



CSIR-INDIAN INSTITUTE OF CHEMICAL BIOLOGY
(COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH)
4, Raja S. C. Mullick Road, Jadavpur, Kolkata – 700032 India
PHONE: +91 33 2483-1982 **EPABX:** +91 33 2499 5837, 5788
FAX: + 91 33 2473-5197 **website:** <http://www.iicb.res.in>



Enquiry No.: IICB/PUR/24-25/599/569/804

Date: 02.04.25

Corrigendum / Addendum to Tender Document

It is hereby informed that the tender for supply, installation testing and integration of Hosting and Streaming Facility Components For Auditorium of Jadavpur Campus, CSIR IICB has been published in NIC CPP Portal (<https://etenders.gov.in/eprocure/app>) vide tender ID 2025_CSIR_230360_1. . In this regard a revised Technical Specification (Chapter 4) of the Tender Document is once again enclosed herewith (Annexure A) for information and downloading. The copy of the same has also been uploaded in CSIR-IICB website.

All the prospective bidders are hereby requested to kindly see the corrigendum notice dated 02.04.25 and submit their bid/ offer/ quotation accordingly.

All other terms and conditions of the said tender notification will remain unchanged.

Section Officer (Stores & Purchase)
For & On Behalf of CSIR

Annexure A

S.No. 1 Technical Specifications for Media processor with inbuilt web management software

S.No.	Technical Parameter	Specifications
1	Recording, Live Streaming & Webcasting, HD Switching and Mixing	The Media Processor must have in built features like Recording, Live Streaming & Webcasting simultaneously , Source Scaling Switching, Vision Mixing , Audio Mixer etc.
2	Inputs & Outputs	Inputs: Built-in Minimum of 4x HDMI & IP Inputs with Minimum of 4x Line Inputs Audio Inputs: Minimum of 2 x 3.5mm line-in Embedded audio via HDMI Outputs: Minimum of 2x HDMI Outputs. The system should be capable to record up to any four inputs simultaneously in a single frame and as well as individual sources simultaneously. The System Output should also support external switcher to extend multiple output display sources for scalability.
3	Recording	The device should support record everything including minimum of four independent video inputs. Having access to each track is ideal for customers who wish to share an edited version of an event. Videos are recorded in high quality. Files are compliant with standard editing systems for fast turnaround post-production. Recordings are stored on-board (to the unit's HDD) locally (to a USB drive), to network storage (NAS), or uploaded to a remote server by FTP. The Recording format will be MP4. The system should be capable to record up to any four inputs simultaneously in a single frame and as well as individual sources simultaneously.
4	Streaming	The device has independent encoders to give you complete control over bitrates, streaming protocol, and destination. The recording can be set at the highest quality for archiving and sharing over local networks. The data rate of the streaming output can be reduced if necessary to adjust for Internet upload speeds. The device should also deliver an excellent user experience for YouTube and Facebook audiences etc. Streaming Protocols Support: RTSP, RTMP, and Multicast. The device also supports dual streaming to platforms such as YouTube, Facebook, and custom servers etc..
5	Automation and Scheduling	Sessions and events are run according to a timetable. The media processor should be pre-programmed to record and stream automatically. The unit imports apps like Microsoft Outlook and Google calendars etc. can be integrated to automate media processing schedules.
6	In built storage and NAS Support	The Media processor should have minimum of 1TB inbuilt storage and also should support LAN connected NAS storage. It also supports USB drives and external storage devices.
7	Web Management Software	The Media processor should have in built web management software accessible locally through LAN and manage the inputs, outputs recording, streaming, webcasting , mixing , switching , over lay , PIP features etc.

8	Ease of Control	Basic button controls on the unit itself trigger recording, switching, and streaming. Plug in a keyboard, mouse, and dual displays for access to system settings, advanced controls, PTZ camera control, and program output. Lecturers and presenters can create their own production live with the optional remote control panel. Easily deploy custom-made layouts that best show off their presentation or production.
9	Network	Built in Network Ethernet Port Minimum of 1 x RJ45 (10/100/1000 Mbps) Web-based control and streaming. Network Protocols support like HTTP, HTTPS, FTP, RTMP, RTSP, and ONVIF.
10	Unicast Support	The Media processor should support minimum of 3 unicast streams.
11	Integrate with third-party platforms	The device should support third-party integrations, including enable remote scheduling and automatic upload to media and learning platforms.
12	Layouts and Scene Switching	Multiple Layout Options: Full-screen, Picture-in-picture, Side-by-side, Quad view, Split-screen etc. Scene Switching: Smooth transitions between pre-configured scenes.
13	Other Features and Specifications	The device should support RTMP, RTMPS, MPEG-TS, TCP and UDP streaming protocols. Full Panopto integration and Crestron control. The media processor allows to mix four video and computer sources to create engaging and attractive presentations and productions, complete with logo overlay, optional timestamp, and choice of background. The system records each HD input independently (plus the program output) and uploads events, lectures, and conferences to different platforms. The system also streams live to users local and global over preferred platforms including YouTube, Twitch, Facebook, and Livestream. The system also supports to integrate with applications such as Wirecast, vMix, and OBS Broadcast etc. Ease of Use: Intuitive user interface with on-screen preview. Audio Support: Embedded and external audio mixing.
14	Control Interfaces	Web-based interface accessible via browser. RS232 and Telnet support. Physical Buttons: Basic controls on the device.
15	Certification's	The Media processor should be CE, FCC & RoHS certified with Test Lab Reports.
16	Other Accessories	All necessary cables and accessories should supply as per the requirement for complete setup and integration with existing audio & video system of CSIR-IICB Jadavpur Campus, Kolkata
17	Installation & Integration	Complete installation and integration with existing audio & video system of CSIR-IICB Jadavpur Campus, Kolkata Auditorium System
18	Warranty	3 years on-site warranty

S.No.2 PTZ broadcast streaming camera with stand & mounting kit

S.No.	Technical Parameter	Specifications
1	Camera Type	PTZ broadcast streaming camera
2	PTZ Function	Yes (High Precision Motorized-PTZ)
3	Resolution	4K @60fps or Higher
4	Zoom Range Optical (Maximum)	30X or higher
5	Camera Positioning System	Preset and It may support minimum of 255 Presets
6	Camera Output	Camera should support simultaneous outputs through Ethernet, HDMI, 3G -SDI, Audio In and can be controlled via RS232 & 422 In & Out & IP
7	Field of View (Degree)	Minimum 68 or Higher
8	Panning Angle	-170° ~ +170° or higher
9	Camera Control (focusing, brightness, and white balance)	Automatic
10	Tilting angle	-30° ~ +90° or Higher
11	Other features protocols support	SRT, FreeD Protocol, PoE and Virtual USB Driver
12	Certification's	The item should be BIS, CE, FCC & RoHS Certified with Test Lab Reports
13	Other Accessories	All necessary cables and accessories should supply as per the requirement for complete setup and integration with existing audio & video system of CSIR-IICB Jadavpur Campus, Kolkata
14	Ceiling / Mount kit and Stand Mountable Kit & Tripod with Accessories	Must provide all necessary accessories to fix the camera on wall / ceiling mountable kit and also must supply the stand tripod to fix the camera along with accessories.
15	Installation & Integration	Complete installation and integration with existing audio & video system of CSIR-IICB Jadavpur Campus, Kolkata Auditorium System
16	Management Control Software	The camera should be controlled through a centralized software through LAN network.
17	Warranty	3 years on-site warranty

S.No.3 Extender kit for input and output devices [Transmitter and Receiver Pair]

S.No.	Technical Parameter	Specifications
1	Description	4K HDMI extender kit (Transmitter and Receiver pair)
2	Transmitter - Input Port and Output Port	Transmitter should have Minimum 1x HDMI & 1x RS -232 input port. Minimum 1x HDBaseT (RJ-45) & Minimum 1x IR Blaster (3.5mm) output port. Maximum Input HDMI 4096x2160p@60 YUV 4:2:0 and Maximum Output HDBaseT 4096x2160p@60 YUV 4:2:0.
3	Receiver - Input Port and Output Port	Receiver should have Minimum 1x HDMI & 1x RS -232 output port. Minimum of 1x HDBaseT (RJ-45) & 1x IR Receiver (3.5mm) input port. Maximum Input HDMI 4096x2160p@60 YUV 4:2:0 and Maximum Output HDBaseT 4096x2160p@60 YUV 4:2:0.

4	Transmitter & Receiver HDMI Complaint and Extension Length Support	Both Tx and Rx should be HDMI 2.0 and HDCP 2.2 compliant. The Extension length should support minimum of 40 meters at 4K and 70 meters at Full HD. Should support CEC bypass and pass through audio formats including LPCM (up to 8 channels), Bitstream, and HD Bitstream and Deep Color input and output up to 12-bit.
5	Certification	The product should be CE & FCC Certified
6	Installation & Integration	Complete installation and integration with existing audio & video system of CSIR-IICB Jadavpur Campus, Kolkata Auditorium System
7	Warranty	3 years on-site warranty

S.No.4 1X8 HDMI Splitter for extension of multiple output devices

S.No.	Technical Parameter	Specifications
1	Splitter Type	HDMI Splitter
2	Input & Output Ports Support	Minimum One Input Port and Minimum 8 Output Ports
3	HDMI Compliance	HDMI 2.0
4	HDCP Compliance	2.2
5	Input Signal Types	4K@60
6	Output Signal Types	4K@60
7	Installation & Integration	Complete installation and integration with existing audio & video system of CSIR-IICB Jadavpur Campus, Kolkata Auditorium System
8	Warranty	3 years on-site warranty

S.No.5 PoE Managed Network Switch - 16 Port / AV Network Managed Switch

S.No.	Technical Parameter	Specifications
1	Switch Type	POE Managed
2	Number of Ports	Minimum 16 Ports
3	Multi gigabite Support	Yes
4	Uplinks Ports Support	Minimum 1G Support two number of Uplinks Ports
5	Installation & Integration	Complete installation and integration with existing audio & video system of CSIR-IICB Jadavpur Campus, Kolkata Auditorium System
6	Warranty	3 years on-site warranty

S.No.6 Confidence Display Monitor including Stage Fixing Stand

S.No.	Technical Parameter	Specifications
1	Display Size	55 inches
2	Display Type	LED / OLED / QLED / LCD
3	Aspect Ratio	16:09
4	Resolution	3840 x 2160 (4K UHD) / 1920 x 1080 (Full HD)
5	Backlight Type	Edge-lit / Direct-lit / Full-array
6	HDMI Ports	2 Minimum
7	USB Ports	2 Minimum
8	Ethernet (RJ45)	Yes

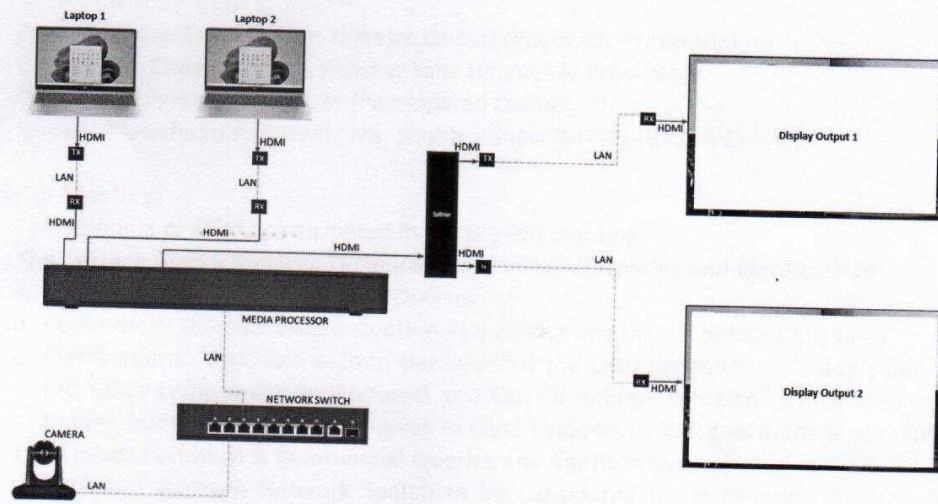
9	Wi-Fi	Yes
10	Bluetooth	Yes
11	Built-in Speakers	Yes
12	Power Supply	AC 100-240V, 50/60Hz
13	Stand Type	Adjustable
14	Touchscreen	Yes
15	Remote Control	Yes
16	OS Compatibility	Windows / macOS / Linux
17	Certifications	Energy Star / RoHS / FCC / CE
18	Low Height Confidence Display Monitor Stand (Stage Adjustable)	The stage confidence monitor stand should compatible and fit the 55 inches display monitor (S.No.6 Display Monitor) to keep at jadavpur campus auditorium stage by default and it should also support and adjustable to other size monitors in between: 32 to 75 inches. The stand should be options to adjust the viewing angle, different size display monitors and height. The stand may have made it by metal preferred. The stand may have the wheels and wheels locks for free movement & locking.
19	Power Cable with 10 Meters Length	Yes
20	HDMI Cable 2.0 or above version support with 10 Meters Length	Yes
21	Warranty	3 years on-site warranty

S.No.7 Consumables items like cat6 Cables & HDMI cables, power cables, accessories and converters / adapters

S.No.	Technical Parameter	Specifications
Cat 6 Cable		
1	Cable Type and Length	Cat 6 Type and 305 Meters
2	Type and Standard	UTP & Cat 6 Standards
3	Installation & Laying	Laying and installing of Cat6 cables connect all input devices, output devices and controlling devices with all necessary connectors, conduit and clams.
HDMI Cable with Surge Protector Adapter		
1	HDMI Version	HDMI 2.0 or Higher
2	Resolution & Refresh Rate support	4K @ 60Hz or Higher
3	HDR Support	Yes
4	Length	10 Meters
5	HDMI Surge Protector Adapter	Must supply HDMI Surge Protector Adapters for both ends of all HDMI cables to connect input devices, output devices and controlling devices.
Power cables		
1	Length and Standard	10 Meters Length and Common Indian Standard
Audio Cable including compatible terminator audio jack		
1	Compatible audio cables for all input and out devices	Must supply the compatible audio cables as per the requirement including compatible and suitable audio jacks for input devices, output devices and controlling devices.
USB Extension Cables		
1	USB Extension Cable	High Standard USB Extension Cable with 2.0 and 3.0 support and length should be minimum of 10 Meters

Installation, Integration, Services, Other Terms & Conditions:

- The Items from S. No. 1 to 7 should be compatible with each other.
- The above items are supplied, installed and integrated with existing audio and visual system of auditorium of the CSIR-IICB, Jadavpur Campus along with all accessories and services required for complete setup including cables, adapters and converters and it is the scope of the vendor or supplier.
- The firm or vendor is also responsible for laying of cat6 cable including conduit pipe fixing and setup of cat6 network required for this facility within the auditorium of CSIR-IICB Jadavpur Campus to integrate all hosting & streaming equipment with LAN Network.
- In some cases, during installation and integration of above listed items with existing setup of audio and visual system, any other cables, adapters, converters, etc. to setup complete hosting and streaming setup then the vendor or supplier must arrange and complete with extra no cost to CSIR-IICB.

**Representation Image**