply and Installation of 8X5 Feet Format Motorized Projection Screen with Remote control	Output resolution up to 1080p or better Connected users up to 64 or better	Android 4.1 and above iOS 9 and above	macOS X 10.9 and above Chromebook OS 74 and above	system Windows 7, 8, 10 and above
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A VIVIEW		(Red/White) or better	Audio Output 1 x HDMI Type A Female (Black); 1 x	Max. Resolution Up to 1920 x 1080 or better	better	HDMI (3D, Deep Color) , HDCP Compazible or	Max. Pixel Clock 225. MHz or better Compliance	Lane) or better	Video: Max. Data Rate 6.75 Gps (2.25 Gpps Per	impedance 100 Ohm or better	(Black) or better	Video Output: Interfaces 1 x HDMI Type A Female	Impedance 100 Ohm or better	(Black) or better	Video Input: Interfaces 1 x HDMI Type A Female	of HDMI Repeater Plus Audio De-embedder:	Supply, Installation, Testing and Commissioning	Control: No or better	19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow	(Black), Baud Rate and Protocol: Baud Rate:	Control RS-232 Connector: 1 x DB-9 Female	Output 1 x HDMI Type A Female (Black) or better	Audio Input 8 x HDMI Type A Female (Black),	Max. Distance Up to 15 m or better	Max. Resolution Up to 1080p or better	Consumer Electronics Control (CEC) or better,	HDMI (3D, Deep Color) , HDCP Compatible ,	Max. Pixel Clock 225 MHz or better Compliance	Lane) 14 or better	Video: Max. Data Rate 6.75 Gbps (2.25 Gbps Per	Impedance 100 Ohm or better
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Supply and installation of 8 Core Audio Snake Cable	Supply and Installation of HDMI to HDMI Cables of Length 3 Mtr	of Length 1 Mtr	Supply and Installation of HDMI to HDMI Cables	of Length 10 Mtr	Singly and installation of upon to upon of the plant of t	Supply and Installation of HDMI to HDMI Cables of Length 15 M	Batteries and MS Battery Rack	Isolation Transformer including 16 Nos 28AH	Supply & Installation of 6KVA Online UPS with	Supply and Installation of PVC Conduits	Amphenol/ Neutrik	XLR, RCA, Speakon, EP Jack, Mono Jack etc	Supply and Installation of Audio Connectors like	Supply and Installation of Audio Signal Cable	Supply and Installation of Speaker Cable	Exhaust Fan	Equipment Rack with castor wheels, PDU and	Supply and Installation of 17U Floor Mounted	@ 30Hz (4:4:4) or better	2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160	2910 Cat6) 4K supported: 4096 x 2160 / 3840 x	1080p@60m (Cat Se/6) / 70m (Cat 6a/ATEN 2L-	Se/6) / 40m (Cat 6a/ATEN 2L-2910 Cat6);	Max. Resolutions / Distance Up to 4K@35m (Cat	Compatible, HDMI (3D, Deep Color, 4K) or better	Compliance HDMI (3D, Deep Color, 4K) HDCP	Pixel Clock 340 MHz 340 MHz or better	lane) 10.2Gbps (3.4Gbps per lane) or better Max.	Video Max. Data Rate 10.2Gbps (3.4Gbps per	Class B):
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Supply, Installation, Testing and Commissioning of 65" LED Display: Screen Size (Diagonal) / Aspect ratio:- 165.1 cm / 16:9 or better Panel Type:- IPS Panel / ID- LED or better Effective Display Area (W x H):- 142.85 cm x 80.35 cm or better Resolution (H x V):- 3840 x 2160 pixels or better Brightness:- 500 cd/ni or better Viewing Angle (Horizontal/Vertical):- 178° / 178° or better Response time:- 6ms (G to G) or better Supply and Installation of Video Conference System: Video up to: 1080p , 720p or better Data up to: 1080p / WUXGA 30fps or better Full band audio Dual screen support 12 Mbps bandwidth Support or better H.264,H.263++ and other video standards or better Full HD camera with pan, tilt and zoom features Digital Mic array with automatic echo cancellation and noise suppression and speakers with 1 (One) year or better 3 Supplying installation, testing, programming and commissioning of Audio equipment, Compact 2 way full range surface-mount loudspeakers with line transformer: Dual 5" LF driver, dual 1"HF soft dome driver or better	Total for A Auc
Supply, Installation, Test of 65" LED Display: Screen Size (Diagonal) / / 16:9 or better Panel Type:- IPS Pane Effective Display Area (W cm or better Resolution (H x V):- 3840 Brightness:- 500 cd/ni or Viewing Angle (Horizonta or better Response time:- 6ms (G t Supply and Installation System: Video up to: 1080p , 720p Data up to: 1080p / WU) band audio Dual screbandwidth Support or better Full HD camera with pan, Digital Mic array v cancellation and noise su with 1 (One) year or bettat commissioning of Audio way full range surface-m line transformer: Dual 5" LF driver, dual 1 better	al for A Auc
Aspect ratio:- 165.1 cm / Aspect ratio:- 165.1 cm / I / ID- LED or better x H):- 142.85 cm x 80.35 x 2160 pixels or better better of Video Conference of video Conference or better (GA 30fps or better Full en support 12 Mbps er video standards or tilt and zoom features with automatic echo appression and speakers er sting, programming and equipment, Compact 2 ount loudspeakers with "HF soft dome driver or	Total for A Audio visual system
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Total for B Video Conferencing System	control of DSP section	USB Rear panel USB connector type B for remote	Signal-to-noise >100 dB or better	Distortion 145 @ 8 Ω >155 @ 8 Ω or better	1000 Watts into 4 Ohms (bridge mode) or better	Watts, into 2 Ohms; 2 x 300 Watts into 4 Ohms,	HighDensity Power Amplifier: Delivers 2 x 500	Supply and Installation of Ultra-Lightweight, No	dB continuous,117 dB peak or better	70° coverage, 90 dB or better Sensitivity, SPL 111	Frequency response 43 Hz-20 kHz(-10 dB), 100° x	120W,60W,30W (and 15 at 70V) or better	Impedance 8 ohms,70V/100V taps of	Power 120 Watts rms or better
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	1 HDMI input ,1 VGA input and 1 HDMI output	Recording Function:	of HDMI/VGA to HDMI Live Video Streamer with	Supply, installation, Testing and Commissioning	30° to +30°. or better	Pan angle from -100' to +100'; tilting angle from -	Wide range Pan/ Tilt/Zoom actions	Viewing Angle: 74°(H) 82°(D) or better	better	Applicable for a medium size conference room or	frame rate of 60 fps,12x optical zoom or better	Full HD 1080p signal output format with a high	better	USB 3.0 and HDMI video output interface or	image sensor or better	of USB PTZ Camera: Equipped with a 1/2.8 inch	Supply, Installation, Testing and Commissioning	C. LIVE Streaming and Recording	Change in the second in the se	lotal for B Video Conferencing System	control of DSP section	USB Rear panel USB connector type B for remote	Signal-to-noise >100 dB or better	Distortion 145 @ 8 Ω >155 @ 8 Ω or better	1000 Watts into 4 Ohms (bridge mode) or better	Watts, into 2 Ohms; 2 x 300 Watts into 4 Ohms,	HighDensity Power Amplifier: Delivers 2 x 500	Supply and Installation of Ultra-Lightweight,	dB continuous,117 dB peak or better	70° coverage, 90 dB or better Sensitivity, SPL 111	Frequency response 43 Hz-20 kHz(-10 dB), 100° x	ett	Impedance 8 ohms,70V/100V taps of	Power 120 Watts rms or better
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Total for C Live Streaming and Recording 720p, or 1080p at up to 60fps or better provided at QVGA (320x240), VGA (640x480), Advanced H.264 video streaming and recording is and HDCP 2.2 compliant or better. HDMI VGA input supports resolutions up to WUXGA (18Gbps, 4K@60Hz 4:4:4, 8-bit) or better input/output supports resolutions up to 4K UHD (for local monitoring) are supported HDCP 1.x (1920x1200@60Hz)or better

Total: A + B + C

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Date:

Signature of the bidder

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