

Annexure-'C'						
Schedule of Quantities I-Estimate						
Item No.	Item Description	Make/Model	Unit	Quantity	Rate exclusive of taxes in Figures(Rs.) (A)	Total
I	Supply, Installation,Testing and Commissioning(SITC) Works					
A - Audio System						
A-1	SITC of Wireless Microphone Unit					
A-1.1	Configurable wireless microphone unit(Base Unit) with Gooseneck Mic.	Televic or Bosch or Shure	Nos.	25		
A-1.2	Base unit can be configured to work as either Chairman or Delegate unit.					
A-1.3	The Gooseneck Mic should be detachable from the base unit					
A-1.4	The Base unit should have Min. 5.2" or better touch screen integrated with light sensor for automatic brightness adjustment and anti fingerprint coating					
A-1.5	The Gooseneck Mic should be of Min. 480mm or better					
A-1.6	Mic Polar Pattern: Cardoid or better					
A-1.7	Should have multifunctional button/ buttons for functionalities like start / stop recording, meeting state control, agenda control etc					
A-1.8	Should support standard WiFi5 or better					
A-1.9	Should support minimum WPA2 enterprise encryption.					
A-1.10	Microphone should be easy to mount and locked nce connected with the base unit.					
A-1.11	Should have option to power the units via power adapter. Power adatper to be provided with the unit					
A-1.12	Should include hot swappable 01 x rechargeable battery and 01 x additonal rechargeable battery with long hours backup of 12hrs or better.					
A-1.13	Should be certified with BIS/UL/ETL/CB/IEC0950/CE/EMC/FCC.					
A-1.14	Should be of the same OEM as that of line item #A-4					
A-2	SITC of Digital Microphone Unit					
A-2.1	Should be a combination of Base Unit and Gooseneck Mic					
A-2.2	Base unit can be configured to work as either Chairman or Delegate unit.					
A-2.3	The Gooseneck Mic should be detachable from the base unit					
A-2.4	The Base unit should have 5" or better capactive touch screen.					
A-2.5	The Gooseneck Mic should be of Min. 480mm or better					
A-2.6	Mic Polar Pattern: Cardoid or better					

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Item No.	Item Description	Make/Model	Unit	Quantity	Rate exclusive of taxes in Figures(Rs.) (A)	Total
A-2.7	Should have multifunctional button/ buttons for functionalities like start / stop recording, meeting state control, agenda control etc	Televic or Bosch or Audio Technica	Nos.	90		
A-2.8	The Mic should have configurable Red or Green LED indicator as per requirement.					
A-2.9	The Base unit should contain atleast One Mic button and Mic Connection to connect the Gooseneck Mic along with this one priority button should be there to override the delegate units					
A-2.10	The base unit should connect with Main control unit over RJ45 connection and also have a loop out to connect with another base unit.					
A-2.11	Should be certified with BIS/UL/ETL/CB/IEC0950/CE/EMC/FCC.					
A-2.12	Should be of the same OEM as that of line item #A-3					
A-2.13	The color & finish of the base unit shall be decided at the time of ordering as per the instruction of Engineer in charge					
A-3	SITC of Digital Control unit Type A	Televic or Bosch or Audio Technica	No.	6		
A - 3.1	Master control unit to manage the delegate and chairman units.					
A - 3.2	Should supports modes like Direct Speak, Request and Operator which can be configured as required					
A - 3.3	The unit must have min. 3 or more LAN ports to connect with line item #A-2					
A - 3.4	Should be Dante Enabled to communicate with line item #A-5					
A - 3.5	Should be able to power all the device mentioned in line item #A-2, additional hardware to be considered if required					
A - 3.6	Should be able to power all the device mentioned in line item #A-2					
A - 3.7	Should be Rack Mountable					
A - 3.8	Communication & Control port: Ethernet/RS232					
A - 3.9	Should be of the same OEM as that of line item #A-2					
A-4	SITC of Digital Control Unit Type B					
A-4.1	Should support standard WiFi5, IEEE802.11ac. or better					
A-4.2	Should support upto 50 or more wireless devices.					
A-4.3	Should have minimum range of 40 m or better.					
A-4.4	Should include browser based configuration and monitoring software.					

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Item No.	Item Description	Make/Model	Unit	Quantity	Rate exclusive of taxes in Figures(Rs.) (A)	Total	GST %
	Should be intelligent enough to automatically mitigate multipath effect resulting in robust wireless link with the base unit	Televic or Bosch or Shure	Nos.	1			
A-4.5	Should have latency of less than 16 ms or better.						
A-4.6	Audio: 48 kHz / 24 bit or better						
A-4.7	Should have Frequency response of 20 Hz - 20 kHz or better						
A-4.8	Should have THD < 0.02 % or better						
A-4.9	Should have signal to noise ratio > 95 dBA or better						
A-4.10	Should be Dante Enabled to communicate with line item #A-5						
A-4.11	Should be included with charging dock to charge the wireless Microphones						
A-4.12	Should have 10 or more battery slots for charging with real time LED indications.						
A-4.13	Quantity of charging dock should be good enough to charge all the units at the same time						
A-4.14	Should include power supply unit and necessary mounting accessories.						
A-4.15	Should be certified with BIS/UL/ETL/CB/IEC0950/CE/EMC/FCC.						
A-4.16	Should be of the same OEM as that of line item #A-1						
A-5	SITC of Digital Signal Processor						
A - 5.1	Rack mountable and feature software-configurable signal processing, including but not limited to: signal routing and mixing, equalization, filtering, dynamics, and delay, as well as control, monitoring, and diagnostic tools	QSC or Xilica or Biamp	No.	7			
A - 5.2	Audio DSP should support each microphone for the number of AEC inputs						
A - 5.3	Audio DSP should have minimum (12) independent software/hardware AEC (Acoustic Echo cancellation) inputs						
A - 5.4	Audio DSP should have minimum (06) Analog Inputs and (04) Analog outputs						
A - 5.5	Audio DSP should support 32 x 32 Dante channels						
A - 5.6	All microphone inputs including ones coming over Dante should have AEC						
A - 5.7	Audio DSP should support both input & output channels for routing USB audio						
A - 5.8	Communication & Control port: Ethernet/RS232						
A - 5.9	FCC & RoHS compliant						
A - 5.10	Should support DANTE/AVB/Proprietary bus link for communication specified in item #A-3, A-4, A-6, A-7						
A-6	SITC of Network Power Amplifier						

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Item No.	Item Description	Make/Model	Unit	Quantity	Rate exclusive of taxes in Figures(Rs.) (A)	Total	GST %
A-6.1	Should be DANTE digital network power amplifier	Bose PS404D or QSC CX-Q 2K4 or Biamp Community ALC-404D	Nos.	18			
A-6.2	Total Number of channels: 4 channels						
A-6.3	Power @ 4/8 ohms : minimum 100W per channel						
A-6.4	THD: <0.05%						
A-6.5	SNR (A-weighted) : > 100dB						
A-6.6	Should support DANTE for communication specified in item #A-4,A-5						
A-7	SITC of Powered Column Speakers						
A-7.1	Type: Full Range or 2-way or 3 way Powered digital Steerable coloum Speaker	Bose MSA12X or Fohhn Audio - Focus Slim 150 or Renkus Heinz	Nos.	12			
A-7.2	Column speaker should have Analogue input and AES/EBU or Dante						
A-7.3	Should have minimum 12 Drivers or more; Size of each Driver: Min. 2" or better						
A-7.4	Minimum Efficiency/ Sensitivity : 94 dB SPL or better						
A-7.5	Frequency Response (-10dB): 130 Hz - 17 KHz or better						
A-7.6	Nominal Dispersion: not more than 180 degrees conical (Horizontal) and between 10 to 40 degree (Vertical)						
A-7.7	OEM approved wall mount mechanism for loudspeaker installation						
A-7.8	The Color of the loudspeaker shall be decided at the time of ordering as per the instructions of Engineer In charge.						
A-8	SITC of Ceiling Loudspeakers						
A-8.1	Type: Full Range or 2-way	Bose FS4CE or QSC AD-C6T or Biamp Desono DX-1C6	Nos.	66			
A-8.2	Should have minimum 4.25" woofer (LF driver) or better						
A-8.3	Minimum Efficiency/ Sensitivity : 88 dB SPL or better						
A-8.4	Frequency Response (-10dB): 90 Hz - 17 KHz or better						
A-8.5	Power Handling: Low-Z, continuous 40W continuous @ 8 Ohms/70V/100V or better						
A-8.6	Nominal Dispersion: not more than 148 degrees conical						
A-8.7	OEM approved ceiling mechanism for loudspeaker installation						
A-8.8	Should be of the same OEM as that of line item #A-12,A-13						
A-8.9	The Color of the loudspeaker shall be decided at the time of ordering as per the instructions of Engineer In charge.						
A-9	SITC of Stage Monitor Speaker						
A-9.1	Single 8" or better speaker -LF (1) 8-inch or better		Nos.	2			
A-9.2	HF (1) 1.25-inch or better						
A-9.3	Suitable for main PA and stage monitor						
A-9.4	It can be used for monitoring applications or portable type						



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Item No.	Item Description	Make/Model	Unit	Quantity	Rate exclusive of taxes in Figures(Rs.) (A)	Total	GST %
B - 1.13	Cables, accessories, mounting kit required to complete the installation must be included, buffer should be in the form of full cabinets/Spares including modules, to be placed on site.						
<b>B-2</b>	<b>SITC of Display Type A</b>						
B-2.1	Screen size: 108" to 115" diagonal or bigger	<b>LG or Sony or Samsung or Panasonic</b>	Nos.	1			
B-2.2	Native Resolution :3840*2160 (4K UHD) or better						
B-2.3	Aspect Ratio: 16:9 or 16:10						
B-2.4	Back Light Refresh Rate: 60Hz or better						
B-2.5	Brightness: 500 nits or better						
B-2.6	Viewing angle: 178 x 178 minimum vertically and horizontally or better						
B-2.7	Should have minimum (01) HDMI, (01) USB and Audio inputs or better						
B-2.8	Should have (01) RS232, (01) RJ45 ports for control						
B-2.9	Should have built-in loudspeaker						
B-2.10	Includes OEM approved mounting kit with sufficient space behind the display to house AV devices (study the drawings/site before quoting).						
<b>B-3</b>	<b>SITC of Display Type B</b>						
B-3.1	Screen size: 98" diagonal or bigger	<b>LG or Sony or Samsung or Panasonic</b>	Nos.	5			
B-3.2	Native Resolution :3840*2160 (4K UHD) or better						
B-3.3	Aspect Ratio: 16:9						
B-3.4	Back Light Refresh Rate: 60Hz or better						
B-3.5	Brightness: 350 nits or better						
B-3.6	Viewing angle: 178 x 178 minimum vertically and horizontally or better						
B-3.7	Should have minimum (01) HDMI, (01) USB and Audio inputs or better						
B-3.8	Should have (01) RS232, (01) RJ45 ports for control						
B-3.9	Should have built-in loudspeaker						
B-3.10	Includes OEM approved mounting kit with sufficient space behind the display to house AV devices (study the drawings/site before quoting).						
<b>B-4</b>	<b>SITC of Display Type C</b>						
B-4.1	Screen size: 85" diagonal or bigger	<b>LG or Sony or Samsung or Panasonic</b>	Nos.	9			
B-4.2	Native Resolution :3840*2160 (4K UHD) or better						
B-4.3	Aspect Ratio: 16:9						
B-4.4	Back Light Refresh Rate: 60Hz or better						
B-4.5	Brightness: 350 nits or better						
B-4.6	Viewing angle: 178 x 178 minimum vertically and horizontally or better						
B-4.7	Should have minimum (01) HDMI, (01) USB and Audio inputs or better						
B-4.8	Should have (01) RS232, (01) RJ45 ports for control						







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Item No.	Item Description	Make/Model	Unit	Quantity	Rate exclusive of taxes in Figures(Rs.) (A)	Total	GST %
B-11	SITC of All in one Video Bar Type A						
B-11.1	The architecture must be open Standard based and should have built in camera, Mics and speakers	Poly X52 or Cisco Webex Room Bar Pro	Nos.	8			
B-11.2	This includes standards such as the H.264, H.265						
B-11.3	The system should support both IPv4 and IPv6						
B-11.4	Should support 30 fps with 1080p resolution						
B-11.5	Ability to send and receive two live simultaneous video sources in a single call, so that the image from the main camera and PC or document camera can be seen simultaneously.						
B-11.6	H.239 dual stream support for sending both video and presentation signal						
B-11.7	Must have Min. (01) USB A Port to connect with additional camera if required						
B-11.8	Must have 1 HDMI input to connect one laptops/PC for presentations supporting resolution upto 1080p30fps.						
B-11.9	Must have (01) USB C Port which will route the connected Cameras and audio signals to laptop for BYoD/BYoM applications						
B-11.10	It should transmit content to the far end location up to 4K@15fps during the video call						
B-11.11	Should have at least 2 no.'s of HDMI output to connect Full High Definition display devices such as plasma and projectors for both Video and Content.(Dual Monitor Support).						
B-11.12	Should support audio standards: G.711, G.722, G.722.1, G.728, G.729 or better						
B-11.13	Noise Reduction, Automatic Gain control, Acoustic Echo Canceller						
B-11.14	1 LAN /Ethernet--10/100/1000 Mbps full duplex						
B-11.15	Should be interoperable with all legacy VC systems, like Standard Definition VC system.						
B-11.16	Auto Gatekeeper Discovery, IP Precedence & QoS with support for H.323 based lost packet recovery.						
B-11.17	Media Encryption (H.323, SIP): AES-256						
B-11.18	Should have latest generation Beamforming / Array Mics for audio pick up in the room with a pick up range of Min. 6 m						
B-11.19	Should have Min. 2x 10 W RMS Speakers						
B-11.20	Should have cameras for tracking the active speaker in the room with a zoom capability of Min. 5x digital						
B-11.21	Should be supplied with 10" table top touch panel and necessary mounting accessories						
B-11.22	Should include additional table top Mics from the same OEM as part of the tender.(refer to the sld)						
B-12	SITC of All in one Video Bar Type B						
B-12.1	The architecture must be open Standard based and should have built in camera, Mics and speakers						
B-12.2	Must have (01) USB C Port which will route the connected Cameras and audio signals to laptop for BYoD/BYoM applications						

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Item No.	Item Description	Make/Model	Unit	Quantity	Rate exclusive of taxes in Figures(Rs.) (A)	Total	GST %
B-14.9	Should be included with appropriate mounting kit for wall/ ceiling mount as per site requirement						
B-14.10	The color of the camera shall be decided at the time of ordering as per the instruction of Engineer in charge						
B-14.11	Should have CE/FCC/BIS						
<b>B-15</b>	<b>SITC of AV over IP Encoder/Transceiver</b>						
B-15.1	Should Support 4K visually lossless over 1Gbps network						
B-15.2	Should support upto 4K 4:4:4 @60Hz Resolution						
B-15.3	Should have minimum (01) HDMI input.						
B-15.4	Should be capable of handling USB 2.0 signal routing by connecting all USB Peripherals from multiple Transceiver/decoder boxes, additional hardware from same OEM can be considered to achieve this functionality if required.						
B-15.5	Hardware appliance to facilitates configuration, control, and management of Transceivers or encoder or decoders part of tender	<b>Crestron or Extron or Lightware</b>	Nos.	43			
B-15.6	Should have Lower than 1.5 frame latency						
B-15.7	POE+ powered (IEEE 802.3at Type 2)						
B-15.8	Should support AES67/Dante/Balanced Audio Input						
B-15.9	Should have LAN, RS-232 Control Ports						
B-15.10	Should support AES-128 encryption, 802.1X, SSH						
B-15.11	Should have J1TC/FIPS/NIAP/FCC						
B-15.12	Should include power supply unit and necessary mounting accessories.						
B-15.13	Should be of same OEM as that of B-21						
B-15.14	Should be compatible with the control processor (Item # C-1) & Network switch (item # D-15)						
<b>B-16</b>	<b>SITC of AV over IP Decoder/Transceiver</b>						
B-16.1	Should Support 4K visually lossless over 1Gbps network						
B-16.2	Should support upto 4K 4:4:4 @60Hz Resolution						
B-16.3	Should have minimum (01) HDMI output.						
B-16.4	Should be capable of routing the connected USB 2.0 Peripherals to the Transceiver/Encoder box. Additional hardware from same OEM can be considered to achieve this functionality if required.						
B-16.5	Hardware appliance to facilitates configuration, control, and management of Transceivers or encoder or decoders part of tender	<b>Crestron or Extron or Lightware</b>	Nos.	52			
B-16.6	Should have Lower than 1.5 frame latency						
B-16.7	POE+ powered (IEEE 802.3at Type 2)						
B-16.8	Should support AES67/Dante/Balanced Audio Output						
B-16.9	Should have LAN, RS-232 Control Ports						
B-16.10	Should support AES-128 encryption, 802.1X, SSH						





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Item No.	Item Description	Make/Model	Unit	Quantity	Rate exclusive of taxes in Figures(Rs.) (A)	Total	GST %
B-20.16	Should be interoperable with all legacy VC systems, like Standard Definition VC system.						
B-20.17	Auto Gatekeeper Discovery, IP Precedence & QoS with support for H.323 based lost packet recovery.						
B-20.18	Media Encryption (H.323, SIP): AES-256						
B-20.19	Control: RS-232/USB/LAN (Incase of USB necessary convertor to be considered) for controlling the device from control processor specified in line item #C-1						
B-20.20	In case the above feature is not available natively, then additional components can be provided to achieve this.						
<b>B-21</b>	<b>SITC of Multiwindow Processor</b>						
B-21.1	Rack-mountable multi-window processor for combining (04) HDMI into four windows on a single HDMI output	Crestron HD-WP-4K-401-C or Extron MGP 641 xi or Analogway	Nos.	1			
B-21.2	Provide storage and recall of video parameters and picture settings over a manual preset and recalled via RS-232/422/Ethernet connection						
B-21.3	Output: (01) HDMI						
B-21.4	Should have (01) RS-232/Ethernet port for control						
B-21.5	Provide four-window or side-by-side or picture-in-picture (PIP) layouts						
B-21.6	Support EDID & HDCP compliant						
B-21.7	Support 4K30 4:4:4 format or better						
B-21.8	Should be equipped with power supply						
B-21.9	Built-In Web Interface or application to configure & manage the layouts						
<b>B-22</b>	<b>SITC of Annotation Processor</b>						
B-22.1	Hardware based annotation processor with capability of live annotation on presentation as well as video	Extron Annotator 401 or Equivalent	Nos.	1			
B-22.2	Should have Min. (01) HDMI 2.0 Input						
B-22.3	Should have Min. (02) 4K/60 4:4:4 HDMI Ouputs, Min. (02) 3.0 USB-A Ports for connecting the touch display						
B-22.4	Should support various upto resolution from 640x480 upto 4096x2160						
B-22.5	Shall provide real-time annotation capabilities over the displayed video output like Drawing, pointing over both video and images						
B-22.6	Should be HDCP 2.3 complaint						
B-22.7	Control: RS-232/Lan (Ethernet)						
B-22.8	Should be rack mountable and be supplied with necessary mounting accessories						
B-22.9	Should have CE/UL/FCC						
<b>B-23</b>	<b>SITC of Display Type G</b>						

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Item No.	Item Description	Make/Model	Unit	Quantity	Rate exclusive of taxes in Figures(Rs.) (A)	Total	GST %
B-23.1	Screen size: 75" diagonal or better	LG or Sony or Samsung or Panasonic	Nos.	4			
B-23.2	Should be android based display or should be OEM proprietary OS.						
B-23.3	Should support installation of any third party application like Youtube, Netflix, etc. as per client requirement						
B-23.4	Should have builtin memory 1.2 GB or better to support the installation of these apps.						
B-23.5	Native Resolution : 3840*2160 (4K UHD) or better						
B-23.6	Aspect Ratio: 16:9						
B-23.7	Back Light Refresh Rate: 60Hz or better						
B-23.8	Brightness: 250 nits or better						
B-23.9	Viewing angle: 178 x 178 minimum vertically and horizontally or better						
B-23.10	Should have minimum (01) HDMI, (01) USB and Audio inputs or better						
B-23.11	Should have (01) RJ45 port						
B-23.12	Should have built-in loudspeaker						
B-23.13	Includes OEM approved mounting kit with sufficient space behind the display to house AV devices (study the drawings/site before quoting).						
B-24	SITC of Display Type H	LG or Sony or Samsung or Panasonic	Nos.	4			
B-24.1	Screen size: 65" diagonal or bigger						
B-24.2	Should be android based display or should be OEM proprietary OS.						
B-24.3	Should support installation of any third party application like Youtube, Netflix, etc. as per client requirement						
B-24.4	Should have builtin memory 1.2 GB or better to support the installation of these apps.						
B-24.5	Native Resolution : 3840*2160 (4K UHD) or better						
B-24.6	Aspect Ratio: 16:9						
B-24.7	Back Light Refresh Rate: 60Hz or better						
B-24.8	Brightness: 250 nits or better						
B-24.9	Viewing angle: 178 x 178 minimum vertically and horizontally or better						
B-24.10	Should have built in OS to access various applications.						
B-24.11	Should have minimum (01) HDMI, (01) USB and Audio inputs or better						
B-24.12	Should have (01) RJ45 port						
B-24.13	Should have built-in loudspeaker						
B-24.14	Includes OEM approved mounting kit with sufficient space behind the display to house AV devices (study the drawings/site before quoting).						
C- Control System							
C-1	SITC of Control Processor						
C - 1.1	Real-time, Multitasking Control processor						
C - 1.2	Minimum 4 GB Flash						

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C-3.5	Should be compatible with network switch part of tender item #D-15					
C-3.6	Necessary mounting kit, to be included while Quoting					
<b>C-4</b>	<b>SITC of iPad Pro</b>					
C-4.1	Should be 12.9 inch diagonal latest generation Ipad pro					
C-4.2	Should have storage of 128 GB or better					
C-4.3	Should have Wifi Connectivity					
C-4.4	Should have necessary software to work with control system specified in line item # C-1					
C-4.5	Should include latest generation Apple pencil & magic keyboard					
C-4.6	Should include 2 meter USB-C charging cable & 30W USB-C power adaptor					
<b>C-5</b>	<b>SITC of Security Mount For iPad Pro 12.9"</b>					
C-5.1	Should be compatible with 12.9 inch diagonal screen size iPad pro					
C-5.2	Charging cable include fast charger of 20W , charging cable of length 2meter					
C-5.3	Should have security lock with thin wire attached to the IPad pro & docking station for theft protection					
<b>C-6</b>	<b>SITC of Button Panel Controller</b>					
C - 6.1	Button Panel control processor having min. 6 Configurable Buttons and Volume +/- and Mute Buttons					
C - 6.2	Minimum 512 MB Flash					
C - 6.3	(01) LAN/Ethernet Port to communicate with the AV Devices					
C - 6.4	Minimum (1) RS-232/422/485 (bi-directional) ports					
C - 6.5	Minimum (1) IR/serial ports					
C - 6.6	Minimum (2) Low Voltage relay ports					
C - 6.7	Minimum (1) I/O ports					
C - 6.8	Should support customized naming of the buttons and engraving of these buttons to be included					
C - 6.9	Exclusive modular programming architecture					
C - 6.10	Should include power supply					
C - 6.11	The color of the unit shall be decided at the time of ordering as per the instruction of Engineer in charge					
<b>C-7</b>	<b>SITC of Presentation Remote</b>					
C-7.1	Should support RF connectivity					
C-7.2	Should be a combination of Transmitter and Reciever Box					
C-7.3	Should be compatible with Windows/Mac					

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C-7.4	Should be compatible with Powerpoint/keynote/PDF/Googleslide/prezi etc.					
C-7.5	Should have rechargeable/replacable battery					
C-7.6	Wireless range of upto 100meter					
D - Installation Hardware						
D-1	SITC of 6' HDMI Cable	Crestron or Extron or Lightware	Nos.	166		
D-1.1	Should Support 4K60 4:4:4 video, 18 Gbps bandwidth					
D-1.2	Gold-plated 19-pin Type A M-M non-slip HDMI connector					
D-1.3	High-flex CL3-rated jacket					
D-1.4	RoHS compliant					
D-2	SITC of 30' HDMI Cable	Crestron or Extron or Lightware	Nos.	14		
D-2.1	Should Support 4K60 4:4:4 video, 18 Gbps bandwidth					
D-2.2	Gold-plated 19-pin Type A M-M non-slip HDMI connector					
D-2.3	High-flex CL3-rated jacket					
D-2.4	RoHS compliant					
D-3	SITC of 6' USB 3.0 A-A Cable	Startech or Cable Wholesale or C2G	Nos.	11		
D-3.1	USB Type-A USB 3.0 Male to USB Type-A (4 pin) Male cable					
D-3.2	Should be USB 3.0 port and supports data transfer rate up to - 5 Gbps					
D-3.3	Backward compatible with USB 2.0 ,USB 1.1 devices					
D-3.4	Should have Nickel Plating					
D-4	SITC of 6' USB 3.0 C-C Cable	Crestron or Extron or Lightware	Nos.	22		
D-4.1	USB Type-C USB 3.0 Male to USB Type-C Male cable					
D-4.2	Should be USB 3.0 port and supports data transfer rate up to - 5 Gbps					
D-4.3	Should Support full feature USB C specs					
D-4.4	Should be compatible with the Universal Auto Switcher specified in line item #B-31					
D-5	SITC of 6' USB 3.0 A-A/B/C Cable	Startech or Cable Wholesale or C2G	Nos.	67		
D-5.1	USB Type-A USB 3.0 Male to USB Type-A/USB Type-B (4 pin)/USB C Male cable					
D-5.2	Should be USB 3.0 port and supports data transfer rate up to - 5 Gbps					
D-5.3	Backward compatible with USB 2.0 ,USB 1.1 devices					



Annexure-'C'						
Schedule of Quantities I-Estimate						
Item No.	Item Description	Make/Model	Unit	Quantity	Rate exclusive of taxes in Figures(Rs.) (A)	Total
<b>D-12</b>	<b>SITC of Custom Faceplate</b>					
D-12.1	Should be a single module plate having all the connectors	<b>Custom</b>	Nos.	11		
D-12.2	HDMI 2.0 female to female interface					
D-12.3	USB 3.0 Type A female to Type A female interface and should be backward compatible with USB 2.0,1.1 devices					
D-12.4	USB 3.0 Type C female to Type C female interface					
D-12.5	USBC Connector should be Full Featured USBC Connector					
D-12.6	Should include necessary faceplate & accessories to mount on the operator table					
D-12.7	The Color of the wall plate shall be decided at the time of ordering as per the instructions of Engineer In charge					
<b>D-13</b>	<b>SITC of AV Equipment Rack</b>					
D-13.1	19", 42U equipment rack 600 X 600 mm with front glass door, power distribution box, internal fans, wheels etc. complete with all accessories.	<b>Valrack or W&amp;Q or Rittal or Netrack or President</b>	Nos.	5		
D-13.2	Floor standing with castor wheels & locking provision.					
D-13.3	Fully wired with power distribution and vent to suit forced Air via Fan					
D-13.4	Lockable front door made of glass with provision for opening the rack from minimum 4 sides					
D-13.5	Vented top Cover and bottom covers with cable entry cut-outs.					
D-13.6	19" angle for rack mounting with provision for recessing mounting angle					
D-13.7	Removable side panels with slam latches					
D-13.8	Fans (Minimum 04 EA.) for cooling of fully populated rack					
D-13.9	RJ- 45 Patch Panels to be included as per requirement for better connectivity.					
D-13.10	Door operated CFL light for rack					
D-13.11	Hardware kit including necessary channels for fixing, the supplied equipment inside the rack & bars for cable management					
D-13.12	Power Distribution Unit (PDU) with spike guard sufficient enough to supply AC power to all the equipment's housed inside rack. The PDU should be supplied with industrial universal socket.					
<b>D-14</b>	<b>SITC of Switched Rack PDU</b>					
D-14.1	230V, 16A with (08) C13 connectors or better	<b>APC or Furman or Aten</b>	Nos.	7		
D-14.2	Full-featured network management interfaces that provide standards-based management via Web, SNMP and Telnet.					
D-14.3	Allows users to configure the sequence in which power is turned on or off for each outlet.					
D-14.4	Should be controllable using control processor part of the bid (item # C - 1)					

Annexure-'C'						
Schedule of Quantities I-Estimate						
Item No.	Item Description	Make/Model	Unit	Quantity	Rate exclusive of taxes in Figures(Rs.) (A)	Total
D-14.5	Indicates overload and warning conditions based on the user-defined alarm thresholds. Alerts users of potential overloaded circuits.					
D-14.6	RoHS Compliant					
D-15	<b>SITC of 48 Port Network POE+ Switch</b>					
D-15.1	Port Capacity: 48 port10/100/1000 Ethernet Ports					
D-15.2	POE+ Support: Should Support minimum at 700 watts					
D-15.3	Stacking: Should support stacking through stacking port for expandability or Interface for Uplink: Should provide 4 slots with small form factor pluggable 10G uplink fibre modules included in the switch					
D-15.4	Should have multicast, IGMP snooping (V2 & V3), QoS, Jumbo frames, compatible with AV over IP transceivers part of bid #item B-20,B-21					
D-15.5	Should be able to create separate VLAN for audio, video & control					
D-15.6	Should be able to handle Bandwidth requirement for all the connected devices					
D-15.7	Should include necessary power supply to increase the POE budget (if required)					
D-15.8	Necessary Power cable & power supply to be included while quoting					
D-15.9	Should be compatible & meets the requirement of AVoverIP, Dante, AES67 etc. specified in item #A-3,A-4,A-5,B-20,B-21,C-1 etc. as per SLD					
D-16	<b>SITC of AV Lectern</b>					
D-16.1	Should be 19" rack type lectern table, durable steel body, intelligent and ergonomic structured					
D-16.2	Should be able to accommodate Goonsneck microphone interface above the podium, sliding tray for placing laptop and documents, keyboard/mouse sliding tray, presentation (01x HDMI, 02x USB) interfaces, grommets, cable manager and any other AV Device that will house in as shown in SLD, etc.					
D-16.3	Should have universal 5/15 ampere sockets as per the functionality/devices inside the lectern, PDU to be supplied along with the lectern table, security lock system with one master key, cable management via wire manager to be also included					
D-16.4	Should have provision of power socket above the lectern to charge the laptop					
D-16.5	Should include the space inside the Lectern to store back-end devices					
D-16.6	Should be mobile for ease of transportation with roller wheels & locking mechanism					
D-16.7	Necessary power cables to be included while quoting					

Annexure-'C'						
Schedule of Quantities I-Estimate						
Item No.	Item Description	Make/Model	Unit	Quantity	Rate exclusive of taxes in Figures(Rs.) (A)	Total
D-17	SITC of IR Probe					
D-17.1	IR Emitter Probe w/Terminal Block Connector	Crestron IRP2 or Extron IR Emitter and Shield Kits or AMX CC-NIRC	Nos.	1		
D-17.2	2-pin terminal block type to connect with control processor part of the bid					
D-17.3	Should be compatible with control processor specified in item # C-1					
I	Sub-Total-I=(A+B+C+D)					
II	Project integration, programming, testing and commissioning charges for above system as per scheme prvided in drawings and to the satisfaction of Consultant/Architect/SBI.(All source codes shall be the property of SBI).		LOT	1		
III	Comprehensive Annual Maintenance Contract Charges and AV Operator Charges					
E-6	Comprehensive Annual Maintenance Contract					
E-6.1	Quarterly Comprehensive Annual Maintenance Contract (CAMC) charges for AV installations to begin after DLP of 3 year (or any extended DLP) for period of 2 years		Years	2		
E-6.2	Sub-Total-(E-6.1+E-6.2)					
E-6.3	GST @ 18% E-6.3					
E-6.4	Total-E-6.5=(E-6.3+E-6.4)					
IV	Grand-Total-IV=(I + II)					
Note-The rates quoted for items Sr. No. A to E shall be inclusive of taxes						

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