

CORRIGENDUM - I

for

Tender Notification No.: 24SP020T dated: 15.04.2024

Notice Inviting Tender for the Supply, Installation, Testing and Commissioning of IT & AV Devices at Chennai Campus of IIM Tiruchirappalli

Corrigendum/Amendments in the tender document

1. Please refer to the above-mentioned tender document Tender for the Supply, Installation, Testing and Commissioning of IT & AV Devices at Chennai Campus of IIM Tiruchirappalli.
2. The following changes have been made in the Tender Document through this corrigendum – I

S. No	Reference to the main Tender	Amendments
1	Page No. 23-28 of the Tender Document i.e. Annexure –II.	Page Number 23-28 stands cancelled, and Revised Annexure – II (Price Bid – BoQ) is incorporated from Page 6 of this Corrigendum. Hence, the bidder should quote their rate only in the Revised Price Bid as available in this Corrigendum – I and the same has to be placed in Price Bid Cover (i.e. Cover 2).
2	For any clarifications arise during execution, decision of Engineer i/c will be final and binding.	

S. No	Reference to the main Tender	Queries raised by the Bidders and Proposed Amendments	Changes/Reply/Decision of IIM Tiruchirappalli
1	NA	Transportation of existing material from existing facility to proposed facility - integrator/ Client scope?	Transportation should be arranged by the successful bidder/integrator. Institute will not pay extra amount other than amount quoted in the price bid.
2	NA	As we need to assess the condition of the existing setup, could you please provide the contact details of your team for coordination during the site visit?	Contact Person - Mr Sathis, 9790973898, Address - IIM Tiruchirappalli-Chennai Centre # 45, Nehru Street, Ramaniyam Siddharth Building (First Floor), Industrial Estate North Phase, Kalaimagal Nagar, Ekkattuthangal, Chennai - 600 032. (Located off Kasi Theatre Bridge, behind Jaya TV)

3	Point No. 3.07 of the Annexure -II	we assume existing 5 projectors will be installed along with the proposed 7 projectors to cater overall projector requirement of 11 nos. kindly confirm	There will be 7 new projectors and 4 existing projectors
4	Point No. 3.09 of the Annexure -II	8 nos. of ceiling mount kit for the projectors will not be sufficient to mount 11 nos. of projectors. Kindly confirm the quantity to be procured.	3 projector mounts are already available in the existing campus.
5	Point No. 3.08 of the Annexure -II	Eight motorized screens will not be sufficient as the overall requirement for the projectors is 11. Please confirm the quantity needed.	8 new screens to be provided. 2 screens (One manual and one motorized) are already available in the existing campus. Wall shall be used for the third existing projector in dining-common area.
6	Point No. 3.12 of the Annexure -II	Item #Xii - please specify the exact type of available item, such as Amplifier, Switcher, or Mixer.	Make and model will be provided. Amplifier (Make - QSC, Model -CX - 168, GX3), DSP Mixer (Make: QSC
7	NA	To assess the HDMI cable length, we need to understand the assumptions made during the solution's design process.	The Civil plan is available for verification and the same is attached as Appendix - I & II of the main tender document.
8	NA	We request your assistance in understanding the considerations made for AV setup at the dining-common area.	Only one projector along with an HDMI cable is needed in the dining common area.
9	NA	We need elevation drawings to assess the screen sizes and the ceiling mount kit length specified in the Bill of Quantities (BOQ).	The height from floor to ceiling is 11 Feet. The calculation can be made accordingly. The distance between the projector lens level and floor would be 8 feet. The projector positions should be adjusted accordingly.
10	Point No. 3.01 of the Annexure -II	Audio DSP is not mentioned in the BOQ.	Refer line item 3.01. Mixer & Amplifier should be provided with AEC functionality which will be used as amplifier and mixer. If the AEC functionality is not available in single box (mixer amplifier) then the vendor can provide separate mixer and amplifier.
11	NA	While comparing the BOQ with the schematic connectivity, we noticed that the cameras are missing. If cameras need to be included, please specify the	The institute has 3 cameras which will be used as plug and play as and when needed. The vendor should provide a suitable camera stand and USB cable connectivity.

		requirements and the required quantity.	
12	NA	Chat 150 is not considered in the BOQ. If required let us know the quantity	One number of chat 150 is available in the existing campus.
13	NA	camera models needed to consider the stand.	Camera models are already given under the list of available items (Page no 5, Point no g under scope of work section).
14	Point No. 3.06 of the Annexure -II	USB cables are not considered in the BOQ for connecting Camera with the PC.	Refer 3.06 in page no 26.
15	NA	Is it possible for us to participate solely for the AV requirement? Please confirm.	The vendor should quote for both AV and IT together.
16	NA	can we claim Security Deposit by submitting Bank Guarantee? Please confirm.	No. The Bidder should remit the SD amount in Institute Bank Account as per the tender terms
17	NA	Wall mount stand for installing the cameras in all the classrooms line items is missing in the price Bid BOQ.	The wall mount stand will be provided by the institute.
18	NA	Whether we have to dismantle the existing AV equipment, the address details are missing?	Yes. You should dismantle from the existing devices listed in the tender.
19	NA	Bifurcation BOM is required for existing AV equipment in room wise.	The list of all the reusable AV & IT items are given in the corrigendum.
20	NA	Amplifier and speaker impedance, DB level details are missing	The essential requirement of amplifier, mixer with AEC and Speakers are given in the Tender. The other parameters should be compatible with the interfacing devices to avoid any interoperability issues.
21	Point No. 3.06 of the Annexure -II	10m Active USB cable Approved brand details are missing.	Approved Makes: Belden, Canare, Extron, Crestron, Kramer, Lightware, AMX, Aten
22	NA	The controlling of HDMI input switcher details missing.	It should be configured such a way that when we connect a new HDMI device the same should be shown on the projectors. If only desktop is connected the same should be shown as output.
23	NA	How to lay the cables for 32mm conduit?	32 mm conduit will be laid by the electrical contractor. The AV cabling to be done by the successful bidder in coordination with Electrical contractor.

24	Point 1.03 of the Price Bid (i.e Annexure-II)	SITC of 24 ports LIU populated with at least 12ports. Splicing to be done in 36 cores and the cost for splicing to be included.	Total splicing needed is 36 cores out of which 12 cores in Rack 1(15U) and 24 cores in Rack 2 (42U).
25	Point No. g of Page 5 under Scope of the Work	Kindly provide the list of existing devices information with the Make & Model	<p>The Devices are available in the existing campus:</p> <ul style="list-style-type: none"> a) Laser projectors 5000 lumens (ViewSonic Laser Projector (Model: LS750WU)- 2 Nos. b) Lamp based LCD projectors (SONY, VPL-CH370) – 2 Nos. c) Dual channel hand held mic (Shure-BLX288IN, Audio Technica:- ATW - R200AD etc) – 3 Nos. d) Lapel mic (AKG SR40, Audio Technica, ATW - R200AD etc) – 5 Nos. e) 75” interactive display (Viewsonic IFP 7532-2) – 4 Nos. f) 55” LED display – 1 No. g) 24” Interactive monitors (XP Pen) – 6 Nos. h) Ceiling tile microphone clearone – 1 No. i) Chat 150 conference phone – 2 Sets. j) Lecture capturing Camera – 1 No. k) BCC 950 logitech camera – 3 Nos. l) Amplifier (CX-168 & GX 3), Mixer (QSC, Q-SYS Core 250i), Switcher (Krammer, v344HN & Extron, IN1606) – 2 Sets. m) AV Racks – 2 Nos. n) 24 Port Multi gig manageable Network Switch (Fortinet, M426E-FPOE) – 1No. o) 24 Port L3 manageable access switch (Juniper, EX2200 PoE) -1 No. p) Fortinet Firewall cum Wi-Fi controller 200E – 1 No. q) Motorized screen (TELON & Elite) - 2 Nos.

26	Line Item 3.01 in page number 26	Change in the specification:	Kindly refer to the Revised Annexure – II (Revised Price Bid (BoQ)) in this corrigendum –I .
27	Line Item 3.02 in page number 26	Change in the specification:	Kindly refer to the Revised Annexure – II (Revised Price Bid (BoQ)) in this corrigendum –I .
28	Line item 3.06 in page no. 26	The approved makes for Active USB Cable have been added.	Belden, Canare, Extron, Crestron, Kramer, Lightware, AMX, Aten. Kindly refer to the Revised Annexure – II (Revised Price Bid (BoQ)) in this corrigendum –I .
29	For line item 2.05 in page no. 25	Inclusion of a new make	Fortinet has also been included as an approved make. Kindly refer to the Revised Annexure – II (Revised Price Bid (BoQ)) in this corrigendum –I .
30	Line item 1.01 and 1.02 in page no. 23	The approved makes for Racks have been added.	Valrack, Rittal, Tripp-Lite, Netrack Kindly refer to the Revised Annexure – II (Revised Price Bid (BoQ)) in this corrigendum –I .

All other points mentioned in the Tender document other than the above Corrigendum will remain the same.

REVISED ANNEXURE-II: (Revised PRICE BID - BOQ)

S.no	Description	Unit	Qty	Rate per unit	Amount
1	Passive Components - IT				
1.01	SITC of 19 - 22 U Floor mount rack with 650mm depth for installing AV devices in classrooms. 4 wheels to be provided. At least 4 Fans to be provided. Three trays should be provided. Cable manager to be provided, Power manager to be provided. In addition to these new racks, one existing rack also to be used during installation. All the FAN slots should be populated with FANS. Approved Makes: Valrack, Rittal, Tripp-Lite, Netrack	Nos	6		
1.02	SITC of 42U with Minimum 650mm depth, two trays should be provided. Vertical Cable manager to be provided, Vertical Power manager to be provided. All the FAN slots to be populated from day 1. Approved Makes: Valrack, Rittal, Tripp-Lite, Netrack	Nos	1		
1.03	SITC of 24 ports LIU populated with at least 12 ports. Splicing to be done in 36 cores and the cost for splicing to be included. Approved Makes: AFL, Molex, Belden, AMP-Systemax.	Nos	2		
1.04	Multimode Pigtail connectors Approved Makes: AFL, Molex, Belden, AMP-Systemax.	Nos	36		
1.05	1 Meter OFC duplex patch cords –Multimode Approved Makes: AFL, Molex, Belden, AMP-Systemax.	Nos	5		
1.06	5 Meter OFC duplex patch cords –Multimode Approved Makes: AFL, Molex, Belden, AMP-Systemax.	Nos	2		
1.07	6 core rodent protected multimode OFC cable. Preferably armoured. Approved Makes: AFL, Molex, Belden, AMP-Systemax.	Meter	60		
1.08	Supplying and fixing of following MS CAT 6 patch cable to connect Jack panel to switch and IO port to the end user device. Approved Makes: AFL, Molex, Belden, AMP-Systemax.				
a	1 mtr	Nos	85		
b	2 mtr	Nos	85		
c	3 mtr	Nos	5		

d	10 Mtr	Nos	1		
2	Active Components - IT				
2.01	<p>SITC of 24 port Gigabit L3 manageable switch with Min. 4 X 10 G SFP ports. Should be able to use this as a core switch with multiple VLANs. 2 X 10 G SFP + multimode transceiver modules should be provided along with the switch from Day 1. The below mentioned switches will be connected as access switches.</p> <p>OEM Warranty: 5 Years</p> <p>Approved Makes: Cisco-enterprise version, HP, Juniper, Ruckus, Extreme, Fortinet</p>	Nos	1		
2.02	<p>SITC of 48 port Gigabyte L2 manageable access switch with Min. 2 X 10G SFP+ ports and Min. 10 X PoE + ports. 2 X 10 G SFP + multimode transceiver modules should be provided along with each switch from Day 1. OEM Warranty: 5 Years</p> <p>Approved Makes: Cisco-enterprise version, HP, Juniper, Ruckus, Extreme, Fortinet</p>	Nos	2		
2.03	<p>SITC of 2 MP, Indoor, night vision (Dome type), full HD (Dome Type) IP based, fixed lens, wide angle Surveillance Cameras along with junction box.</p> <p>OEM Warranty - 3 years</p> <p>Approved Makes: Axis/ Honeywell/ DVTEL/CP Plus/FLIR /Dahua/HIKVISION</p>	Nos	7		
2.04	<p>SITC of 16 channel NVR with at least one direct monitoring and at least one remote web-based monitoring, each channel should support 2 MP for recording, Min.2 X SATA Slots for storage (each slot should accommodate 8 TB) and one will be populated from Day 1.</p> <p>OEM Warranty - 3 years.</p> <p>Approved Makes: Axis/ Honeywell/ DVTEL/CP Plus/FLIR /Dahua/HIKVISION</p>	Nos	1		
2.05	<p>SITC of 10 Port (Min.) Gigabit smart managed pro switch, 2 SFP, L2/L3, POE enabled in all the ports for connecting 7+ cameras</p> <p>OEM Warranty - 3 years.</p> <p>Approved Makes: D-Link/Ruckus/HP/Extreme/Cisco Allied Telesys/Linksys/Fortinet</p>	Nos	1		

2.06	8TB SATA HDD for the above NVR. OEM Warranty - 3 years. Approved Makes - Seagate / Samsung/WD/Toshiba	Nos	2		
2.07	40-42" LFD wall mount Display which is suitable for 24/7 operation. OEM Warranty - 3 years. Approved Makes: Panasonic/Sony/Samsung/LG	Nos	1		
2.08	Shifting, Re-installation, Configuration and re-configuration of existing Fortinet Firewall (Fortinet 200E), Juniper switch and Fortinet switch as per the requirements of IIM Trichy.	LS	1		
2.09	Supplying, installation, configuration, testing and commissioning of WiFi Access points (4x4:4 in 5GHz, 4x4:4 in 2.4GHz) that comes with Wi-Fi 6 (802.11ax) capable of delivering 2.4Gbps in 5GHz and 1.148Gbps in 2.4GHz. OEM Warranty: 5 Years. Should be integrated with the existing fortinet Controller	Nos	4		
2.10	Supply, Installation, Testing & Commissioning of Ergonomic hearing aid compatible IP based Avaya telephone/handset that supports Message waiting indicator, Mute indicator with optional mute alerting, IC call alerting with 360-degree visibility, Dual-position stand, Gigabit Ethernet (10 / 100 / 1000) line interface, Second Ethernet interface 10 / 100 / 1000 Mbps, PoE Class (IEEE 802.3af) registers as class 1 device and supports 802.3az, SIP & H.323 protocol support, Should integrate with our existing Avaya IPPBX System R630 Avaya IPPBX. OEM Warranty: 3 Years Approved make: Avaya.	Nos	4		
3	AV Components				
3.01	SITC of Two channel 120W amplifier and digital smart mixer or DSP with AEC functionality. There should be at least 4 inputs (Handheld Mic, Lapel Mic, Computer in and Spare input) in the mixer and at least 2 outputs. If inbuilt mixer with AEC functionality is not available, then separate digital smart mixer or	Nos	2		

	DSP should be provided according to the microphone input requirement in the classroom. Approved Makes: Crown, QSC, Yamaha, audiotechnica, Bosch, TOA				
3.02	SITC of Two channel 160W amplifier and digital smart mixer or DSP with AEC functionality. There should be atleast 4 inputs (Handheld Mic, Lapel Mic, Computer In and Spare input) in the mixer and atleast 2 outputs. If inbuilt mixer with AEC functionality is not available, then separate digital smart mixer or DSP should be provided according to the microphone input requirement in the classroom. Approved Makes: Crown, QSC, Yamaha, audiotechnica, Bosch, TOA	Nos	3		
3.03	SITC of 60 watts wall mount speaker to connect with the 4 channel amplifier Approved Makes: JBL, QSC, Beyerdynamic, audiotechnica, TOA	Nos	12		
3.04	SITC of 80 watts wall mount speaker to connect with the 2 channel amplifier Approved Makes: JBL, QSC, Beyerdynamic, audiotechnica, TOA	Nos	4		
3.05	Supply and drawing of Fire retardant PVC insulated copper conductor cable via conduit including connections and interconnections etc., as required. Speaker cable single pair, 2 core 1.5 sqmm.	Mtr	550		
3.06	SITC of 10 Meter Active USB Cable to connect the Desktop with the Camera stand Approved Makes: Belden, Canare, Extron, Crestron, Kramer, Lightware, AMX, Aten	Nos	7		

3.07	<p>Supply, installation and fixing of Laser Projector with following Specifications Laser Resolution: 1920x1200, Brightness (Lumens): 5000 ANSI, Distance between the projector lens and the 120" diagonal screen: 4 meters (If the projector won't support this distance using the internal lens, then an external short throw lens is to be provided.), Light Source: Laser, Light source life, Normal: Minimum 20000 hrs, Aspect ratio: 16:10, Input Ports: Min. 2 X HDMI Ports (at least 1 with HDCP), Min 1 X USB port, Compatible PC resolutions (Windows/MAC): Min. 640 X 480, Max - 1920 X 1200.</p> <p>OEM Warranty - 3 Years.</p> <p>Approved Makes - Panasonic, Epson, Barco, Christie, Sony, Viewsonic.</p>	Nos	7		
3.08	<p>Motorized Screen with 122-inch diagonal width (+ or - 3 inches will be acceptable) and the aspect ratio should be 16:10, Remote and wired control to be provided.</p> <p>Approved Makes - Drapper, Elite, Telon, Liberty, Brandview</p>	Nos	8		
3.09	<p>3 Feet Ceiling Mount Kit for fixing the projectors - Heavy duty</p>	Nos	8		
3.10.	<p>20 Metre HDMI Cable for connecting the projectors with HDMI switcher, Approved Makes: Belden, Canare, Extron, Crestron , Kramer, Lightware, AMX, Aten</p>	Nos	7		
3.11	<p>15 Metre HDMI Cable for connecting the projectors with HDMI switcher, Approved Makes: Belden, Canare, Extron, Crestron , Kramer, Lightware, AMX, Aten</p>	Nos	7		
3.12	<p>10 Metre HDMI Cable for connecting the existing TV with HDMI switcher, Approved Makes: Belden, Canare, Extron, Crestron , Kramer, Lightware, AMX, Aten</p>	Nos	2		
3.13	<p>3 Metre HDMI Cable for connecting the Desktop with HDMI switcher, Approved Makes: Belden, Canare, Extron, Crestron , Kramer, Lightware, AMX, Aten</p>	Nos	7		
3.14	<p>1 Metre HDMI Cable for connecting the Wallplate with HDMI switcher, Approved Makes: Belden, Canare, Extron, Crestron , Kramer, Lightware, AMX, Aten</p>	Nos	7		

3.15	SITC of Cordless Handheld UHF Mic Single Channel which has to be connected with the mixer cum amplifier Approved Makes: Sehneiser, Beyerdynamic, audiotechnica, AKG, Clearone, Shure	Nos	1		
3.16	SITC of Cordless Handheld UHF Mic Dual Channel which has to be connected with the mixer cum amplifier Approved Makes: Sehneiser, Beyerdynamic, audiotechnica, AKG, Clearone, Shure	Nos	1		
3.17	SITC of Wireless Lapel Microphone which has to be connected with the mixer cum amplifier Approved Makes: Sehneiser, Beyerdynamic, audiotechnica, AKG, Clearone, Shure	Nos	4		
3.18	Supply, installation, fixing and testing of Min. 2 in Min. 2 out HDMI switcher. As a second option 2 input 1 output switcher and 1 input 2 output distribution amplifier along with necessary HDMI cable can also be provided to achieve the same functionality. Approved Makes: Extron, Kramer, Lightware, Crestron, AMX	Nos	7		
3.19	Cost for the Installation of existing AV system (mics, speakers, amplifiers, mixers etc.), Projectors, Switchers, racks, etc. The list of existing devices are given under the scope of the Work	Whole Job	1		
3.20	Cost for the Installation of existing ceiling tile microphone along with necessary CUSTOMIZED COVERED MOUNTING KIT AND USB CABLE Make: Clearone Model: Collaborate versa lite CT	Nos	1		
Total amount for the Supply, Installation, Testing, Commissioning, Lifting, Laying, Fixing, Labour and Packing, Loading, Unloading, Transportation and Freight, etc., and excluding GST					