

Date: 21.06.2016

ANNEXURE I

PART-I Technical Bid

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Assistant General Manager Indian Bank Zonal office,UGF, World trade centre New delhi

Dear Sir,

Sub: Supply, installation and maintenance of Video Conferencing Equipments.

Reference: Tender No. IB/ND/VC/2016-17 Dated 21.06.2016

Referring to your above tender document calling for quotations, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to undertake the videoconferencing project, and submit our quotation.

SPECIFICATIONS OF THE EQUIPMENTS

Video System

SI. No		Description	Qty	Specification Offered: (Specify Make & Model for each item)	Complied with Bank's Spec. (Yes / No)
1		ition, Testing & Commissioning Conferencing Main Systems	1		
	No. of sites	Min. 3 sites using in-built multi-site endpoint feature with each site at 720p resolution			
	Camera	Camera with 1/3" CMOS/CCD with Capability for capturing video in poorly lit rooms. Camera mount / stand to be provided.			
	Output Pixels (H x V)	1920 x 1080			
	Frame Rate	Minimum 60 fps			
	Zoom	12X optical zoom with 12X digital zoom			
	Horizontal Viewing Angle	Minimum 65°			
	Pan/Tilt Angle	Pan ±90°/Tilt+/-15°			
	Preset Position	Minimum 25 positions			
	Other features	It should be able to register on the existing Gate Keeper available at Indian Bank's Head Quarter Chennai & Seamlessly work with the existing infrastructure setup at Bank (Polycom CMA 4000).			



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Video Quality Video Standards	 The PTZ camera and codec should be of same manufacturer. In-built DSP to eliminate feedback and echo. The unit should be capable of supporting other video features like content sharing through direct physical link with the system or via LAN. Brief details on the VC recording facility and its setup shall be provided. Full HD (1080p) H.263, H.263+, H.263++, H.264 Baseline Profile, H.264 High Profile, MPEG-4 SP@L3 (SIP only) H.460.18, H.460.19 Firewall 	
	Traversal	
Audio Standards	G.711, G.722,G.722.1 Mono (11kHz@64/96kbps), MPEG-4 AAC-LC Mono (22kHz@96kbps).	
Screen layout	Screen Layout Full Screen / PinP / PandP / PandPandP / Side by Side	
Network Protocol	TCP/IP, UDP/IP, DHCP, DNS, HTTP, TELNET, SSH, SNMP, NTP, ARP, RTP/RTCP, PPPoE, UPnP, Protocol Stack IPv4, IPv6,Bit Rate	
H.239 Presentation	64 kbps to 4,096 kbps, YES 1080 / SXGA / WXGA / 720 / XGA @30fps,	
Video Input/output	The unit should have minimum 2 video inputs first to HD camera, and Content (DVI-I or equivalent) and At least 2 No. of HDMI/DVI outputs to connecting to high definition display devices and recording devices.	
Other connectors	VGA S Component (videos) If pin d-connectors (Camera to VC Processor) USB 3.0	
Audio Input/output	Input: Microphone Input (quoted system should support up to 4 mics) 3 X Mics (VC omnidirectional HD MICS) should be provided 1 PC Audio /Aux port Output: 1 x stereo output (RCA) and 1 HDMi output	
Other audio features to be supported	 Echo Cancellation Automatic gain control Automatic noise suppression Adaptive post filtering 	

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	Bandwidth / IP	H.323/SIP up to 6 Mbps point to			
	Features	point			
		Support H.320 up 2 Mbps through			
		gate keeper.			
		Packet Loss Recovery feature on			
		H.323 call			
		SIP up to 4 Mbps in addition to			
		H323 protocol.			
		Calls can be made on SIP or H323			
		without having to restart or			
		reconfigure the endpoint.			
	Network	Gigabit Ethernet (10BASE-			
	Interface	T/100BASE-TX/1000BASE-T, IPv6			
		compatible) – 1 No.			
	User Interface:	The system should support			
		Password protected system			
		menu.			
		Directory Services.			
		Web-based System			
		Management- SNMP V3 support.			
	Make	Make: SONY/POLYCOM/AVER			
		/CISCO	<u> </u>		
2		tions for SITC of Hydraulic Pop Up	5		
	Box on Conference	e i adie:			
	VIDEO INPUT/OUT	DIIT			
	1 pass-through VGA				
	1 pass-through HDN				
		HD female to 15-pin HD female on a 6"			
	(15 cm)	is remaic to 10 pin 115 remaic on a c			
	pigtail				
		MI female on a 10" (25 cm) pigtail			
	AUDIO INPUT/OUT				
	1 pass-through ster				
		TRS jack to 3.5 mm 3 pole captive			
	screw	, , ,			
	connector on a 10"	(25 cm) pigtail			
	DATA INPUT/OUT	PUT			
	Standards CAT 6, T	TA/EIA T568B			
	Connectors 1 femal	e RJ-45 to 1 female RJ-45			
	POWER				
		VAC, 50-60 Hz, 12 A max.			
	•	Region/UK) 240 VAC, 50-60 Hz, 10 A			
	max.				
	USB power	nal			
	Power supply Exteri				
	Input: 100-240 VAC				
	Output: 12 VDC, 1 A				
	rower output USB:	5 VDC, 2.1 A, 10.5 watts total			
	(Make: Extron / Cr	restron / AMX)			
3		: Should be controllable through front	1		
		ion switches with provision for RS232C			
		nd also using IR / RF remote Control.			
	Resolution range 1	Jp to 1080p (HDTV) or 1920x1200 (the			
		f the single-link DVI standard) @ 60 Hz			
	-	-			
		os (2.25 Gbps per color) or above			
			1	1	i
	Pixel clock: 165 MH	z or above			



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	Standards DVI 1.0, HDMI 1.3, VGA Switching speed: 200 ns. HDTV Compatible & HDCP Compliant. Video Inputs-10 HDMI & 5 computer graphics video on 15-pin HD (VGA) connectors. Scaled Outputs-2 HDMI,22 Output Resolutions-Up to WUXGA/1080p, Auto Input Scanning and Switching, Color Sampling-Supports 4:4:4 (RGB and YUV) as well as 4:4:2 (YUV) color sampling, Audio Outputs-1 S/PDIF on an RCA connector, 1 balanced stereo audio on a terminal block, embedded audio on the HDMI outputs (Make: Kramer / Extron / Crestron)		
4	 SITC of Motorized Screen Size:6 ft X 4ft , Width 6ft & Height 4ft, diagonal 84" , High Contrast Matt White, Low Noise Motor Video Spectra 1.5, Remote control with range up to 40mtrs. (Make-Draper / De-lite) 	1	
5	SITC of LCD Projector Resolution: WXGA Lumens: 4000 Connectivity: HDMI 19-pin x 1 (compatible with HDCP, Deep Color), audio signal: linear PCM (sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz) COMPUTER 1 IN - D-sub HD 15-pin (female) x 1 (RGB/YPBPR/YCBCR) COMPUTER 2 IN /MONITOR OUT - D-sub HD 15-pin (female) x 1 (RGB), D-sub HD 15-pin (female) x 1 (RGB), (input/output selectable using on-screen menu) VIDEO IN Pin jack x 1 (Composite VIDEO) S-VIDEO IN Mini DIN 4-pin x 1 (S-VIDEO) AUDIO IN 1 M3 x 1 (L-R x 1) AUDIO IN 2 (MIC IN) M3 x 1 (L-R x 1) for audio input or for microphone connection (variable) AUDIO IN 3 Pin jack x 2 (L, R x 1) AUDIO OUT M3 x 1 (L-R x 1) for output (variable) LAN RJ-45 x 1 (for network connection, 10BASE- T/100BASE-TX, compliant with PJLink™) SERIAL IN D-sub 9-pin (female) x 1 for external control (RS-232C compliant)	1	
6	(Make: Panasonic / Casio / NEC / SONY / EPSON) SITC of Ceiling Mount Kit for Projector Standard Duty Ceiling Mount Bracket (Up to 5 Kg Projector) (Make: Customized)	1	
7	 SITC of LED TV with Wall mount bracket 164cm or 65" Diagonal with 4k resolution (3840x2160). View angle H/V 178/178°, Aspect ratio 16:9, Picture In Picture should be available Audio Output (PMPO) (Watts) - Minimum 20W Connectivity: HDMI Input USB Port - 2 (Side) Composite Input - 2 (Rear) Digital Audio Out - 1 (Rear) 	1	



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	Controlling switch to switch ON / OFF the TV should be		
	provided at chairman's seat.		
	(Make: LG /Panasonic/ Samsung / Sony)		
A d i .	o System		
Augur 1	SITC of Boundary Layer Microphone with on/off for	21	
'	local conference	۷۱	
	 Should be placed at 2'-3' intervals 		
	Frequency Response: 50 to 17000 Hz		
	 Output Impedance: up to 180Ω 		
	 Programmable on/off switch and LED on/off indicator. 		
	 Maximum SPL (1 kHz at 1% THD, 1 kΩ load) 117.0 Db 		
	Dynamic Range at 94.0 dB		
	Power Requirements 11 to 52 Vdc phantom		
	Surface-mount microphone.		
	Open circuit sensitivity at 1 kHz,		
	 Cardioid Cartridge: -27.5dBV/pa (42.2mV) 		
	Electret Condenser type Programmable on/off switch		
	and LED on/off indicator.		
	Three operating modes: touch-on/touch-off, press to		
	talk, and press to mute		
	(Make: SHURE/AKG/Beyerdynamic/Audiotechnica)		
2	SITC of Chairman (19 inch.) Gooseneck Microphone	2	
	and stand with on/off Base		
	 Frequency Response : 50 to 17000 Hz 		
	 Output Impedance : up to 180Ω 		
	 Signal to noise ratio at 94 dB SPL Cardioid 		
	Open circuit sensitivity at 1 kHz, ref. 1V/Pascal–35.0		
	dB (17.8 mV)		
	 Maximum SPL (1 kHz at 1% THD, 1 kΩ load) 124.2dB 		
	Maximum Equivalent output noise : 28.0 dB		
	 Dynamic Range at 1 kΩ Load 96.2 dB 		
	Power Requirements 11 to 52 Vdc phantom, 2.0 mA Make: HUBE/AKC/Reverdynamic/Audiotechnica		
	Make: HURE/AKG/Beyerdynamic/Audiotechnica		
3	SITC of Digital Signal Processor for 23 microphones:	1 to 3	
	Multi Channel Microphone input	depe	
	Two Aux-level input	nding	
	LED indication	upon the	
	Front-panel headphones output with level control	no. of	
	Frequency Response 50 Hz to 20000Hz (±1 dB) Frequency Response 50 Hz to 20000Hz (±1 dB)	chan	
	Equalization inbuilt Phantom Paragram to 40 V/ds	nels	
	 Power up to 48 Vdc Bi-color LED indication of channel activation and 	avail	
		able	
	clippingControl System Compatible	in the	
	 Control System Compatible Linking capability up to 400 microphone 	DSP	
	 Mountable in a single 19" rack space via integral rack- 		
	mount		
	Peak-responding output limiter with selectable		
	thresholds and LED indicator		
	 Logic Operation should be available 		
	(Make: BSS / Shure / Biamp)		
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Indian Bank Indian Bank Zonal Office, Upper Ground Floor, World Trade Centre, New Delhi.

4	SITC of Ceiling speaker	6	I	
	System	O		
	• Freq. Range (-10 dB)1: 80 Hz - 20 kHz			
	Power Capacity2: 80 Watts Continuous Program Power			
	40 Watts Continuous Pink Noise			
	Nominal Sensitivity3: 86 dB SPL @ 1 m (3.3 ft)			
	Nominal Coverage Angle4: 130° conical coverage			
	Directivity Factor (Q): 2.4 averaged 500 Hz to 4 kHz			
	 Directivity Index (DI): 3.8 averaged 500 Hz to 4 kHz 			
	 Rated Maximum SPL: 102 dB @ 1 m (3.3 ft) 			
	 Nominal Impedance (24C): 16 ohms (Min Z 16.1? @ 			
	320 Hz)			
	 Transformer Taps (24CT): 070V: 30W, 15W, 7.5W & 			
	3.7W taps			
	 100V: 30W, 15W, & 7.5W taps 			
	Transducers:			
	 Low-Frequency: 100 mm (4.0 in) Polypropylene- 			
	coated,			
	 1" coil on aluminum former 			
	 High-Frequency: 19 mm (0.75 in) Titanium coated 			
	polyester			
	(Make: JBL / Bose / Extron)			
5	SITC of Amplifier	1		
	 Amplifier: 75 watts x 8 channel amplifier@ 8 ohm , 			
	 Sensitivity-1.4 V, 			
	Signal to Noise Ratio-110 dB,			
	 THD (full rated power, 20 Hz - 20 kHz)-< 0.05%, 			
	 Frequency Response (at 1W, 4/8 ohms)-+/- 0.5 dB, 			
	Voltage Gain-25 dB			
	 Speaker output 8Ω ,70V/100V 			
	Built-in band-pass filter (80Hz to 16kHz)			
	Mountable Desktop & 19" rack.			
	Make- QSC / BOSE / Extron			
6	SITC of AV Recorder:	1		
	Should Capture HD footage,			
	Pause & resume recording facility should be available			
	 Recording through USB & HDD, 			
	Storage: 2TB HDD (Internal/External)			
	 Input: HDMI, Component video & audio L/R, 3.5 Audio, 			
	Microphone,			
	 Output: HDMI, Headphone, 3,5mm audio, 			
	 19" Rack mountable, 			
	 Data Transfer through USB to Computer, 			
	 Power on auto play, 			
	(Make- DENON / AVERMEDIA / PANASONIC)			
7	SITC of Speaker cable	100		
	 2 core of high quality with minimum data loss, 	Mtrs.		
	 1.13mm, AWG-16.foil-shielded, twisted-pair, 			
	• Capacitance: 8.5 pF (per foot at a frequency of 10 kHz)			
	Conductor Stranded bare copper,			
	Insulation PVC.			
	Make: AMX / Kramer / Extron			



Date: 21.06.2016

8	 SITC of Microphone Cable High quality with minimum data loss, 0.4mm, AWG-20, ruggedness, flexibility, flex life and interference immunity. Low impedance, Operating Temperature Range:-30°C To +60°C, Overall Nominal Diameter:5mm Make: AMX / Kramer / Extron 	275 Mtrs	
9	 SITC of Equipment Rack With lockable rear and front glass door, power strip, castor wheel for easy movement. Large cable entry in bottom Grounding and bonding stud installed in base. Finish in a durable textured powder coat for all the above audio main systems. (Make- EXTRON / Valrack / President) 	1	
10	 Bulk Connectors for complete systems (Audio, Video projection etc.), HDMI Cable 15 Mtr, HDMI Cable 3 Mtrs, VGA patch cord Length: as per site requirements (Make: Kramer/Extron/AMX/Falcon) 	1 Lot	

Note: Offered specification should be specifically mentioned wherever required.

List of deviations from the required specifications:

1)

2)

(If left blank, it is treated that there are no deviations in the compliance of specifications)

We offer a warranty period of **ONE YEAR** from the date of installation of the equipment.

We agree for quote validity of 90 days.

We agree for insuring the equipments covering storage cum erection risk for a period of three months from the date of delivery at the destination.

We enclose the technical brochures for the model quoted.

We submit that we shall abide by your terms and conditions governing the quotations and Warranty mentioned in your letter. We submit that we abide by the details given above.

We undertake, if our quotation is accepted, to complete the services in accordance with the delivery schedule specified in the quote.

If our quotation is accepted, we will obtain the guarantee of a bank for a sum equivalent to 10% of the total project cost for the due performance of the Contract, in the form prescribed by the Bank.

We undertake that, in competing for (and, if the award is made to us, in executing) the above project, we will strictly observe the laws against fraud and corruption in force in India.

We understand that you are not bound to accept the lowest or any quotation you may receive.

We clarify/confirm that we comply with the qualification criteria of the project.



Date: 21.06.201	6
Dated this day of	
Signature of Authorised Person (In the Capacity of)	ly
Mobile No:	
Email Address:	
Company Seal:	

Date: 21.06.2016

Annexure II

Part II (Commercial Quote)

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Assistant General Manager Indian Bank Zonal office,UGF, World trade centre New delhi

Sub: Supply, installation and Maintenance of Video Conferencing Equipments.

Reference: Tender No. IB/ND/VC/2016-17 Dated 21.06.2016

Referring to your above letter calling for quotations, we submit hereunder the price bid for supply, installation and maintenance of Video Conference equipments for the specifications given in Part-I.

I. VIDEO SYSTEM

SI. No		Description	Qty	Rate / Unit (Taxes Extra)	Total Amount (Taxes Extra)
1		tion, Testing & Commissioning Conferencing Main Systems Min. 3 sites using in-built multi-site	1		
		endpoint feature with each site at 720p resolution			
	Camera	Camera with 1/3" CMOS/CCD with Capability for capturing video in poorly lit rooms. Camera mount / stand to be provided.			
	Output Pixels (H x V)	1920 x 1080			
	Frame Rate	Minimum 60 fps			
	Zoom	12X optical zoom with 12X digital zoom			
	Horizontal Viewing Angle	Minimum 65°			
	Pan/Tilt Angle	Pan ±90°/Tilt+/-15°			
	Preset Position	Minimum 25 positions			
	Other features	 It should be able to register on the existing Gate Keeper available at Indian Bank's Head Quarter Chennai & Seamlessly work with the existing infrastructure setup at Bank (Polycom CMA 4000). The PTZ camera and codec should be of same manufacturer. In-built DSP to eliminate feedback and echo. The unit should be capable of supporting other video features like content sharing through direct physical link with the 			



	 Brief details on the VC recording facility and its setup shall be provided.
Video Quality	Full HD (1080p)
Video Standards	H.263, H.263+, H.263++, H.264 Baseline Profile, H.264 High Profile, MPEG-4 SP@L3 (SIP only) H.460.18, H.460.19 Firewall Traversal
Audio Standards	G.711, G.722,G.722.1 Mono (11kHz@64/96kbps), MPEG-4 AAC-LC Mono (22kHz@96kbps).
Screen layout	Screen Layout Full Screen / PinP / PandP / PandPandP / Side by Side
Network Protocol	TCP/IP, UDP/IP, DHCP, DNS, HTTP, TELNET, SSH, SNMP, NTP, ARP, RTP/RTCP, PPPoE, UPnP, Protocol Stack IPv4, IPv6,Bit Rate 64 kbps to 4,096 kbps,
H.239 Presentation	YES 1080 / SXGA / WXGA / 720 / XGA @30fps,
Video Input/output	The unit should have minimum 2 video inputs first to HD camera, and Content (DVI-I or equivalent) and At least 2 No. of HDMI/DVI outputs to connecting to high definition display devices and recording devices.
Other connectors	VGA S Component (videos) 15 pin d-connectors (Camera to VC Processor) USB 3.0
Audio Input/output	Input: • Microphone Input (quoted system should support up to 4 mics) • 3 X Mics (VC omnidirectional HD MICS) should be provided • 1 PC Audio /Aux port Output: • 1 x stereo output (RCA) and 1 HDMi output
Other audio features to be supported	 Echo Cancellation Automatic gain control Automatic noise suppression Adaptive post filtering
Bandwidth / IP Features	 H.323/SIP up to 6 Mbps point to point Support H.320 up 2 Mbps through gate keeper. Packet Loss Recovery feature on H.323 call SIP up to 4 Mbps in addition to H323 protocol. Calls can be made on SIP or H323 without having to restart or
	reconfigure the endpoint.



	Interface	T/100BASE-TX/1000BASE-T, IPv6		
	User Interface:	compatible) – 1 No. • The system should support		
		Password protected system		
		menu.Directory Services.		
		Web-based System		
	Make	Management- SNMP V3 support. Make: SONY/POLYCOM/AVER		
		/CISCO		
2	Revised specificate Box on Conference	tions for SITC of Hydraulic Pop Up e Table:	5	
	VIDEO INPUT/OUT	PUT		
	1 pass-through VGA			
	1 pass-through HDN Connectors 15-pin H	HD female to 15-pin HD female on a 6"		
	(15 cm)	·		
	pigtail HDMI female to HD	MI female on a 10" (25 cm) pigtail		
	AUDIO INPUT/OUT	PUT		
	1 pass-through stere	eo, unbalanced TRS jack to 3.5 mm 3 pole captive		
	screw			
	connector on a 10" (
	Standards CAT 6, T	IA/EIA T568B		
	Connectors 1 female POWER	e RJ-45 to 1 female RJ-45		
	_	VAC, 50-60 Hz, 12 A max.		
	•	Region/UK) 240 VAC, 50-60 Hz, 10 A		
	max. USB power			
	Power supply Exteri			
	Input: 100-240 VAC Output: 12 VDC, 1 A			
		5 VDC, 2.1 A, 10.5 watts total		
	(Make: Extron / Cr			
3		Should be controllable through front ion switches with provision for RS232C	1	
		nd also using IR / RF remote Control.		
	Resolution range 1	Jp to 1080p (HDTV) or 1920x1200 (the		
		f the single-link DVI standard) @ 60 Hz		
	Data rate: 6.75 Ghr	os (2.25 Gbps per color) or above		
	Pixel clock: 165 MH			
	Standards DVI 1.0,			
	Switching speed: 20 HDTV Compatible 8			
	Video Inputs-10 HI	DMI & 5 computer graphics video on		
	15-pin HD (VGA) co	onnectors. HDMI,22 Output Resolutions-Up to		
	WUXGA/1080p,	TOWII,22 Output Resolutions-up to		
	Auto Input Scanning			
	4:4:2 (YUV) color sa	oports 4:4:4 (RGB and YUV) as well as ampling,		
	Audio Outputs-1 S/F	PDIF on an RCA connector,		
	1 balanced stereo	audio on a terminal block, embedded		



Date: 21.06.2016

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	audio on the HDMI outputs			
	(Make: Kramer / Extron / Crestron)			
4	SITC of Motorized Screen	1		
	 Size:6 ft X 4ft , Width 6ft & Height 4ft, diagonal 84" , 			
	High Contrast Matt White,			
	Low Noise Motor			
	Video Spectra 1.5,			
	Remote control with range up to 40mtrs.			
	(Make-Draper / De-lite)			
5	SITC of LCD Projector	1		
	Resolution: WXGA			
	Lumens: 4000			
	Connectivity:			
	HDMI 19-pin x 1 (compatible with HDCP, Deep Color),			
	audio signal: linear PCM (sampling frequencies: 48 kHz,			
	44.1 kHz, 32 kHz)			
	COMPUTER 1 IN - D-sub HD 15-pin (female) x 1			
	(RGB/YPBPR/YCBCR)			
	COMPUTER 2 IN /MONITOR OUT - D-sub HD 15-pin			
	(female) x 1 (RGB),			
	D-sub HD 15-pin (female) x 1 (RGB), (input/output			
	selectable using on-screen menu)			
	VIDEO IN Pin jack x 1 (Composite VIDEO)			
	S-VIDEO IN Mini DIN 4-pin x 1 (S-VIDEO)			
	AUDIO IN 1 M3 x 1 (L-R x 1)			
	AUDIO IN 2 (MIC IN) M3 x 1 (L-R x 1) for audio input or for			
	microphone connection (variable)			
	AUDIO IN 3 Pin jack x 2 (L, R x 1)			
	AUDIO OUT M3 x 1 (L-R x 1) for output (variable)			
	LAN RJ-45 x 1 (for network connection, 10BASE-			
	T/100BASE-TX, compliant with PJLink™)			
	SERIAL IN D-sub 9-pin (female) x 1 for external control			
	(RS-232C compliant)			
	(Make: Panasonic / Casio / NEC / SONY / EPSON) SITC of Ceiling Mount Kit for Projector	4		
6	•	1		
	Standard Duty Ceiling Mount Bracket (Up to 5 Kg			
	Projector) (Make: Customized)			
	(Make: Customized)			
7	SITC of LED TV with Wall mount bracket	1		
	• 164cm or 65" Diagonal with 4k resolution (3840x2160).			
	 View angle H/V 178/178°, 			
	 Aspect ratio 16:9, 			
	 Picture In Picture should be available 			
	 Audio Output (PMPO) (Watts) - Minimum 20W 			
	Connectivity : HDMI Input			
	USB Port - 2 (Side)			
	Composite Input - 2 (Rear)			
	Digital Audio Out - 1 (Rear)			
	Controlling switch to switch ON / OFF the TV should be			
	provided at chairman's seat.			
	(Make: LG /Panasonic/ Samsung / Sony)			

I. Audio System

SI. No	Description	Qty	Rate / Unit (Taxes Extra)	Total Amount (Taxes Extra)
1	SITC of Boundary Layer Microphone with on/off for local conference	21		
	Should be placed at 2'-3' intervals			
	Frequency Response: 50 to 17000 Hz			



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2	 Output Impedance: up to 180Ω Programmable on/off switch and LED on/off indicator. Maximum SPL (1 kHz at 1% THD, 1 kΩ load) 117.0 Db Dynamic Range at 94.0 dB Power Requirements 11 to 52 Vdc phantom Surface-mount microphone. Open circuit sensitivity at 1 kHz, Cardioid Cartridge: -27.5dBV/pa (42.2mV) Electret Condenser type Programmable on/off switch and LED on/off indicator. Three operating modes: touch-on/touch-off, press to talk, and press to mute (Make: SHURE/AKG/Beyerdynamic/Audiotechnica) SITC of Chairman (19 inch.) Gooseneck Microphone and stand with on/off Base Frequency Response: 50 to 17000 Hz Output Impedance: up to 180Ω Signal to noise ratio at 94 dB SPL Cardioid Open circuit sensitivity at 1 kHz, ref. 1V/Pascal-35.0 dB (17.8 mV) Maximum SPL (1 kHz at 1% THD, 1 kΩ load) 124.2dB Maximum Equivalent output noise: 28.0 dB Dynamic Range at 1 kΩ Load 96.2 dB 	2		
	Power Requirements 11 to 52 Vdc phantom, 2.0 mA Make: HURE/AKG/Beyerdynamic/Audiotechnica			
3	 SITC of Digital Signal Processor for 23 microphones: Multi Channel Microphone input Two Aux-level input LED indication Front-panel headphones output with level control Frequency Response 50 Hz to 20000Hz (±1 dB) Equalization inbuilt Phantom Power up to 48 Vdc Bi-color LED indication of channel activation and clipping Control System Compatible Linking capability up to 400 microphone Mountable in a single 19" rack space via integral rackmount Peak-responding output limiter with selectable thresholds and LED indicator Logic Operation should be available (Make: BSS / Shure / Biamp) 	1 to 3 depe nding upon the no. of chan nels avail able in the DSP		
4	SITC of Ceiling speaker System	6		
	 Freq. Range (-10 dB)1: 80 Hz - 20 kHz Power Capacity2: 80 Watts Continuous Program Power 40 Watts Continuous Pink Noise Nominal Sensitivity3: 86 dB SPL @ 1 m (3.3 ft) Nominal Coverage Angle4: 130° conical coverage Directivity Factor (Q): 2.4 averaged 500 Hz to 4 kHz Directivity Index (DI): 3.8 averaged 500 Hz to 4 kHz Rated Maximum SPL: 102 dB @ 1 m (3.3 ft) Nominal Impedance (24C): 16 ohms (Min Z 16.1 ? @ 320 Hz) Transformer Taps (24CT): 070V: 30W, 15W, 7.5W & 3.7W taps 100V: 30W, 15W, & 7.5W taps Transducers: 			
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Low-Frequency: 100 mm (4.0 in) Polypropylene-coated, 11 coil on aluminum former end of the program of the pr			1	1	
• 1" coil on aluminum former • High-Frequency: 19 mm (0.75 in) Titanium coated polyester (Make: JBL / Bose / Extron) 5 SITC of Amplifier • Amplifier: 75 watts x 8 channel amplifier® 8 ohm , • Sensitivity-1.4 V, • Signal to Noise Ratio-110 dB, • THD (full rated power, 20 Hz - 20 kHz)-< 0.05%, • Frequency Response (at 1W, 4/8 ohms)-+/- 0.5 dB, • Voltage Gain-25 dB • Speaker output 80, 70V/100V • Built-in band-pass filter (80Hz to 16kHz) • Mountable Desktop & 19" rack. Make- 36S / BOSE / Extron 6 SITC of AV Recorder: • Should Capture HD footage, • Pause & resume recording facility should be available • Recording through USB & HDD, • Storage: 21B HDD (Interna/External) • Input: HDMI, Component video & audio L/R, 3.5 Audio, Microphone, • Output: HDMI, Headphone, 3,5mm audio, • 19" Rack mountable, • Data Transfer through USB to Computer, • Power on auto play. (Make- DENON / AVERINEDIA / PANASONIC) 7 SITC of Speaker cable • 2 core of high quality with minimum data loss, • 1.13mm, AWG-16-16-shielded, wissled-pair, • Capacitance: 8.5 pF (per foot at a frequency of 10 kHz) • Conductor Stranded bare copper, • Insulation PVC. 8 SITC of Microphone Cable • High quality with minimum data loss, • 0.4mm, AWG-20, rugoedness, flexibility, flex life and interference immunity. • Low impedance, • Operating Temperature Range: 30°C To +60°C, • Overall Norminal Diameter:5mm Make: AMX / Kramer / Extron 9 SITC of Equipment Rack • Finish in a durable textured powder coat for all the above audio main systems (Make- EXTRON / Valrack / President) • Bulk Connectors for complete systems (Audio, Video projection etc.), • HDMI Cable 15 Mtrs, • VGA patch cord Length: as per site requirements		 Low-Frequency: 100 mm (4.0 in) Polypropylene- 			
High-Frequency: 19 mm (0.75 in) Titanium coated polyester (Make: JBL / Bose / Extron) SITC of Amplifier Amplifier 75 watts x 8 channel amplifier 8 8 ohm , Sensitivity-1.4 V, Signal to Noise Ratio-110 dB, ThD (full rated power, 20 Hz - 20 kHz)-		·			
polyester (Make: JBL / Bose / Extron) 5 SITC of Amplifier Amplifier: 75 watts x 8 channel amplifier@ 8 ohm , Sensitivity-1.4 V, Signal to Noise Ratio-110 dB, THD (full rated power, 20 Hz - 20 kHz) -< 0.05%, Frequency Response (at 1W, 4/8 ohms)-H/- 0.5 dB, Voltage Gain-25 dB Speaker output 80, 70V/100V Built-in band-pass filter (80Hz to 16kHz) Mountable Desktop & 19' rack. Make- QSC / BOSE / Extron 5 SITC of AV Recorder: Should Capture HD footage, Pause & resume recording facility should be available Recording through USB & HDD, Storage: 2TB HDD (Internal/External) Input: HDMI, Component video & audio L/R, 3.5 Audio, Microphone, Output: HDMI, Headphone, 3,5mm audio, 19' Rack mountable, Data Transfer through USB to Computer, Power on auto play. Power on auto play. SITC of Speaker cable 11.3mm, AWG-18-foil-shielded kwisted-pair, Capacitance: 8.5 pF (per foot at a frequency of 10 kHz) Conductor Stranded bare copper, Insulation PVC, Make: AMX / Kramer / Extron 8 SITC of Microphone Cable High quality with minimum data loss, O,4mm, AWG-20, ruggedness, flexibility, flex life and interference immunity. Low impedance, Operating Temperature Range:-30°C To +60°C, Overall Nominal Diameter:5mm Make: AMX / Kramer / Extron 9 SITC of Equipment Rack With lockable rear and front glass door, power strip, castor wheel for easy movement. Large cable entry in bottom Grounding and bonding stud installed in base. Finish in a durable textured powder coat for all the above audio main systems. Hand Cable 3 Mrs, Wake: EXTRON / Valrack / President) 10 Bulk Connectors for complete systems (Audio, Video projection etc.). HDMI Cable 15 Mrs, HDMI Cable 3 Mrs, VGA patch cord		 1" coil on aluminum former 			
(Make: JBL / Bose / Extron) 5 SITC of Amplifier • Amplifier: 75 watts x 8 channel amplifier@ 8 ohm , • Sensitivity-1.4 V, • Signal to Noise Ratio-110 dB, • ThD (full rated power, 20 Hz - 20 kHz)-< 0.05%, • Frequency Response (at 1W, 4/8 ohms)-+/- 0.5 dB, • Voltage Gain-25 dB • Speaker output 80, 70V/100V • Built-in band-pass filter (80Hz to 16kHz) • Mountable Desktop 8.19" rack. Make-QSC / BOSE / Extron 6 SITC of AV Recorder: • Should Capture HD footage, • Pause & resume recording facility should be available • Recording through USB & HDD, • Storage: 2TB HDD (Internal/External) • Input: HDMI, Component video & audio L/R, 3.5 Audio, Microphone, • Output: HDMI, Headphone, 3,5mm audio, • 19" Rack mountable, • Data Transfer through USB to Computer, • Power on auto play, (Make- DENON / AVERMEDIA / PANASONIC) 7 SITC of Speaker cable • 2 core of high quality with minimum data loss, • 1.13mm, AWG-15-fiol-shielded, twisted-pair, • Capacitance: 8.5 pF (per foot at a frequency of 10 kHz) • Conductor Stranded bare copper, • Insulation PVC. Make: AMX / Kramer / Extron 8 SITC of Microphone Cable • High quality with minimum data loss, • 0.4mm, AWG-20, ruggedness, flexibility, flex life and interference immunity, • Low impedance, • Operating Temperature Range:-30°C To +60°C, • Overall Nominal Diameter:5mm Make: AMX / Kramer / Extron 9 SITC of Equipment Rack • With lockable rear and front glass door, power strip, castor wheel for easy movement. • Large cable entry in bottom • Grounding and bonding stud installed in base. • Finish in a durable textured powder coat for all the above audio main systems. (Make: EXTRON / Valrack / President) 10 Bulk Connectors for complete systems (Audio, Video projection etc.), • HDMI Cable 15 Mrr, • HDMI Cable 3 Mrs, • VGA patch cord		 High-Frequency: 19 mm (0.75 in) Titanium coated 			
SITC of Amplifier Amplifier: 75 watts x 8 channel amplifier@ 8 ohm , Sensitivity-1.4 V, Signat to Noise Ratio-110 dB, THD full rated power, 20 Hz - 20 kHz)-< 0.05%, Frequency Response (at 1W, 4/8 ohms)-H/- 0.5 dB, Voltage Gain-25 dB Speaker output 80, 70V/100V Built-in band-pass filter (80Hz to 16kHz) Make-QSC / BOSE / Extron SITC of AV Recorder: Should Capture HD footage, Pause & resume recording facility should be available Recording through USB & HDD, Storage: 2TB HDD (internal/External) Input: HDMI, Component video & audio L/R, 3.5 Audio, Microphone, Data Transfer through USB to Computer, Power on auto play, (Make-DENON / AVERMEDIA / PANASONIC) SITC of Speaker cable Conductor Stranded bare copper, Insulation PVC. Make: AMX / Kramer / Extron SITC of Microphone Cable High quality with minimum data loss, Hallon (Light quality with minimum data loss, Olymm, AWG-20, ruggedness, flexibility, flex life and interference immunity, Unimum of the minimum data loss, High quality with minimum data lo		polyester			
SITC of Amplifier Amplifier: 75 watts x 8 channel amplifier@ 8 ohm , Sensitivity-1.4 V, Signat to Noise Ratio-110 dB, THD full rated power, 20 Hz - 20 kHz)-< 0.05%, Frequency Response (at 1W, 4/8 ohms)-H/- 0.5 dB, Voltage Gain-25 dB Speaker output 80, 70V/100V Built-in band-pass filter (80Hz to 16kHz) Make-QSC / BOSE / Extron SITC of AV Recorder: Should Capture HD footage, Pause & resume recording facility should be available Recording through USB & HDD, Storage: 2TB HDD (internal/External) Input: HDMI, Component video & audio L/R, 3.5 Audio, Microphone, Data Transfer through USB to Computer, Power on auto play, (Make-DENON / AVERMEDIA / PANASONIC) SITC of Speaker cable Conductor Stranded bare copper, Insulation PVC. Make: AMX / Kramer / Extron SITC of Microphone Cable High quality with minimum data loss, Hallon (Light quality with minimum data loss, Olymm, AWG-20, ruggedness, flexibility, flex life and interference immunity, Unimum of the minimum data loss, High quality with minimum data lo		(Make: JBL / Bose / Extron)			
Amplifier, 75 watts x 8 channel amplifier@ 8 ohm , Sensitivity-1.4 V, Signal to Noise Ratio-110 dB, THD (full rated power, 20 Hz - 20 kHz)-< 0.05%, Frequency Response (at 1W, 4/8 ohms)-+/- 0.5 dB, Voltage Gain-25 dB Speaker output 80, 70V/100V Built-in band-pass filter (80Hz to 16kHz) Mountable Desktop 8.19" rack. Make- QSC / BOSE / Extron STIC of AV Recorder: Should Capture HD footage, Pause & resume recording facility should be available Recording through USB & HDD, Storage: 2TB HDD (Internal/External) Input HDMI, Component video & audio L/R, 3.5 Audio, Microphone, Output: HDMI, Headphone, 3,5mm audio, 19" Rack mountable, Data Transfer through USB to Computer, Power on auto play, (Make- DENON / AVERMEDIA / PANASONIC) SITC of Speaker cable 2 core of high quality with minimum data loss, 1.13mm, AWG-16.foil-shielded, twisted-pair, Capacitance: 8.5 pF (per foot at a frequency of 10 kHz) Conductor Stranded bare copper, Insulation PVC. Make: AMX / Kramer / Extron SITC of Microphone Cable High quality with minimum data loss, 0.4mm, AWG-20, ruggedness, flexibility, flex life and interference immunity. Low impedance, Operating Temperature Range:-30"C To +60"C, Overall Nominal Diameter:5mm Make: AMX / Kramer / Extron SITC of Requipment Rack With lockable rear and front glass door, power strip, castor wheel for easy movement. Large cable entry in bottom Grounding and bonding stud installed in base. Finish in a durable textured powder coat for all the above audio main systems. (Make- EXTRON / Valrack / President) 10 Bulk Connectors for complete systems (Audio, Video projection etc.), HDMI Cable 18 Mtrs, VGA patch cord	5		1		
Sensitivity-1.4 V, Signat to Noise Ratio-110 dB, THD (full rated power, 20 Hz - 20 kHz)-< 0.05%, Frequency Response (at 11 W, 4/8 ohms)-+/- 0.5 dB, Voltage Gain-25 dB Speaker output 80, 70V/100V Built-in band-pass filter (80Hz) to 16kHz) Mountable Desktop & 19" rack. Make- 9SC / BOSE / Extron SITC of AV Recorder: Should Capture HD footage, Pause & resume recording facility should be available Recording through USB & HDD, Storage: 2TB HDD (Internal/External) Input: HDMI, Headphone, 3,5mm audio, 19" Rack mountable, Data Transfer through USB to Computer, Power on auto play, Make- DENON / AVERMEDIA / PANASONIC) SITC of Speaker cable 2 core of high quality with minimum data loss, 1.13mm, AWG-16.foil-shielded, twisted-pair, Capacitance: 8.5 pF (per foot at a frequency of 10 kHz) Conductor Stranded bare copper, Insulation PVC. Make: AMX / Kramer / Extron SITC of Microphone Cable High quality with minimum data loss, O.4mm, AWG-20, ruggedness, flexibility, flex life and interference immunity. Low impedance, Operating Temperature Range:-30"C To +60"C, Overall Nominal Diameter:5mm Make: AMX / Kramer / Extron SITC of Equipment Rack With lockable rear and front glass door, power strip, castor wheel for easy movement. Large cable entry in bottom Grounding and bonding stud installed in base. Finish in a durable textured powder coat for all the above audio main systems. (Make-EXTROM / Valrack / President) Bulk Connectors for complete systems (Audio, Video projection etc.), HDMI Cable 13 Mtrs, VGA patch cord Lengtix as per site requirements		_	-		
Signal to Noise Ratio-110 dB, THD (full rated power, 20 Hz - 20 kHz)-< 0.05%, Frequency Response (at 1W, 4/8 ohms)+/- 0.5 dB, Voltage Gain-25 dB Speaker output B0, 70V/100V Built-in band-pass filter (80Hz to 16kHz) Mountable Desktop 8.19" rack. Make-QSC / BOSE / Extron SITC of AV Recorder: Should Capture HD footage, Pause & resume recording facility should be available Recording through USB & HDD, Storage: 2TB HDD (Internal/External) Input-HDMI, Component video & audio L/R, 3.5 Audio, Microphone, Output: HDMI, Headphone, 3,5mm audio, 19" Rack mountable, Data Transfer through USB to Computer, Power on auto play, (Make-DENON / AVERNEDIA / PANASONIC) SITC of Speaker cable 2 core of high quality with minimum data loss, 1.13mm, AWG-16 foil-shielded, twisted-pair, Capacitance: 8.5 pF (per foot at a frequency of 10 kHz) Conductor Stranded bare copper, Insulation PVC. Make: AMX / Kramer / Extron SITC of Microphone Cable High quality with minimum data loss, High quality with minimum data loss, Olamm, AWG-20, ruggedness, flexibility, flex life and interference immunity. Low impedance, Operating Temperature Range:-30°C To +60°C, Overall Nominal Diameter:5mm Make: AMX / Kramer / Extron SITC of Equipment Rack With lockable rear and front glass door, power strip, castor wheel for easy movement. Large cable entry in bottom Grounding and bonding stud installed in base. Finish in a durable textured powder coat for all the above audio main systems. (Make-EXTRON / Valrack / President) Will bluc Cable 15 Mtr, HDMI Cable 15 Mtrs, VGA patch cord Length: as per site requirements					
THID (full rated power, 20 Hz - 20 kHz)- c 0.05%, Frequency Response (at 1W, 4/8 ohms)-4/- 0.5 dB, Voltage Gain-25 dB Speaker output 80, 70V/100V Built-in band-pass filter (80Hz to 16kHz) Make-QSC / BOSE / Extron SITC of AV Recorder: Should Capture HD footage, Pause & resume recording facility should be available Recording through USB & HDD, Storage: ZTB HDD (Internal/External) Input: HDMI, Component video & audio L/R, 3.5 Audio, Microphone, Output: HDMI, Headphone, 3,5mm audio, 19° Rack mountable, Data Transfer through USB to Computer, Power on auto play, (Make-DENON / AVERMEDIA / PANASONIC) SITC of Speaker cable 2 core of high quality with minimum data loss, 1.13mm, AWC-16.foil-shielded, twisted-pair, Capacitance: 8.5 pF (per foot at a frequency of 10 kHz) Conductor Stranded bare copper, Insulation PVC. Make: AMX / Kramer / Extron SITC of Microphone Cable High quality with minimum data loss, O. Amm, AWG-20, ruggedness, flexibility, flex life and interference immunity Low impedance, Operating Temperature Range:-30°C To +60°C, Overall Nominal Diameter:5mm Make: AMX / Kramer / Extron SITC of Equipment Rack With lockable rear and front glass door, power strip, castor wheel for easy movement. Large cable entry in bottom Grounding and bonding stud installed in base. Finish in a durable textured powder coat for all the above audio main systems. (Make-EXTRON / Valrack / President) Make: EXTRON / Valrack / President) Make: Large cable entry in bottom Grounding and bonding stud installed in base. Finish in a durable textured powder coat for all the above audio main systems. Walk Connectors for complete systems (Audio, Video projection etc.), HDMI Cable 15 Mtr, HDMI Cable 3 Mtrs, VGA patch cord					
Frequency Response (at 1W, 4/8 ohms)-+/- 0.5 dB, Voltage Gain-25 dB Speaker output 8D, 70V/100V Built-in band-pass filter (80Hz to 16kHz) Mountable Desktop 8.19" rack. Make-QSC / BOSE / Extron STC of AV Recorder: Should Capture HD footage, Pause & resume recording facility should be available Recording through USB & HDD, Storage: 27B HDD (Internal/External) Input: HDMI, Component video & audio L/R, 3.5 Audio, Microphone, Wicrophone, Microphone, Storage: 27B HDD (Internal/External) Input: HDMI, Headphone, 3,5mm audio, 19" Rack mountable, Data Transfer through USB to Computer, Power on auto play, (Make-DENON / AVERMEDIA / PANASONIC) STC of Speaker cable 2 core of high quality with minimum data loss, 1.13mm, AWG-16.foil-shielded, twisted-pair, Capacitance: 8 5 pF (per foot at a frequency of 10 kHz) Conductor Stranded bare copper, Insulation PVC. Make: AMX / Kramer / Extron STC of Microphone Cable High quality with minimum data loss, O.4mm, AWG-20, ruggedness, flexibility, flex life and interference immunity. Low impedance, Operating Temperature Range:-30"C To +60"C, Overall Nominal Diameter:5mm Make: AMX / Kramer / Extron STC of Equipment Rack With lockable rear and front glass door, power strip, castor wheel for easy movement. Large cable entry in bottom Grounding and bonding stud installed in base. Finish in a durable textured powder coat for all the above audio main systems. (Make: EXTRON / Valrack / President) Will Cable 15 Mtr, HDMI Cable 3 Mtrs, VGA patch cord					
Voltage Gain-25 dB Speaker output 80, 70V/100V Built-in band-pass filter (80Hz to 16kHz) Mountable Desktop & 19' rack. Make- QSC/ BOSE / Extron STC of AV Recorder: Should Capture HD footage, Pause & resume recording facility should be available Recording through USB A HDD, Storage: ZTB HDD (Internal/External) Input. HDMI, Component video & audio L/R, 3.5 Audio, Microphone, Output: HDMI, Headphone, 3,5mm audio, 19'' Rack mountable, Data Transfer through USB to Computer, Power on auto play, (Make- DENON / AVERMEDIA / PANASONIC) TSTC of Speaker cable 2 core of high quality with minimum data loss, 1.13mm, AWG-16.foil-shielded, twisted-pair, Capacitance: 8.5 pF (per foot at a frequency of 10 kHz) Conductor Stranded bare copper, Insulation PVC. Make: AMX / Kramer / Extron STC of Microphone Cable High quality with minimum data loss, 0.4mm, AWG-20, ruggedness, flexibility, flex life and interference immunity. Low impedance, Operating Temperature Range:-30°C To +60°C, Overall Nominal Diameter:5mm Make: AMX / Kramer / Extron STC of Equipment Rack With lockable rear and front glass door, power strip, castor wheel for easy movement. Large cable entry in bottom Grounding and bonding stud installed in base. Finish in a durable textured powder coat for all the above audio main systems. (Make- EXTRON / Valrack / President) Make: EXTRON / Valrack / President) Make: Land Cable 15 Mtr, HDMI Cable 15 Mtrs, VGA patch cord		· · · · · · · · · · · · · · · · · · ·			
Speaker output 80, 70V/100V Built-in band-pass filter (80Hz to 16kHz) Mountable Desktop & 19" rack. Make- OSC / BOSE / Extron SITC of AV Recorder: Should Capture HD footage, Recording through USB & HDD, Storage: 2TB HDD (Internal/External) Input: HDMI, Component video & audio L/R, 3.5 Audio, Microphone, Output: HDMI, Component video & audio L/R, 3.5 Audio, Microphone, Output: HDMI, Headphone, 3,5mm audio, 19" Rack mountable, Data Transfer through USB to Computer, Power on auto play, (Make- DENON / AVERMEDIA / PANASONIC) SITC of Speaker cable 2 core of high quality with minimum data loss, 1.13mm, AWG-16.foil-shielided, twisted-pair, Capacitance: 8,5 pf (per foot at a frequency of 10 kHz) Conductor Stranded bare copper, Insulation PVC. Make: AMX / Kramer / Extron SITC of Microphone Cable High quality with minimum data loss, O-4mm, AWG-20, ruggedness, flexibility, flex life and interference immunity. Low impedance, Operating Temperature Range:-30°C To +60°C, Overall Nominal Diameter:5mm Make: AMX / Kramer / Extron SITC of Equipment Rack With lockable rear and front glass door, power strip, castor wheel for easy movement. Large cable entry in bottom Grounding and bonding stud installed in base. Finish in a durable textured powder coat for all the above audio main systems. Will Rable 15 Mtr, HDMI Cable 3 Mtrs, VGA patch cord Length: as per site requirements		· · · · · · · · · · · · · · · · · · ·			
Built-in band-pass filter (80Hz to 16kHz) Make-QSC / BOSE / Extron SITC of AV Recorder: Should Capture HD footage, Pause & resume recording facility should be available Recording through USB & HDD, Storage: 2TB HDD (Internal/External) Input: HDMI, Component video & audio L/R, 3.5 Audio, Microphone, Output: HDMI, Headphone, 3,5mm audio, If yow a late Transfer through USB to Computer, Power on auto play, Make-DENON / AVERMEDIA / PANASONIC) SITC of Speaker cable Quality of this part of the state of the stat					
Make-QSC / BOSE / Extron 6 SITC of AV Recorder: • Should Capture HD footage, Pause & resume recording facility should be available Recording through USB & HDD. • Storage: 2TB HDD (Internal/External) • Input: HDMI, Component video & audio L/R, 3.5 Audio, Microphone, Output: HDMI, Headphone, 3,5mm audio, • 19" Rack mountable, Data Transfer through USB to Computer, Power on auto play, (Make-DENON / AVERMEDIA / PANASONIC) 7 SITC of Speaker cable • 2 core of high quality with minimum data loss, • 1.13mm, AWG-16.foil-shielded, twisted-pair, • Capacitance: 8.5 pF (per foot at a frequency of 10 kHz) • Conductor Stranded bare copper, Insulation PVC. Make: AMX / Kramer / Extron 8 SITC of Microphone Cable • High quality with minimum data loss, • 0.4mm, AWG-20, ruggedness, flexibility, flex life and interference immunity, Low impedance, • Operating Temperature Range:-30°C To +60°C, Overall Nominial Diameter:5mm Make: AMX / Kramer / Extron 9 SITC of Equipment Rack • With lockable rear and front glass door, power strip, castor wheel for easy movement. Large cable entry in bottom • Grounding and bonding stud installed in base, • Finish in a durable textured powder coat for all the above audio main systems. (Make-EXTRON / Valrack / President) 10 • Bulk Connectors for complete systems (Audio, Video projection etc.) • HDMI Cable 3 Mtrs, • VGA patch cord Length: as per site requirements					
Make- QSC / BOSE / Extron STC of AV Recorder: • Should Capture HD footage, • Pause & resume recording facility should be available • Recording through USB & HDD, • Storage: 2TB HDD (Internal/External) • Input: HDMI, Component video & audio L/R, 3.5 Audio, Microphone, • Output: HDMI, Headphone, 3,5mm audio, • 19" Rack mountable, • Data Transfer through USB to Computer, • Power on auto play, (Make- DENON / AVERMEDIA / PANASONIC) 7 SITC of Speaker cable • 2 core of high quality with minimum data loss, • 1.13mm, AWG-16.foil-shielded, twisted-pair, • Capacitance: 8.5 pF (per foot at a frequency of 10 kHz) • Conductor Stranded bare copper, • Insulation PVC. Make: AMX / Kramer / Extron 8 SITC of Microphone Cable • High quality with minimum data loss, • 0.4mm, AWG-20, ruggedness, flexibility, flex life and interference immunity. • Low impedance, • Operating Temperature Range: 30°C To +60°C, • Overall Nominal Diameter:5mm Make: AMX / Kramer / Extron 9 SITC of Equipment Rack • With lockable rear and front glass door, power strip, castor wheel for easy movement. • Large cable entry in bottom • Grounding and bonding stud installed in base. • Finish in a durable textured powder coat for all the above audio main systems. (Make- EXTRON / Valrack / President) 10 • Bulk Connectors for complete systems (Audio, Video projection etc.), • HDMI Cable 15 Mtr, • VGA patch cord Length: as per site requirements		 Built-in band-pass filter (80Hz to 16kHz) 			
SITC of AV Recorder: Should Capture HD footage, Pause & resume recording facility should be available Recording through USB & HDD, Storage: 2TB HDD (Internal/External) Input: HDMI, Component video & audio L/R, 3.5 Audio, Microphone, Output: HDMI, Headphone, 3,5mm audio, 19" Rack mountable, Data Transfer through USB to Computer, Power on auto play, (Make- DENON / AVERMEDIA / PANASONIC) SITC of Speaker cable 2 core of high quality with minimum data loss, 1.13mm, AWG-16.foil-shielded, twisted-pair, Capacitance: 8.5 pF (per foot at a frequency of 10 kHz) Conductor Stranded bare copper, Insulation PVC. Make: AMX / Kramer / Extron SITC of Microphone Cable High quality with minimum data loss, O.4mm, AWG-20, ruggedness, flexibility, flex life and interference immunity. Low impedance, Operating Temperature Range:-30°C To +60°C, Overall Nominal Diameter:5mm Make: AMX / Kramer / Extron SITC of Equipment Rack With lockable rear and front glass door, power strip, castor wheel for easy movement. Large cable entry in bottom Grounding and bonding stud installed in base. Finish in a durable textured powder coat for all the above audio main systems. (Make- EXTRON / Valrack / President) Bulk Connectors for complete systems (Audio, Video projection etc.), HDMI Cable 3 Mtrs, VGA patch cord Length: as per site requirements		 Mountable Desktop & 19" rack. 			
Should Capture HD footage, Pause & resume recording facility should be available Recording through USB & HDD, Storage: 2TB HDD (Internal/External) Input: HDMI, Component video & audio L/R, 3.5 Audio, Microphone, Output: HDMI, Headphone, 3,5mm audio, 19" Rack mountable, Data Transfer through USB to Computer, Power on auto play, (Make- DENON / AVERMEDIA / PANASONIC) SITC of Speaker cable 2 core of high quality with minimum data loss, 1.13mm, AWG-16.foil-shielded, twisted-pair, Capacitance: 8.5 pF (per foot at a frequency of 10 kHz) Conductor Stranded bare copper, Insulation PVC. Make: AMX / Kramer / Extron SITC of Microphone Cable High quality with minimum data loss, O.4mm, AWG-20, ruggedness, flexibility, flex life and interference immunity. Low impedance, Operating Temperature Range::30°C To +60°C, Overall Nominal Diameter:5mm Make: AMX / Kramer / Extron SITC of Equipment Rack With lockable rear and front glass door, power strip, castor wheel for easy movement. Large cable entry in bottom Grounding and bonding stud installed in base. Finish in a durable textured powder coat for all the above audio main systems. (Make- EXTRON / Valrack / President) Bulk Connectors for complete systems (Audio, Video projection etc.), HDMI Cable 3 Mtrs, VGA patch cord Length: as per site requirements		Make- QSC / BOSE / Extron			
Should Capture HD footage, Pause & resume recording facility should be available Recording through USB & HDD, Storage: 2TB HDD (Internal/External) Input: HDMI, Component video & audio L/R, 3.5 Audio, Microphone, Output: HDMI, Headphone, 3,5mm audio, 19" Rack mountable, Data Transfer through USB to Computer, Power on auto play, (Make- DENON / AVERMEDIA / PANASONIC) SITC of Speaker cable 2 core of high quality with minimum data loss, 1.13mm, AWG-16.foil-shielded, twisted-pair, Capacitance: 8.5 pF (per foot at a frequency of 10 kHz) Conductor Stranded bare copper, Insulation PVC. Make: AMX / Kramer / Extron SITC of Microphone Cable High quality with minimum data loss, O.4mm, AWG-20, ruggedness, flexibility, flex life and interference immunity. Low impedance, Operating Temperature Range::30°C To +60°C, Overall Nominal Diameter:5mm Make: AMX / Kramer / Extron SITC of Equipment Rack With lockable rear and front glass door, power strip, castor wheel for easy movement. Large cable entry in bottom Grounding and bonding stud installed in base. Finish in a durable textured powder coat for all the above audio main systems. (Make-EXTRON / Valrack / President) Bulk Connectors for complete systems (Audio, Video projection etc.), HDMI Cable 3 Mtrs, VGA patch cord Length: as per site requirements	6	SITC of AV Recorder:	1		
Pause & resume recording facility should be available Recording through USB & HDD, Storage: 2TB HDD (Internal/External) Input: HDMI, Component video & audio L/R, 3.5 Audio, Microphone, Output: HDMI, Headphone, 3,5mm audio, 19° Rack mountable, Data Transfer through USB to Computer, Power on auto play, (Make- DENON / AVERMEDIA / PANASONIC) SITC of Speaker cable 2 core of high quality with minimum data loss, 1.13mm, AWG-16.foil-shielded, twisted-pair, Capacitance: 8.5 pf (per foot at a frequency of 10 kHz) Conductor Stranded bare copper, Insulation PVC. Make: AMX / Kramer / Extron SITC of Microphone Cable High quality with minimum data loss, 0.4mm, AWG-20, ruggedness, flexibility, flex life and interference immunity. Low impedance, Operating Temperature Range:-30°C To +60°C, Overall Nominal Diameter:5mm Make: AMX / Kramer / Extron SITC of Equipment Rack With lockable rear and front glass door, power strip, castor wheel for easy movement. Large cable entry in bottom Grounding and bonding stud installed in base. Finish in a durable textured powder coat for all the above audio main systems. Make: EXTRON / Valrack / President) Bulk Connectors for complete systems (Audio, Video projection etc.), HDMI Cable 15 Mtr, HDMI Cable 15 Mtrs, VGA patch cord Length: as per site requirements					
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Date: 21.06.2016

III. Annual Maintenance Charges

S. No.	Item Description	Annual Maintenance Charges for 2 nd , 3 ^{rd,} 4 th and 5 th years in Rupees # (Taxes Extra)			
		2 nd year	3 rd year	4 th year	5 th year
	Entire Video Conference System as detailed in the technical bid				
	Total AMC for 4 years				

SUMMARY

S. No.	Description	Amount in Rupees
1	Total Cost of Video Equipments with 1 year warranty (As per Total of item I)	
2	Total Cost of Audio Equipments with 1 year warranty (As per Total of item II)	
3	Total AMC Charges (As per Total of item II)	
	Grand Total (Total of S.No.1, 2 & 3)	

Note: 1. Price to include all duties, levies, freight, insurance, warranty, AMC etc and buyback cost of old equipments but exclusive of VAT/CST, octroi/entry tax. Octroi or entry tax, if applicable, shall be reimbursed at actuals, against proof of payment in original.

- 1.Bidder should ensure to have visited the site and understood the scope of work before quoting rates. No claims will be entertained by Bank beyond the quoted amount for any additional work necessitated for commissioning of the system.
- 2.In case of discrepancy between unit price and total price, the unit price shall prevail.

3.

We submit that we will abide by the details given above and the conditions given in your above Bid document.

Place:		
Date:		
	Signature of Authorised Person	
	Name	
	Business address	