

<p align="center">Pre-Bid Meeting Replies RFP for Detailed, Design, Supply, Installation, Testing, Commissioning, Training and maintenance of Audio-Video system of Academic Vihara Classrooms (14 nos. including 1no. smart classroom) at the permanent campus (NIT no. - 08/IIMKASHIPUR/PROJECT/AV/2016-17 dated 11th Dec'2016) Date of Pre-bid Meeting : 26th Dec'2016 (03:00pm)</p>						
S.No	Page No	Clause,	Description	As per Bid Document	Pre-bid Queries from Bidder	Remarks
1	Tender Document Page #77	A VII	Payment schedule	From each running bill, 2.5% of the bill amount shall be deducted as a retention amount subject to maximum of 2.5 % of the contract value (exclusive of comprehensive annual maintenance contract value). It shall be returned without interest after the completion of warranty period of 1 year.	Request you to take PBG of similar amount ie. 2.5% PBG as bid security for 1 Yrs.	No change - tender condition prevails.
2	Tender Document Page #49	S. No 14 - J	Video Conference Unit	Supports minimum 16 Presets for its primary camera.	Request to change it to 10 presets or more	No change- tender condition prevails.
3	Tender Document Page #49	S. No. 14-K	Video Conference Unit	Should support communication protocols standard such as H.263, H.263+, H.263++ , H.264, H.264 as required	Should support communication protocols standard such as H.263, H.263+/H.263++ , H.264, H.264 High Profile as required	No Change- tender condition prevails.
4	Tender Document Page #49	S. No. 14-L	Video Conference Unit	High Definition Multicast Streaming.	We request for removal as there are separate specifications for Recording & Streaming server	High Definition Multicast Streaming is Optional .
5	Tender Document Page #23	S. No. 8 & 9	Access Point	In addition an "Internal Access Point" will be provided to wirelessly connect the Touch Panel (which controls the equipment and other functions). This "Internal Access Point" will be connected to the Ethernet Switch. This shall be in the scope of the bidder	As per Point number 8 of Page 23, Class room is already have multiple Access Point connected to main IIMK network and can be used by touch panel of AV solution therefore point number 9 should be removed or provide the use of this access point.	No Changes- tender condition prevails. This " Internal Access Point " shall be used for Wireless Connectivity of Touch Panel for AV Control .
6	Tender Document Page #54	S. No. 33	Ethernet Switch	Complete with Rack	Please clarify on the rack, like size and use of the same.	" Complete with rack" is deleted .
7	Tender Document Page #54	S. No. 33-B	Ethernet Switch	Option for RPS`	RPS is not supported in 8 port switches so request to remove	" Option for RPS" is deleted
8	Tender Document Page #45	S. No. 3-F	H.264Encoder, Recorder & Streamer	Should have Composite video input & 3G-SDI Input (optional) for the camera.	Both inputs are optional or 3G-SDI only.	Only 3G-SDI is optional.
9	Tender Document Page #48	S. NO. 13-C	Camera for Classroom	1/4-type Exview HAD CCD or better	CCD is an older technology so request you to consider to add CMOS too.	CCD/ CMOS or Better is acceptable
10	Tender Document Page #48	S. NO. 13-C	Camera for Classroom	Output format- VBS, Y/C	VBS and YC are analog signals and as the requirement of the VC is 1080p which is high Definition and should have digital interface so request you to amend it to HDMI / DVI / 3G-SDI	No Change- tender condition prevails.
11	Tender Document Page #48	S. NO. 13-C	Camera for Classroom	Outputs up to 768 x 494	as per above remark resolution should be 1920x1080.	No Change- tender condition prevails.
12	Tender Document Page #48	S. NO. 13-C	Camera for Classroom	Video output : LAN, VBS, Y/C	as per above remark request you to consider LAN/HDMI / DVI / 3G-SDI	No Change- tender condition prevails.
13	Tender Document Page #48	Item No-13 - C	Camera for Classroom (FOR High End High Spec Class):	Sensor : 1/4-type Exview HAD CCD or better	These are proprietary terms of Sony Cameras. , We request you to make it generic by changing it to " 1 / 2.8 type CCD/ CMOS	Sensor : 1/4-or 1/2.8 type Exview HAD CCD/CMOS or better is acceptable
14		Item No-13 - I		Gain : Auto/Manual (-3 dB to +28 dB or higher in steps)	figures mentioned here i.e -3db to 28db are of Sony Cameras: Kindly remove these figures and keep only Gain : Auto/Manual	(-3 dB to +28 dB or higher in steps) is deleted.
15		Item No-13 - M		Video output : LAN, VBS, Y/C	Kindly change it High Definition Sources which are :- HDMI, DVI, 3G-SDI as other input/output sources are Full HD in tender document	No Change- tender condition prevails.
16		Item No-13 - L		Outputs up to 768 x 494	Kindly upgrade it to high resolution output which is : 1920x1080	No Change- tender condition prevails.
17	Tender Document Page #44	Item No. 3	H.264Encoder, Recorder & Streamer	Make: Crestron, AMX, Kramer, Extron	Kindly add Lumens as an approved make under this category as Lumens also has a recording & streaming hardware which is installed in many of the prestigious accounts like IITs and Government Training Institutions	No Change- tender condition prevails.
18	Tender Document Page #50	Item S. No.17 Technical specifications (bb)	Gooseneck Microphone	Make: Beyerdynamic, Shure, Sennheiser.	Kindly approved AKG as accepted make for this tender opportunity	Already approved in the make .
19	Tender Document Page #50	Item S. No.17 Technical specifications (bb)	Gooseneck Microphone	With table top stand	Need clarification on the uses of additional table top stand, since tender document also asked shock mount accessibly for Gooseneck Microphone	"With table top stand" is deleted

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20	Tender Document Page #50	Item S. No.18	UHF Headworn Microphone with Transmitter and Receiver	Make: Beyerdynamic, Shure, Sennheiser.	Kindly approved AKG as accepted make for this tender opportunity	Already approved in the make .
21	Tender Document Page #50	Item S. No.18	UHF Headworn Microphone with Transmitter and Receiver	Quantities Required one number for each class room(s). Total class rooms 14 +1 = 15 nos.	Need Clarification on the distance from one class room to another class room. This is require for RF Interference, while using Wireless Microphones	please quote as per specification.
22	Tender Document Page #50	Item S. No.18	UHF Headworn Microphone with Transmitter and Receiver	Quantities Required one number for each class room(s). Total class rooms 14 +1 = 15 nos.	Also confirmation required for Minimum number of uses for requested UHF Headworn Microphone with Transmitter and Receiver System	please quote as per specification.
23	Tender Document Page #50	Item S. No.19	Digital Signal Processor (DSP) (FOR High End High Spec):	DSP - Tender specs	Clients wants to use 3rd party microphone system during Video conference call(s). But AEC feature is missing for the asked tender specs of Digital Signal Processor	AEC already mentioned in the specifications.
24	Tender Document Page #51	Item S. No.20	Analog Mixer (FOR Normal End Spec Class)	As per the shared tender connectivity diagrams, only 4 nos. of Mic / Line inputs required along with two outputs	Clarification required on the acceptance of offered make /model as per required input / output connectivity as shown in the tender drawings. Or clarification required on the requirement of require input / outputs asked in tender specifications for Item #20 - analog mixer, in case tender specs overwrites tender drawings.	Please quote as per technical specification.
25	Tender Document Page #51	Item S. No.21	Amplifier	Approved Make: Bose, Powersoft, Biamp , D&B	Kindly approved "JBL(Crown)" make as accepted make for this tender opportunity	Crown Make is already approved.
26	Tender Document Page #51	Item S. No.21	Amplifier	j. Inbuilt programmable and monitorable DSP with Loudspeaker Equalization etc complete with standard accessories.	Clarification required on the asked technical specs for Amplifier with Inbuilt programmable and monitorable DSP. Whereas DSP / Mixer is included in the bill of material as a separate line items. Therefore no need to go inbuilt DSP for amplifier. Kindly remove the same	Please quote as per technical specification.
27	Tender Document Page #51	Item S. No.23	Wall Mounted Speakers for Classroom	4 nos. of FOH loudspeaker system for each class room	Kindly provide the tentative coverage with 4 nos. of FOH loudspeakers as requested requested tender technical specifications	Please quote as per tender specification. Coverage mentioned in the specification.
28	Tender Document Page #51	Item S. No.23	Wall Mounted Speakers for Classroom	The shared equipment placement plan for 40 PAX class room (refer page #37) is not in with sync with the requested bill of material. Tender drawing shows only two FOH speakers, whereas tender bill of material is for 4 nos. of FOH speakers.	clarifications required on the final required quantities of FOH loudspeakers for 40 Pax class room	Please quote as per schedule of quantity.
29	Tender Document Page #52	Item S. No.24	Speaker in the AV room	The SLD - Signal Line Diagram (refer Page #26) shared in the tender document is not clear. It is showing monitor speaker (Speaker 05) for AV room will connect on 3rd output of DUAL CHANNEL AMPLIFIER. Which is not correct.	Clarifications required on the connectivity of Monitor Loudspeaker required for AV Room as requested in the tender document * Our suggestion please revised the tender specs of Loudspeaker (AV Room) with Powered monitor speaker to avoid any additional cost of require amplifier output channel for connectivity of one single loudspeaker	The Monitor speaker is to be connected to any of Dual channel of amplifier for monitor speaker. No change - tender conditions prevail.
30	Tender Document Page #52	Item S. No.24	Speaker in the AV room	The AV Equipment placement / layout plan (refer page #36 & 37) shared in the tender document shows one speaker need to be consider for AV room; whereas the requested bill of material only asked one speaker for 90 pax (high end) class room.	Clarifications required for considering additional speaker for AV room as specified in the tender drawings for 40 PAX / 90 PAX class room.	No required. No change - tender conditions prevail.
31	Tender Document Page #52	Item S. No.25	Audio Conference Unit (FOR High-end High Specs Class)	Approved Make: Beyerdynamic, Bosch, Brahler, Televic, DIS.	Kindly approved AKG as accepted make for this tender opportunity	Already approved in the make .
32	Tender Document Page #52	Item S. No.26	Delegate Unit/Microphone for Student Table(FOR Highend High Specs Class)	Approved Make: Beyerdynamic, Bosch, Brahler, Televic, DIS.	Kindly approved AKG as accepted make for this tender opportunity	Already approved in the make .
33	Tender Document Page #52	Item S. No.27	Chairman Unit/Microphone for Student Table(FOR Highend High Specs Class)	Approved Make: Beyerdynamic, Bosch, Brahler, Televic, DIS.	Kindly approved AKG as accepted make for this tender opportunity	Already approved in the make .
34	Tender Document Page #28	Item S. No.18	Manual Rack mount Mixer		Request you to clarify the specification for the item.	Pls refer item no 20 Analog Mixer in specification.
35	Tender Document Page #34	Item S. No.23	8 Port High Volatage Relay Controller for Controls of Projector Screen located in the AV Room		Request you to clarify the specification for the item.	To be provided as per requirement of integration systems. Should be compatible Control systems and performance/operation requirement.

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36	Tender Document Page #34	Item S. No.24	AV integrator Module and 8 Channel Relay module , both for lighting on and off		Request you to clarify the specification for the item.	To be provided as per requirement of integration systems. Should be compatible Control systems and performance/operation requirement.
37	Tender Document Page #50	Item S. No.17 Technical specifications (bb)	Gooseneck Microphone	Make: Beyerdynamic, Shure, Sennheiser.	Kindly approved AKG as accepted make for this tender opportunity	Same Query Clarified above
38	Tender Document Page #50	Item S. No. 17 Technical specifications (bb)	Gooseneck Microphone	With table top stand	Need clarification on the uses of additional table top stand, since tender document also asked shock mount accesbly for Gooseneck Microphone	Same Query Clarified above
39	Tender Document Page #50	Item S. No. 18	UHF Headworn Microphone with Transmitter and Receiver	Make: Beyerdynamic, Shure, Sennheiser.	Kindly approved AKG as accepted make for this tender opportunity	Same Query Clarified above
40	Tender Document Page #50	Item S. No. 18	UHF Headworn Microphone with Transmitter and Receiver	Quantities Required one number for each class room(s). Total class rooms 14 +1 = 15 nos.	Need Clarification on the distance from one class room to another class room. This is require for RF Interference, while using Wireless Microphones	Same Query Clarified above
41	Tender Document Page #50	Item S. No. 18	UHF Headworn Microphone with Transmitter and Receiver	Quantities Required one number for each class room(s). Total class rooms 14 +1 = 15 nos.	Also confirmation required for Minimum number of uses for requested UHF Headworn Microphone with Transmitter and Receiver System	Same Query Clarified above
42	Tender Document Page #50	Item S. No. 19	Digital Signal Processor (DSP) (FOR High End High Spec):	DSP - Tender specs	Clients wants to use 3rd party microphone system during Video conference call(s). But AEC feature is missing for the asked tender specs of Digital Signal Processor	Same Query Clarified above
43	Tender Document Page #51	Item S. No.20	Analog Mixer (FOR Normal End Spec Class)	As per the shared tender connectivity diagrams, only 4 nos. of Mic / Line inputs required along with two outputs	Clarification required on the acceptance of offered make /model as per required input / output connectivity as shown in the tender drawings. Or clarification required on the requirement of require Input / outputs asked in tender specifications for Item #20 - analog mixer, in case tender specs overwrites tender drawings.	Same Query Clarified above
44	Tender Document Page #51	Item S. No.21	Amplifier	Approved Make: Bose, Powersoft, Biamp , D&B	Kindly approved "JBL(Crown)" make as accepted make for this tender opportunity	Same Query Clarified above
45	Tender Document Page #51	Item S. No.21	Amplifier	j. Inbuilt programmable and monitorable DSP with Loudspeaker Equalization etc complete with standard accessories.	Clarification required on the asked technical specs for Amplifier with Inbuilt programmable and monitorable DSP. Whereas DSP / Mixer is included in the bill of material as a separate line items. Therefore no need to go inbuilt DSP for amplifier. Kindly remove the same	Same Query Clarified above
46	Tender Document Page #51	Item S. No.23	Wall Mounted Speakers for Classroom	4 nos. of FOH loudspeaker system for each class room	Kindly provide the tentative coverage with 4 nos. of FOH loudspeakers as requested requested tender technical specifications	Same Query Clarified above
47		Item S. No.23	Wall Mounted Speakers for Classroom	The shared equipment placement plan for 40 PAX class room (refer page #37) is not in with sync with the requested bill of material. Tender drawing shows only two FOH speakers, whereas tender bill of material is for 4 nos. of FOH speakers.	clarifications required on the final required quantities of FOH loudspeakers for 40 Pax class room	Same Query Clarified above
48	Tender Document Page #52	Item S. No.24	Speaker in the AV room	The SLD - Signal Line Diagram (refer Page #26) shared in the tender document is not clear. It is showing monitor speaker (Speaker 05) for AV room will connect on 3rd output of DUAL CHANNEL AMPLIFIER. Which is not correct.	Clarifications required on the connectivity of Monitor Loudspeaker required for AV Room as requested in the tender document * Our suggestion please revised the tender specs of Loudspeaker (AV Room) with Powered monitor speaker to avoid any additional cost of require amplifier output channel for connectivity of one single loudspeaker	Same Query Clarified above
49		Item S. No.24	Speaker in the AV room	The AV Equipment placement / layout plan (refer page #36 & 37) shared in the tender document shows one speaker need to be consider for AV room; whereas the requested bill of material only asked one speaker for 90 pax (high end) class room.	Clarifications required for considering additional speaker for AV room as specified in the tender drawings for 40 PAX / 90 PAX class room.	Same Query Clarified above
50	Tender Document Page #52	Item S. No.25	Audio Conference Unit (FOR Highend High Specs Class)	Approved Make: Beyerdynamic, Bosch, Brahler, Televic, DIS.	Kindly approved AKG as accepted make for this tender opportunity	Same Query Clarified above
51	Tender Document Page #52	Item S. No.26	Delegate Unit/Microphone for Student Table(FOR Highend High Specs Class)	Approved Make: Beyerdynamic, Bosch, Brahler, Televic, DIS.	Kindly approved AKG as accepted make for this tender opportunity	Same Query Clarified above
52	Tender Document Page #52	Item S. No.27	Chairman Unit/Microphone for Student Table(FOR Highend High Specs Class)	Approved Make: Beyerdynamic, Bosch, Brahler, Televic, DIS.	Kindly approved AKG as accepted make for this tender opportunity	Same Query Clarified above

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53			Tender Specifications		Clarification require for acceptance of deviation (in percentage) for each line item specified in the tender document	No Deviation acceptable.
54	Tender Document Page #44	Item S. No.3 Technical specifications (f)	H.264Encoder, Recorder & Streamer: (FOR High End High Spec Class):	Make: Crestron, AMX, Kramer.	Should have Composite video input & 3G-SDI Input for the camera.The N3132 Encoder support digital and analog component input)	Quote as per technical specification.
55		Item S. No.3 Technical specifications (o)	Should support FTP & SFTP (File Transfer Protocol) & RTP , RTSP , SDP (Streaming Protocol)	Make: Crestron, AMX, Kramer.	N3132 Encoder support RTP , RTSP , SDP (Streaming Protocol)	Quote as per technical specification.
56	Tender Document Page #45	Item S. No.3 Technical specifications (p)	Should support Audio compression standard of MPEG4, AAC-LC.	Make: Crestron, AMX, Kramer.	Need to remove	Quote as per technical specification.
57		Item S. No.3 Technical specifications (r)	Should have inbuilt Storage of 16 GB and must supports SD & SDHC , USB Hard Drives and supports file transfer to network media server	Make: Crestron, AMX, Kramer.	External USB Hard disk for storage and NVR Recorder will record upto 40-hrs of 1080p video.	Quote as per technical specification.
58		Item S. No.6 Technical specifications (f)	Should have built-in White Board feature.	Make: Crestron, AMX, Kramer.	No white board feature	Quote as per technical specification.
59	Tender Document Page #46	Item S. No.6 Technical specifications (h)	Should have a HDMI Input to incorporate other hardware source with the Wifi Presentation.	Make: Crestron, AMX, Kramer.	No HDMI Input, Presentation thorough wired and wireless network.	Quote as per technical specification.
60		Item S. No.6 Technical specifications (j)	Should have in-built memory of 32GB (SSD).	Make: Crestron, AMX, Kramer.	RAM: 2 GB Flash: 16 GB, (12 GB user accessible)	Min 32GB or higher is acceptable. SSD is deleted.
61		Item S. No.28 Technical specifications (e)	9.7" Touch Panel with LED-backlit Multi-Touch display with IPS technology	Touch Panel - wireless connectivity	9" Wireless touch panel	Quote as per technical specification.
62	Tender Document Page #53	Item S. No.28 Technical specifications (f)	camera , Bluetooth , Light Sensor , GPS and compass	Touch Panel - wireless connectivity	No Camera for wireless touch panel	Quote as per technical specification.
63		Item S. No.28 Technical specifications (g)	2048 x 1536 pixel resolution at 264 ppi	Touch Panel - wireless connectivity	800 x 480 pixels (HV) @ 60 Hz refresh rate, Aspect ratio: 16 x 9	Quote as per technical specification.
64	Tender Document Page #54	Item S. No.34 Technical specifications (i)	Should have support for Deep Color, x.v.Color™, Lip Sync, HDMI Uncompressed Audio Channels, Dolby TrueHD, DTS-HD, CEC.	Make: Crestron, AMX, Kramer.	Does not support : x.v.Color™, Lip Sync, CEC	" x.v.Color™, Lip Sync, CEC" is deleted . To be read as " Should have support for Deep Color,HDMI Uncompressed Audio Channels, Dolby TrueHD, DTS-HD."
65	Tender Document Page #55	Item S. No.35 Technical specifications (l)	Should have support for Deep Color, x.v.Color™, Lip Sync, HDMI Uncompressed	Make: Crestron, AMX, Kramer.	Does Not support : x.v.Color™, Lip Sync, CEC	" x.v.Color™, Lip Sync, CEC" is deleted . To be read as " Should have support for Deep Color,HDMI Uncompressed Audio Channels, Dolby TrueHD, DTS-HD."
66			Video Conferencing	Video Annotation	Searched on net and it is available with Sony VC system only , other two listed OEMS Polycom and Lifesize does not have this.	The VC system should support using external Touch/pen tablet for annotation on remote content via VC system. This would be required by teacher/ student to interact with remote presentation/data. External annotation processor if required to achieve this functionality is acceptable. No change in specs.
67			Video Conferencing	High Definition Multicast streaming	Separate streaming device is listed , this feature is available in Sony endpoint , Not in other two OEMS	High Definition Multicast Streaming is Optional .
68			Wireless Collaboration Device		Specific to Kramer , other OEMS also manufacturer but point to point compliance is not possible, if it can be generalised based on requirement then other can comply	Quote as per technical specification.

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69			Projector	Input Ports	Ports 1 x Mini DIN 4-Pin and 1 x S-Video are same and due to limited connectivity options are not used in the connection options. Hence the same may be omitted from the tender specifications	"1 x Mini DIN 4-Pin and 1 x S-Video " are optional .
70			Projector	HD BaseT digital interface Compliant	The receiver can be provided externally for HD BaseT Connectivity. Please specify as built-in / external	Inbuilt is required . Quote as per technical specification.
71			Projector	The projector should not be of portable series, Only installation grade projector should be quoted	This line to be deleted as this is very general term, feature may be specified instead of installation or portable series	Quote as per technical specification.
72			LED TV	Contrast Ratio 5000:1	Please specify separate values for IPS and VA Panels as contrast ratio for both is different. Kindly Mention, for IPS panel , Contrast ratio is min 1200:1 and for VA Panel, contrast ratio is min 3000:1	Contrast ratio min 1200:1 (IPS Panel) and 3000:1 (VA Panel) is acceptable
73			LED TV	Inputs RGB (Analog D-SUB, DVI-D), Video (HDMI1,Component(CVBS Common), Audio (Stereo mini Jack)	mention DVI-D / HDMI since presently, HDMI inputs ,Are more prevalent and acceptable video input.	To be read as " Inputs D-SUB/ DVI-D, HDMI, Component, Audio (Stereo mini Jack) "
74			90PAX HIGH END HIGH SPEC CLASSROOM		● Local monitor has been asked for the PC, but connectivity not shown in the schematic.	Monitor will be conncted to PC via required cable. No change required
75			90PAX HIGH END HIGH SPEC CLASSROOM		● Client to provide 2 HDMI out PC if monitor needs to be connected.	Bidder to provide the same as per scope of work.
76			90PAX HIGH END HIGH SPEC CLASSROOM		● Solution already has a 40" LED for teleprompter hence PC screen might not be required.	Quote as per technical specification.
77			90PAX HIGH END HIGH SPEC CLASSROOM		● Podium to have both control touch panel and 12 button panel?..its advisable to have one at end of the room if a assistant is available for lecture.	Touch panel is wireless and button panel is wired at Podium. No change - tender conditions prevail.
78			90PAX HIGH END HIGH SPEC CLASSROOM		● Schematic shows laptop and visualizer connected to passive plate. Hence point 5e cannot be achieved as selection can be between the PC or the face plate only. It can only be achieved only if visualizer is connected permanently to podium scalar.	Acceptable as per Integration requirement,
80			90PAX HIGH END HIGH SPEC CLASSROOM		● Point 5g - there should be one button for volume control for all audio input , rather than having one each for goose neck mic or any other audio source.	These are minimum requirement, Programing as per site requirement.
81			90PAX HIGH END HIGH SPEC CLASSROOM		● Point 10 should be CWPS- Collaborative wireless presentation system and not Wire system.	To be read as "Wireles"
82			90PAX HIGH END HIGH SPEC CLASSROOM		● None of the VC specified in the tender have composite input for camera.	Suitable Interface to be used for Integration as required.
83			90PAX HIGH END HIGH SPEC CLASSROOM		● The AV recording and streaming shown in schematic has only one input.Now if Vc does not has camera input hence no PIP can be formed.	The Composite video switcher to be provided with two outputs , one for VC and other for AV recorder. Extra components required for integration to be included in quote.
84			90PAX HIGH END HIGH SPEC CLASSROOM		● Point 19 can be archived by adding HDMI to USB converter, so as to use any of the 3 cameras as	To be proided as per specification.
85			90PAX HIGH END HIGH SPEC CLASSROOM		USB camera for "webex" type software VC. And same has to be done for audio Le a DSP with USB out should be used.	Quote as per technical specification.
86			90PAX HIGH END HIGH SPEC CLASSROOM		● Its suggested to have 1 matrix mixer with inbuilt streaming option rather than having 2 scalar and one streaming box which would add onto delay in delivery.	Quote as per technical specification.
87			90PAX HIGH END HIGH SPEC CLASSROOM		● Request you to add Lumens as a brand for streaming as well as its already added for cameras and visualizer.	Quote as per technical specification.
88			90PAX HIGH END HIGH SPEC CLASSROOM		The chairman delegate unit speakers should be used to re enforce the local audio and wall speakers should be used for VC.	Quote as per technical specification.
89			90/40 PAX NORMAL SPEC CLASSROOM		● Local monitor has been asked for the PC, but connectivity not shown in the schematic.	clarfied above
90			90/40 PAX NORMAL SPEC CLASSROOM		● Client to provide 2 HDMI out PC if monitor needs to be connected.	clarfied above
91			90/40 PAX NORMAL SPEC CLASSROOM		● Solution already has a 40" LED for teleprompter hence PC screen might not be required.	clarfied above
92			90/40 PAX NORMAL SPEC CLASSROOM		● Podium to have both control touch panel and 12 button panel?..its advisable to have one at end of the room if a assistant is available for lecture.	clarfied above
93			90/40 PAX NORMAL SPEC CLASSROOM		● Schematic shows laptop and visualizer connected to passive plate. Hence point 5e cannot be achieved as selection can be between the PC or the face plate only.	clarfied above
94			90/40 PAX NORMAL SPEC CLASSROOM		● It can only be achieved only if visualizer is connected permanently to podium scalar.	clarfied above
95			90/40 PAX NORMAL SPEC CLASSROOM		● Point 10 should be CWPS- Collaborative wireless presentation system and not Wire system.	clarfied above
96			90/40 PAX NORMAL SPEC CLASSROOM		● It is advisable to have a small DSP instead of manual mixer, as its easy to disturb its configuration easily.	Quote as per technical specification.
97			90/40 PAX NORMAL SPEC CLASSROOM		● The scalar asked for , should be a matrix mixer to show 2 different output on the 2 projectors.	Quote as per technical specification.

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98			90/40 PAX NORMAL SPEC CLASSROOM		<ul style="list-style-type: none"> It is suggested to have wireless hand held microphones for 90 students, as some student might speak softly than others, hence hearing them might become a challenge for the lecturer. 	Quote as per technical specification.
99					Extron make may be considered for items: Switcher/Scaler, H.264 Encoder, Recorder & Streamer; Controller in AV Room/ Podium ; 12 Button Keypad for Control ; Wireless Collaboration Device; Composite Video AV Switcher ; Digital Signal processor(DSP for High End Specs), Amplifier, 1x2 HDMI Distribution Amplifier; Wall Mounted Speaker; Speaker in AV Room; Twisted pair with HDBaseT Compatibility to HDMI Receiver; HDMI cable, VGA cable with Audio; CAT6A/7 STP cable,	Already approved in the make.
100					1. Approved makes are not price wise equivalent as Kramer is much cheaper among the rest two mentioned makes & hence not providing level competitive platform for bidder to quote Crestron or AMX. Price & technical wise Crestron, AMX & Extron are more equivalent makes & technically superior overall.	Quote as per technical specification.
101					2. Not Equivalent makes mentioned in "Wireless Collaboration Device / Presentation System" many renowned makes are left out. Request to consider for Extron & Barco as well.	Extron is already there. Barco is also approved.
102				4. "Switcher/ Scaler at Podium" Specifications: Flexible control options viz Front Panel, IR, remote with OSD, Ethernet with built-in webpages & RS-232.	Query/Change requested: IR Control & Remote may be removed as not all makes come with the IR control & Remote. However already for control Button panel/touch panel provided in tender and also front panel/ RS 232 is sufficient control options. Hence "IR, Remote" is requested to be deleted.	Already Mentioned in specifications.
103				5. "Switcher/ Scaler at Podium" Specifications: Should have de-interlacing and full-up and full-down scaling of all video signals upto 1920 X 1080Dpi	Query/Change requested: The scaling resolution support should be atleast 1920 x1200 (WUXGA) since projector specs asked native resolution 1920 x1200. Request to consider & revise 1920x1080 dpi to 1920 x1200.	Already Mentioned in specifications.
104				6. "Switcher/Scaler at AV Room (FOR High End High Spec Class)" Specifications: Should have de-interlacing and full-up and full-down scaling of all video signals upto 1920 X 1080Dpi	Query/Change requested: The scaling resolution support should be atleast 1920 x1200 (WUXGA) since projector specs asked native resolution 1920 x1200. Request to consider & revise 1920x1080 dpi to 1920 x1200	Already Mentioned in specifications.
105				7. "Switcher/Scaler at AV Room (FOR High End High Spec Class)" Specifications: Flexible control options viz Front Panel, IR, remote with OSD, Ethernet with built-in webpages & RS-232.	Query/Change requested: IR control & Remote may be removed as not all makes come with the IR control & Remote. However already for control Button panel/touch panel provided in tender and also front panel/ RS 232 is sufficient control options. Hence "IR, Remote" is requested to be deleted.	Already Mentioned in specifications.
106				8. "Switcher/Scaler at AV Room (FOR High End High Spec Class)" Specifications: Should have minimum 3 HDMI inputs, 3 Twisted pair input with HD baseT compatibility, 1 VGA & 1 Audio inputs.	(a) No input feed coming over twisted pair then why Twisted pair inputs 3 nos considered? Not all makes will come with similar input configurations. Requested to have only 2 or more twisted pair inputs and more HDMI inputs can be considered which may be more required.	Quote as per technical specification.
107				8. "Switcher/Scaler at AV Room (FOR High End High Spec Class)" Specifications: Should have minimum 3 HDMI inputs, 3 Twisted pair input with HD baseT compatibility, 1 VGA & 1 Audio inputs.	(a) Why HDBase T technology required in input specifications. No source equipment give HDBaseT technology output. Requested to remove the HD baseT as all long distance transmission over twisted pair will any ways be done through the standard technology as offered over twisted pair by respective OEMs	Quote as per technical specification.

S.No	Page No	Clause,	Description	As per Bid Document	Pre-bid Queries from Bidder	Remarks
108				Switcher/Scaler at AV Room (FOR High End High Spec Class)" Specifications: Should have 3 Output on matrix format with 2 HDMI output and 1 Twisted pair output with HDbaseT compatibility	Query/Change requested: There are visible challenges in the solution. There are various output devices like 2x Projectors, 1x Video Conf (presentation Sharing), 1 x (2input for PIP of camera & presentation)H.264 Encoder & recorder i.e total 5 nos output required from Scaler. Only three outputs are not sufficient. As per SLD the outputs to H.264 encoder is taken from Video Conf, this is not suggested as this arrangement will lead to delay and also when VC is not happening for local classroom recording also VC unit will need to be kept ON. Camera Inputs should also come to Switcher/Scaler, so that camera can be switched & flexibly routed to VC or H.264 Streaming . When all feeds are mostly HD camera output should also be HD output	Quote as per technical specification.
109				H.264 Encoder, Recorder & streamer" Specifications: Should have Composite video input & 3G-SDI Input for the camera	Query/Change requested: Requested to remove 3G SDI inputs since PTZ the camera as per tender specifications does not have 3G- SDI output & there are no other source in 3G SDI. There should be option of composite or component inputs as different OEMs may have different analog input format. Moreover Composite is a very low resolution output and hence for such HD environment where all equipments are mostly HD, it should be preferred to have camera output in HD (HDMI/ Component) & same should be in the recorder input.	Already Mentioned in specifications.
110				11. "H.264 Encoder, Recorder & streamer" Specifications: Should have inbuilt Storage of 16 GB and must supports SD & SDHC , USB Hard Drives and supports file transfer to network media server	Query/Change requested: Storage capacity seems too less for 30hrs back up at high resolution should be atleast 50GB with internal or external storage.	Quote as per technical specification.
111				12 Button Panel-Keypad for Control" specifications: Should have at least 12 button.	Query/Change requested: Requested to consider in specification "10 or more buttons" to provide equal opportunity to all equivalent makes. Also Since 12 buttons are actually not required to control the desired tender functionality as In such control panels one button can be assigned with multiple associated functionality. Like projector On/OFF & Screen Down/UP can be done through just two buttons instead of multiple 4 -buttons making the use simpler for the lecturer/user. Also suggested to consider for volume control knob, which is a convenient control interface which should be taken.	Quote as per technical specification.
112				13. "12 Button Panel-Keypad for Control" specifications: Should be USB Programmable.	Query/Change requested: Requested to change it to USB/Ethernet programmable as different OEM have different programmable process	Already Mentioned in specifications.
113				14.Controller in AV Room/Podium: SITC of controller with Minimum 4 RS232 , 2 Nos IR and Cat 6 Output to control all the devices on the room	Query/Change requested: Requested to change RS 232 ports to 3 or more. Since 4th RS 232 port as in specifications is used as per SLD for Screen Controller, however most of the makes provide Relay control ports in the AV controller itself for such control & no need for separate relay controller to be controlled by RS 232 port	Quote as per technical specification.
114				14.Controller in AV Room/Podium: SITC of controller with Minimum 4 RS232 , 2 Nos IR and Cat 6 Output to control all the devices on the room	Query/Change requested: Kramer is not equivalent make for control products in comparison to Crestron & AMX neither commercially nor technically. Equivalent makes are Crestron / AMX/ Extron	Quote as per technical specification.
115				15. Wireless Collaboration Device / Presentation System, specifications: Should be able to share uninterrupted HD video of 1080p @ 60Hz	Query/Change requested: HD video of 1080p/60Hz is brand specific and met by only one make i.e Kramer, requested to revise to 1080p/30 Hz which is sufficient for full motion video as most full motion HD video source are 1080p/30 Hz.	Quote as per technical specification.

S.No	Page No	Clause,	Description	As per Bid Document	Pre-bid Queries from Bidder	Remarks
116				16. Wireless Collaboration Device / Presentation System, specifications: Should have in-built memory of 32GB (SSD).	Query/Change requested: This is make specific i.e Kramer and not met by most other OEMs and also for such wireless presentation is not a desired specification. Request to delete this specification to provide equal opportunity to all	Quote as per technical specification.
117				17. Wireless Collaboration Device / Presentation System, specifications Should have a HDMI Input to incorporate other hardware source with the Wifi presentation	Query/Change requested: This is make specific i.e Kramer. Other makes may offer such input on USB hence request to change it to " Should have a HDMI/ USB input to incorporate other hardware source with Wifi Presentation" for providing equal opportunity to all makes.	Quote as per technical specification.
118				18. Digital Signal Processor (DSP) (FOR High End High Spec):	Query/Change requested: This product mandatorily require AEC (Acoustic Echo Cancellation) feature for Video Conferencing. There are DSP without AEC & there are DSP models with AEC inputs. Hence this AEC specification is required to be mentioned. Suggested to add 8 or more inputs with AEC	Already Mentioned in specifications.
119				19. Camera For Classroom:	Why SD camera consider for classroom where as We are talking about digital platform, SD is outdated so our suggestion is to consider HD camera which give digital output.	Quote as per technical specification.
120				20. Video Conferencing Unit:	A. Please remove Inbuilt HD recording on USB as we are using Encoder, Recoder & Streamer.	Already Mentioned in specifications.
121				20. Video Conferencing Unit:	B. Please remove Supports 100 Camera Presets as Auxiliary camera supports 128 presets.	No such specifications mentioned. Pls recheck
122				21. Joystick Controller:	Please also add Lumens as Lumnes is already on of the approved make in Camera.	Already Mentioned in specifications.
123				22. Composite Video Switcher at AV Room :(FOR High End High Spec	Not Required if you consider HD cameras, In that Scenario 4X1 HDMI switcher is required.	Quote as per technical specification.
124					Provide the CAD drawings for all the class rooms with Plan, elevation and RCP.	Classroom drawing already provided with bid document. CAD drawings shall be provided to the successful bidder.
125					• You have specified the projection screens from local brands like Shresta, Suvera and Liberty. These are not comparable & well renowned brands. Specifications would also vary to large extent. Please review, if you wish to change.	Quote as per technical specification.
126					• Screen size of 100" and 94" diagonal, looking at the dimensions of the Class rooms are very small. The rear most student would not be in a position to view the contents.	Quote as per technical specification.
127					• The confidence monitor of size 40" would also be very small size for the trainer to view the contents.	Quote as per technical specification.
128					• Clarify who will be supplying and installing the smart board/white board as shown in the drawing as the same is not defined as line item in the AV BOQ?	No required in this tender.
129					• Please specify the brand and model of the Wooden podium as its difficult to meet the requirements otherwise?	Custom fabricated as per site is required.
130					• In the case of Projectors, the make defined are Christy, Barco ,Sony ,Panasonic Digital Projection System and technology asked is LCD/DLP. All these projectors are lamp based projectors and incur heavy recurring cost in terms of replacement of lamps. While, the latest technology now is LASER and projectors are lamp free. They definitely have technological advantages and almost zero recurring cost. Almost every brand including Christie, Panasonic and Sony has laser projectors as well including Casio. Please review, if you wish to buy latest technology.	Quote as per technical specification.
131					• Please elaborate on the required floating acoustic ceiling tiles as its very subjective and bidders can have different views. Moreover, it's part of the interior works and does not fall in the SOW of AVSI Bidder. Either you should remove it from AVSI bidder's scope or at least define the quantities/type of acoustics tiles very clearly to bring every bidder on same platform.	As discussed in the PRE-BID, the performance of the classroom has been specified, the plan for possible locations of FLOATING ACCOUSTIC PANLES is provided in the RFP. Bidder must work with ANY Accoustic consultant to provide accoustical solution if required in any classroom. The audio must be considered as a complete package including accoustical requirements (if any)
132					• Hope all the conduits for AV must be done by IIM and only cables be laid by AVSI bidder.	Yes.

S.No	Page No	Clause,	Description	As per Bid Document	Pre-bid Queries from Bidder	Remarks
133					As we are talking for audio (speaker and Microphone) cables, they should have ATC (Annealed tinned copper) as the conductor as a mandate. Bare Copper is used for high voltage applications and not for sound. (This is not mentioned anywhere).	ATC is acceptable.
134				For speaker cable – 1.5 sq mm x 2 core	a. Conductor shall be 48 x 0.2 mm b. Instead of Impedance, DCR @ 20 degree C is measured for audio cables	48/.2 mm , 13 Ohm/Km is acceptable
135				MIC Cable – 20 AWG	a. Again ATC conductor and ATC shielding helps in safeguarding copper for a long life for low voltage applications like sound. b. For a longer life and better shielding, cable shall have a water proof polymer filler also c. DCR at 20 degree C for MIC cable – i. For conductor: 40.10 ohms / km ii. For Shield – 22.90 ohms / km	ATC is acceptable.
136				CAT 6A / 7 cable	Please add our name as Krystals for supply of these cables as well.	Quote as per technical specification.
137				Item No: 3: H.264 Encoder, Recorder & Streamer: (FOR High End High Spec Class):	We would like to request you to kindly add Lumens also as an approved make in this category. Also, in the specifications, it is mentioned that the system should have one HDMI port and second one as C-video or 3G-SDI (Optional). We would like to request you to kindly make the ports as 2 x HDMI or 1 x HDMI and 1 x 3G-SDI / 1 x DVI as almost all the recording and streaming devices comes with Full HD Inputs. Almost all the PTZ Cameras are now coming with HDMI / DVI / 3G-SDI outputs supporting full HD (1080p) outputs and SD Cameras are now getting discontinued from the international market.	Quote as per technical specification.
138				Item No: 13: Camera for Classroom (FOR High End High Spec Class):	Kindly upgrade the specifications to HD or Full HD Resolution as all the new PTZ Cameras supports 1080p / 60 frames per second resolution. As per the tender specifications, C Video resolution is mentioned which is a standard definition resolution which is quite inferior to HD or Full HD . Also, all the latest PTZ Cameras comes with HDMI/DVI/3G-SDI Outputs. Hence, we request you to kindly amend the following specifications in the tender for this category to: Sensor : 1/4-type Exview HAD CCD or better to 1 /2.8" CMOS or better. Output format : VBS, Y/C to HDMI / DVI / 3G-SDI Outputs up to 768 x 494 to 1920 x 1080 Video output : LAN, VBS, Y/C to HDMI / DVI / 3G-SDI	Quote as per technical specification.

S.No	Page No	Clause,	Description	As per Bid Document	Pre-bid Queries from Bidder	Remarks
139				Item No-13 (PTZ Camera), Page No:48 :-	<p>We would request you to upgrade the specifications of PTZ Cameras to High Definition or Full HD 1080p resolution.</p> <p>kindly amend the below highlighted points to :-</p> <p>Ⓜ (c) ¼ type Exview Had CCD : These are proprietary terms of Sony Cameras. We request you to make it generic by changing it to " 1 / 2.8 type CCD/ CMOS .</p> <p>Ⓜ (i) Again the figures mentioned here i.e -3db to 28db are of Sony Cameras: Kindly remove these figures and keep only Gain : Auto/Manual</p> <p>Ⓜ (m) Video Outputs : LAN, VBS, Y/C- Kindly change it High Definition Sources which are :- HDMI, DVI, 3G-SDI</p> <p>Ⓜ (i) Outputs Upto 768x 494- Kindly upgrade it to high resolution output which is : 1920x1080</p> <p>k) Output Formats: To be removed as Video Output & Output Formats means the same.</p>	Quote as per technical specification.
140				Item No-3 (Encoder, Recorder and Streamer), Page No:44:	<p>We would request you to kindly add Lumens as an approved brand under this category as Lumens also has a recording & streaming hardware which is installed in many of the prestigious accounts like IITs and Government Training Institutions for your kind reference. Also, we would request you to kindly amend the below point under Recorder , Encoder & Streamer to :-</p> <p>Ⓜ (f) Kindly replace Composite Video Input to HDMI/ DVI as Composite Video supports only Standard Definition Resolution.</p>	Quote as per technical specification.
141				Page No: 54 (Gooseneck Visualizer), Item No- 31	<p>We request you to kindly remove Gaoke brand under Visualizers as this is an unknown brand whereas the other brands mentioned like Elmo, Wolfvision and Lumens are world renowned brands with a strong service and installation base across India for your kind reference.</p>	Gaoke brand is deleted.
142				Projectors	<p>b. SITC of 3 LCD DLP Projector having 4000 lumens brightness or better, (WUXGA) 1920x1200 native resolution or higher, Inputs ; Min 1 X HD BaseT , 1 x RGB D-Sub 15pin, 1 x Mini DIN 4-Pin, 1 x Stereo Mini Jack , 2 x HDMI, 1 x S-Video, Outputs 1 x RGB D-Sub 15pin, 1 x Stereo Mini Jack, Control 1xRS-232C, 1xLAN RJ-45 etc. complete with installation as per site requirement.</p> <p>Ⓜ Ports 1 x Mini DIN 4-Pin and 1 x S-Video are same and due to limited connectivity options are not used in the connection options. Hence the same may be omitted from the tender specifications.</p>	clarified above
143				Projectors	<p>e. HD BaseT digital interface Compliant. The receiver can be provided externally for HD BaseT Connectivity. Please specify as built-in / external</p>	clarified above

S.No	Page No	Clause,	Description	As per Bid Document	Pre-bid Queries from Bidder	Remarks
144				Projectors	The projector should not be of portable series, only installation grade projector should be quoted. Kindly clarify since the nomenclature for different companies can vary for the same set of features.	clarified above
145				29. LED Monitor to act as Teleprompter in Classroom (FOR 90 PAX Spec Class)	Contrast Ratio(Typ.) 5000:1 – Please specify separate values for IPS and VA Panels as contrast ratio for both is different. Kindly Mention, for IPS panel , Contrast ratio is min 1200:1 and for VA Panel, contrast ratio is min 3000:1 Inputs RGB (Analog D-SUB, DVI-D), Video (HDMI1,Component(CVBS Common), Audio (Stereo mini Jack) – Please mention DVI-D / HDMI since presently, HDMI inputs are more prevalent and acceptable video input.	clarified above
146		13.0 Specification of Each Component		Page 46 ____ (8) LED Monitor on Podium	Include wacom as approved make for 21"or more LCD Interactive Pen tablet Monitor	WACOM make is also approved.
147			LCD Screen for Podium	21" LCD Monitor	21"or more LCD Interactive Pen tablet Monitor	Quote as per technical specification.
148			Resolution		1920 X 1080	Quote as per technical specification.
149			Luminance, White	250 cd/m2	210 cd/m2	Quote as per technical specification.
150			Contrast Ratio	3000:01:00	900: 1(typ.)	Quote as per technical specification.
151			Viewing Angle		178 (H/V)	Quote as per technical specification.
152			Lamp Life Time		30000 Hrs (Min)	Quote as per technical specification.
153			Technology		Electromagnetic Resonance	Quote as per technical specification.
154			Express Keys		Five	Quote as per technical specification.
155			Position Report Rate		133 pps	Quote as per technical specification.
156			Pressure resolution		1024 levels	Quote as per technical specification.
157			Stylus		Battery free stylus	Quote as per technical specification.
158			Touch		Multi touch	Quote as per technical specification.
159		S. No. 17	Gooseneck Microphone	Frequency Response: 50 Hz to 20 kHz	AKG - 60 to 20000 Hz	Already Mentioned in specifications.
160		S. No. 18	UHF Headworn Microphone with Transmitter and Receiver	For Microphone Max Sound Pressure level: 130 dB 1kHz at 1% T.H.D or better	AKG - 126dB	May be read as " Max Sound Pressure level: 126 dB 1kHz at 1% T.H.D or better"
161		S. No.20	Analog Mixer (FOR Normal End Spec Class)	Level, Treble, Bass, Low Cut, Limiter, Compressor, Automixing yes/no, Priority (ducking), Pan / Balance, Routing To REC etc.	JBL - Kindly remove Limiter, Compressor and Low Cut. (Not required)	Quote as per technical specification.
162		S. No. 21	Dual Channel Power Amplifier	Inbuilt programmable and monitorable DSP with Loudspeaker Equalization etc. complete with standard accessories. - Yes	JBL - Kindly remove this point since Tender Document mentions DSP and Mixer at Pre-Amp Stage.	Quote as per technical specification.
163		S. No. 23	Wall Mounted Speakers for Classroom	Frequency Response (+/- 3dB) : 80Hz to 17kHz or better	JBL: 85Hz to 17kHz or better	Frequency Response (+/- 3dB) : 85Hz to 17kHz or better
164		S. No. 23	Wall Mounted Speakers for Classroom	Nominal Dispersion : 125 H X 125 V or better	JBL: 100 H X 100 V or better	please see tender specification.
165		S. No. 23	Wall Mounted Speakers for Classroom	Power (100/70V& 8 Ohms) : 40 W or better	JBL: 30 W at 100 V and 75 Watts at 8 ohms	Quote as per technical specification.
166		S. No. 24	Speaker in the AV room	Frequency Response (+/- 3dB) : 95Hz to 17kHz or better	JBL:120Hz to 16kHz or better	Quote as per technical specification.
167		S. No. 24	Speaker in the AV room	Nominal Dispersion : 170 H x 160 V or better	JBL:120 H x 120 V or better	Nominal Dispersion : 120 H x 120 V or better is acceptable
168		S. No. 24	Speaker in the AV room	Power (100/70V& 8 Ohms) : 15W or better	JBL:10W or better at 100V/70V and 60W at 8 ohms	Quote as per technical specification.
169		S. No. 25	Audio Conference Unit (FOR Highend High Specs Class)	3-Band equalizer for tuning sound output.	Offered Make: AKG Kindly remove this Point	3-Band equalizer for tuning sound output is optional.
170	Tender Document Page #44	Item S. No.1 Technical specifications (d)	Should have minimum 4 HDMI inputs , 2 VGA & 2 Audio inputs.	Make: Crestron, AMX, Kramer, Extron.	Kindly make it #3 HDMI inputs & #2 VGA & #2 Audio inputs, as per SLD # 2HDMI & 1VGA is required	Quote as per technical specification.
171	Tender Document Page #44	Item S. No.1 Technical specifications (e)	Should have embedding and de-embedding capability for audio at both HDMI input and output respectively.	Make: Crestron, AMX, Kramer, Extron.	Kindly remove this point as per SLD there is no audio connectivity at outputs	Quote as per technical specification.

S.No	Page No	Clause,	Description	As per Bid Document	Pre-bid Queries from Bidder	Remarks
172	Tender Document Page #44	Item S. No.1 Technical specifications (f)	Should have analogue balanced audio output input and output respectively.	Make: Crestron, AMX, Kramer, Extron.	Kindly remove this point as per SLD there is no audio connectivity at outputs	Quote as per technical specification.
173	Tender Document Page #44	Item S. No.1 Technical specifications (h)	Should have embedding and de-embedding capability for audio at both HDMI Should Have RS232 data port to transmit control signal to the receiver	Make: Crestron, AMX, Kramer, Extron.	Kindly remove this point as per SLD Projector RS232 connected to Central control system	Quote as per technical specification.
174	Tender Document Page #45	Item S. No.3 Technical specifications (o)	Should support FTP & SFTP (File Transfer Protocol) & RTP , RTSP , SDP (Streaming Protocol)	Make: Crestron, AMX, Kramer.	Kindly remove FTP & SFTP (File Transfer Protocol)	Quote as per technical specification.
175	Tender Document Page #46	Item S. No.6 Technical specifications (f)	Should have built-in White Board feature.	Make: Crestron, AMX, Kramer.	Kindly remove white Board Feature. Not required. Specific to one Brand,	clarified above
176	Tender Document Page #46	Item S. No.6 Technical specifications (i)	Should have in-built memory of 32GB (SSD).	Make: Crestron, AMX, Kramer.	Kindly make it min 16 GB as 32 GB Specific to one Brand,	clarified above
177	Tender Document Page #49	Item S. No.16 Technical specifications (i)	Composite Video Switcher at AV Room (FOR High End High Spec Class)	Make: Crestron, AMX, Kramer, Extron	As discussed in Pre-Bid meeting, kindly change this line item from Analog to HD Digital Switcher with Camera Support	clarified above
178	Tender Document Page #54	Item S. No.34 Technical specifications (d)	Should support a minimum data rate of 10Gbps	Make: Crestron, AMX, Kramer.	Kindly make it minimum data rate of 6.75 Gbps and above	Quote as per technical specification.
179	Tender Document Page #55	Item S. No.34 Technical specifications (i)	Should have support for Deep Color, x.v.Color™, Lip Sync, HDMI Uncompressed Audio Channels, Dolby TrueHD, DTS, HD, CFC	Make: Crestron, AMX, Kramer.	Kindly remove this line point, it is single OEM specifications "x.v.Color™ lip sync"	clarified above
180	Tender Document Page #55	Item S. No.35 Technical specifications (d)	Twisted pair with HDBaseT Compatibility to HDMI Receiver	Make: Crestron, AMX, Kramer.	Kindly make it minimum data rate of 6.75 Gbps and above	Quote as per technical specification.
181	Tender Document Page #55	Item S. No.35 Technical specifications (i)	Should have support for Deep Color, x.v.Color™, Lip Sync, HDMI Uncompressed Audio Channels, Dolby TrueHD, DTS, HD, CFC	Make: Crestron, AMX, Kramer.	Kindly remove this line point, it is single OEM specifications "x.v.Color™ lip sync"	clarified above
182	Tender Document Page #46	Item S. No.9 Technical specifications (b)	Inputs ; Min 1 X HD BaseT , 1 x RGB D-Sub 15pin, 1 x Mini DIN 4-Pin, 1 x Stereo Mini Jack , 2 x HDMI, 1 x S-Video	Christi, Barco ,Sony ,Panasonic	Ports 1 x Mini DIN 4-Pin and 1 x S-Video are same and due to limited connectivity options are not used in the connection options. Hence the same may be omitted from the tender specifications	clarified above
183	Tender Document Page #47	Item S. No.9 Technical specifications (e)	HD BaseT digital interface Compliant.	Christi, Barco ,Sony ,Panasonic	The receiver can be provided externally for HD BaseT Connectivity. Please specify as built-in / external	clarified above
184	Tender Document Page #47	Item S. No.9 Technical specifications (f)	The projector should not be of portable series, Only installation grade projector should be quoted.	Christi, Barco ,Sony ,Panasonic	This line to be deleted as this is very general term, feature may be specified instead of installation or portable series	clarified above
185	Tender Document Page #53	Item S. No.29 Technical specifications	Contrast Ratio 5000:1	Sony, Panasonic, Samsung, LG.	Please specify separate values for IPS and VA Panels as contrast ratio for both is different. Kindly Mention, for IPS panel , Contrast ratio is min 1200:1 and for VA Panel contrast ratio is min 3000:1	clarified above
186	Tender Document Page #54	Item S. No.29 Technical specifications	Inputs RGB (Analog D-SUB, DVI-D), Video (HDMI1, Component (CVBS Common Audio (Stereo mini Jack)	Sony, Panasonic, Samsung, LG.	mention DVI-D / HDMI since presently, HDMI inputs ,Are more prevalent and acceptable video input.	clarified above
187	Tender Document Page #48	Item S. No.14 Technical specifications (g)	Supports Video Annotation on shared Data/Presentations	Sony/LifeSize/Polycom	Inbuilt feature for video annotation is available with Sony VC system only , other two listed OEMS Polycom and Lifesize does not have this. Therefore the inbuilt feature should be removed. Annotation is possible only on near video.	clarified above
188	Tender Document Page #48	Item S. No.14 Technical specifications (i)	High Definition Multicast streaming	Sony/LifeSize/Polycom	Separate streaming device is listed , this feature is available in Sony endpoint , Not in other two OEMS	clarified above
189	Tender Document Page #48	Item S. No.13 Technical specifications (c)	Sensor : 1/4-type Exview HAD CCD or better	Sony, Panasonic, Lumens	These are proprietary terms of Sony Cameras. We request you to make it generic by changing it to " 1 / 2.8 type CCD/ CMOS .	clarified above
190	Tender Document Page #48	Item S. No.13 Technical specifications (i)	Gain : Auto/Manual (-3 dB to +28 dB or higher in steps)	Sony, Panasonic, Lumens	This terms is specific to Sony Cameras. Kindly remove these figures and keep only Gain : Auto/Manual	clarified above
191	Tender Document Page #48	Item S. No.13 Technical specifications (m)	Video output : LAN, VBS, Y/C	Sony, Panasonic, Lumens	Kindly change it High Definition Sources which are :- HDMI, DVI, 3G-SDI	clarified above
192	Tender Document Page #48	Item S. No.13 Technical specifications (l)	Outputs up to 768 x 494	Sony, Panasonic, Lumens	Kindly upgrade it to high resolution output which is : 1920x1080	clarified above
193	Tender Document Page #48	Item S. No.13 Technical specifications (k)	Output format : VBS, Y/C	Sony, Panasonic, Lumens	To be removed as Video Output & Output Formats means the same.	clarified above

S.No	Page No	Clause,	Description	As per Bid Document	Pre-bid Queries from Bidder	Remarks
194	Tender Document Page #44	Item S. No.3		Crestron, AMX, Kramer, Extron.	Pls. add Lumens as an approved brand under this category as Lumens also has a recording & streaming hardware which is installed in many of the prestigious accounts like IITs and Government Training Institutions	Quote as per technical specification.
195	Tender Document Page #45	Item S. No.3 Technical specifications (f)	Should have Composite video input & 3G-SDI Input (optional) for the camera.	Crestron, AMX, Kramer, Extron.	Kindly replace Composite Video Input to HDMI/ DVI as Composite Video supports only Standard Definition Resolution.	clarified above
196	Tender Document Page #54	Item S. No.31 Technical specifications	Make: Lumens, Wolf vision, Gaoke, ELMO		Pls. remove Gaoke brand as it is not as per the standard of other mentioned OEMs.	clarified above
197	Tender Document Page #24	Point no-19	Alternatively system similar to "Webex" should also be possible within the classroom and multiple independent Users located at a distant location. This would allow for individual Users(people of International Repute) to take lectures from their Laptop (In an informal environment)		It is written that alternative system similar to webex must be possible, but Boq Doesn't consist on any line item to achieve such functionality please confirm how this is being achieved.	clarified above
198			9. Projectors:	Min 1 X HD BaseT ,	Built-in or Additional Receiver to be supplied so that the overall functionality is achieved. If HD-BaseT receiver has been considered as a separate line item, then this parameter can be omitted to make the specifications generic.	clarified above
199			9. Projectors:	1 x Mini DIN 4-Pin,	Due to limited connectivity options are not used in the connection options. Hence the same may be omitted from the tender specifications.	clarified above
200			9. Projectors:	1 x S-Video,	Due to limited connectivity options are not used in the connection options. Hence the same may be omitted from the tender specifications.	clarified above
201			9. Projectors:	e. HD BaseT digital interface Compliant.	Functionality to be completed via built-in or external receiver (If required)	clarified above
202			9. Projectors:	f. The projector should not be of portable series, Only installation grade projector should be quoted.	Different companies have different nomenclature for their projectors. Request you to remove this parameter to make the specifications generic.	clarified above
203			29. LED Monitor to act as Teleprompter in Classroom (FOR 90 PAX Spec Class)	Pixel Pitch (mm) 0.15375(H) x 0.46125(V)	Since the size being offered is higher, pixel pitch will vary accordingly. This parameter can be omitted to make the specs generic.	Pixel Pitch (mm) 0.15375(H) x 0.46125(V) is deleted
204			29. LED Monitor to act as Teleprompter in Classroom (FOR 90 PAX Spec Class)	Active Display Area(mm) 885.6(H) x 498.15(V)	Since the size being offered is higher, pixel pitch will vary accordingly. This parameter can be omitted to make the specs generic.	Active Display Area(mm) 885.6(H) x 498.15(V) is deleted
205			29. LED Monitor to act as Teleprompter in Classroom (FOR 90 PAX Spec Class)	Contrast Ratio(Typ.) 5000:1	Please specify separate values for IPS and VA Panels as contrast ratio for both is different. Kindly Mention, for IPS panel, Contrast ratio is min 1200:1 and for VA Panel, contrast ratio is min 3000:1	clarified above
206			29. LED Monitor to act as Teleprompter in Classroom (FOR 90 PAX Spec Class)	Inputs RGB (Analog D-SUB, DVI-D), Video (HDMI1 Component(CVBS Common), Audio (Stereo mini Jack)	- Please make the spec as DVI-D / HDMI as presently, HDMI inputs are more prevalent and acceptable video input. - Audio (Type RCA Pin Type X 2)	clarified above
207					1. Pre-qualification Criteria: The department has asked for the average annual financial turnover of INR 8 cr. Or above in each of the last three financial years from operations in India. The same is restricting the competition as you are asking for the turnover which is more than double the estimated cost and is also against the CVC and CPWD guidelines which states that the Average Annual financial turnover of the bidder during the last 3 years, ending 31st March of the previous financial year should be 30% of the estimated cost. Hence we request you to please check the same and amend this clause and the turnover should not be more than 1.04cr. The CVC guidelines have been attached herewith for your kind reference and perusal.	For a work of Rs. 3.47 crores to be completed in 1 year, minimum annual financial turnover can't be considered as Rs. 1.04crores. However, point no. 3 given in table (Technical Bid evaluation - Prequalification criteria) at page 11 of tender document has been amended as "The bidder should have an average annual financial turnover of INR 5 Crores or above in the last three consecutive financial years from operations in India "

S.No	Page No	Clause,	Description	As per Bid Document	Pre-bid Queries from Bidder	Remarks
208					2. Authorization from OEM: This clause should be removed at this stage of tendering as it increases the chances of exploitation by OEM and their preferred dealers/Distributors/Systems Integrators. If at all, it is required by the department then the same should be asked from the L1 bidder to ensure that the respective OEMs are ready to work with him and will provide full sales and service support. The similar procedure has now been adopted by various departments.	no change
209					3. Approved Makes: The brands specified in the tender are not at par with each other technically or commercially. Many of the items are only favoring to some specific brands/model numbers. Therefore we request you to please add and approve other renowned brands in the list of approved brands in the tender to make the tender generic and open for the competition. The same is enclosed as Annexure-1. We request you to please provide us the model no. of each approved brand or allow minor deviations from the technical specifications which will not affect the functionality of the system and the design intent will be intact.	no change
210					4. Minor Deviation: We further request you to allow the minor deviations in the technical specifications as the technical specifications have been made considering only one particular brand and not all other brands can comply with all technical parameter (laid in the tender). The same will not affect the functionality and deliverables of the system.	Quote as per technical specification.
211					• W.r.t. Item no. 3 on page no. 44: We would request you to kindly replace Composite Video Input to HDMI / DVI as Composite Video supports only Standard Definition Resolution.	Quote as per technical specification.
212					• W.r.t. Item no. 9 on page no. 46: Please clarify you have asked in the technical specifications of projector for 3 LCD Projector or you need 3 DLP Projector as it is few confusing to understand.	Quote as per technical specification.
213					W.r.t Item no. 13 on page no. 48 :- We would request you to upgrade the specifications of PTZ Cameras to High Definition or Full HD 1080p resolution. The reasons are mentioned below for your kind reference:-	Quote as per technical specification.
214					➤ All the latest PTZ Cameras comes with HDMI/DVI/3G-SDI interface. As per the current specifications, the PTZ Camera can only support standard definition resolution which delivers a very low quality video. Also, the standard definition PTZ Cameras are now being discontinued worldwide. Example: All new laptops comes with HDMI interface only and not with VGA port anymore.	Quote as per technical specification.
215					➤ Secondly, as per the schematics, all the output sources/items like displays and projectors mentioned in the tender specifications are of Full HD resolution. Therefore, ideally the PTZ Cameras should also be Full HD in order to make the complete solution viable.	Quote as per technical specification.
216					➤ Thirdly, there is not much of a cost difference between the Standard Definition & High Definition PTZ Cameras. HD Cameras are just 20-30% higher than the Standard Definition Cameras.	Quote as per technical specification.
217					• W.r.t Item no. 14 on page no. 48: You required the Inbuilt HD recording system, this should be amend as the technical specifications of video conferencing system meet with specified make only.	Already specified in specifications.
218					• W.r.t Item no. 25, 26, 27 on page no. 52: You have asked for the Analog Central Conference Controller Unit in the technical specifications of Audio Conferencing System as the availability of the same is in Bosch only.	Quote as per technical specification.

S.No	Page No	Clause,	Description	As per Bid Document	Pre-bid Queries from Bidder	Remarks
219					<ul style="list-style-type: none"> W.r.t. Item no. 31 on page no. 54: We request you to kindly remove Gaoke brand under Visualizers as this is an unknown brand whereas the other brands mentioned like Elmo, Wolfvision and Lumens are world renowned brands with a strong service and installation base across India. 	clarified above
220					<ul style="list-style-type: none"> Please note that AV contractor shall execute the work as per the design and specifications and itemized BOQ given in the tender. Hence AV contractor's responsibility towards the system performance is not justified and the onus of system performance shall be on the Consultant/Client design team. Moreover the performance will depend on the acoustics of the hall which has been vaguely defined in the tender. The acoustics of the halls should be properly designed by the consultant and specified clearly in terms of quality and quantity of items in the BOQ so that all the bidders can quote at par. AV contractor shall equalize the system to optimize the performance in the given circumstances. 	Quote as per technical specification.
221	25		Audio Conference Unit (FOR Highend High Specs Class) S.I.T.C. of Analog Central Conference Controller Unit	We would request to change the specification S.I.T.C. of Analog Central Conference Controller Unit to S.I.T.C. of Digital Central Conference Controller Unit	Only 1 Brand have Analog Conference controller unit(As per Approve make) , please generalise the specification so all brands can comply the specification.	Better specification is acceptable
222	25		Frequency response 200 Hz to 12 kHz or better for minimum 44 Delegate units	We would request to change the specification Frequency response 200 Hz to 12 kHz or better for minimum 44 Delegate units to Frequency response 20 Hz to 20 kHz or better for minimum 44 Delegate units		Better specification is acceptable
223	26		S.I.T.C. of Analog Delegate Microphone Unt	We would request to change the specification S.I.T.C. of S.I.T.C. of Analog Delegate Microphone Unt to S.I.T.C. of Digital Delegate Microphone Unt	Only 1 Brand have Analog Delegates unit (As per Approve make) , please generalise the specification so all brands can comply the specification.	Better specification is acceptable
224	26		Flexible stem of 480 mm in length & light ring	We would request to modify the specification Flexible stem of 480 mm in length & light ring to Flexible stem of 450mm to 500mm.		450 mm to 500 mm is acceptable .
225	26		two Headphone socket	We would request to modify the specification two Headphone socket to One Headphone socket	Only analog brand have 2 sockets port ,particular specification indicating the only single brand	Quote as per technical specification.
226	27		S.I.T.C. of Analog Chairman Microphone	We would request to change the specification S.I.T.C. of Analog Chairman Microphone Unit to S.I.T.C. of Digital Chairman Microphone Unit	Only 1 Brand have Analog Chairman unit(As per Approve make) , please generalise the specification so all brands can comply the specification.	Better specification is acceptable
227	27		two Headphone socket	We would request to modify the specification two Headphone socket to One Headphone socket	Only analog brand have 2 sockets port ,particular specification indicating the only single brand	Quote as per technical specification.
228	27		Flexible stem of 480 mm in length & light ring	We would request to modify the specification Flexible stem of 480 mm in length & light ring to Flexible stem of 450mm to 500mm.		450 mm to 500 mm is acceptable .

Note: The copy of the "Reply to Pre-Bid Queries" has to be attached along with bid and shall be considered as a part and parcel of the tender document. No separate corrigendum is being issued to avoid duplication in referring to the documents. **Bidder to submit bid after considering changes applicable in the tender on the basis of the "Reply to Pre-bid Queries" document.**