

ELIGIBILITY, TECHNICAL QUALIFICATION AND GENERAL TERMS & CONDITIONS

1. Technical Evaluation Enclosures

- i. Warranty of the Materials: The Bidder must provide warranty and service support for the materials for 36 months or Higher.
- ii. Mandatory Site Visit to understand the requirements:
Vendor should visit the campus to verify the area and submit the bid. Also, the Vendor is required to obtain the certificate from the concerned Institute authorities for having visited the campus and inspection of the same.
- iii. Copy of Site survey Report and AVIT Schematic Diagram: Bidder should upload attested copy of site survey report. Bidder should upload AV (Audio Video) schematic diagrams.
- iv. Data sheet and Compliance: Bidder should upload Data Sheet and Compliance to the technical specification.

2. OEM Eligibility for LED Video Wall

- i. OEM shall have ISO 9001, ISO 14001, OHSAS 45001, ISO 27001, Green House Gas Verification-ISO14064-1:2018, EPR Registration certificate to be submitted. All these certificates to be issued by accredited labs who are authorized to conduct audits & issue these certificates
- ii. OEM of the offered All in one screen should be present in India with a registered office for minimum ten years from the date of the bid.
- iii. Valid BIS certificate to be provided for the offered LED tiles/cabinets. BIS certificate for module shall not be considered as valid BIS certificate for the product. The offered model should be clearly mentioned in the BIS certificate.
- iv. OEM should have a turnover of minimum 3.7 crores INR in India
- v. OEM should have its own service centre in India managed by their own engineers

3. Bidder Eligibility Criteria

Company Registration

- i. The bidder shall be a legally registered company/LLP/Partnership/Proprietorship with a minimum of **3 years** of existence as on the date of bid submission.
- ii. Valid PAN, GST Registration, and Trade License (where applicable) shall be submitted.

Financial Capability

- i. Average annual turnover of **₹3.7 Crores** during the last three audited financial years.
- ii. Positive net worth during the last three financial years.

Experience

- i. Similar AV projects shall include installation, testing and commissioning of integrated Audio-Visual systems in Educational Institutions, Government organizations, Corporate offices.

OEM Authorization

- i. Valid Manufacturer Authorization Form (MAF) should be Ink signed from all major OEMs proposed.

4. Installation Capability

The bidder shall provide: Installation methodology, Project schedule, Testing & Commissioning Plan, Training for end users.

- i. The Successful Bidder shall be responsible for providing a complete, integrated and fully functional Recording and Live Streaming solution for the 240-Seater Seminar Hall, complete in all respects and ready for operational use upon commissioning and handover to the Institute.

The scope shall include, but shall not be limited to, all cameras, camera control and management systems, recording facilities, live streaming facilities, switching, monitoring, control interfaces, required hardware, software, licences, subscriptions, activation, connectivity, integration, configuration, accessories and any other components, equipment or services required for achieving the intended end-to-end functionality of the system and the bidder shall be responsible for the complete installation, deployment, configuration, testing, commissioning and training of the supplied system. The scope shall include all associated works and materials, including laying/routing of cables, pipes, conduit pipes, cable management and other required accessories/consumables, necessary for complete and satisfactory commissioning

- ii. The Successful Bidder shall ensure that the entire system is supplied, installed, configured, integrated, tested, commissioned and demonstrated successfully and that all specified functionalities are fully operational from Day One of commissioning/handling over.

The bidder shall conduct an end-to-end demonstration and obtain acceptance of the complete functionality from the Institute's authorized representatives. Any item, component, software, license, subscription, activation, service or requirement necessary for the proper and intended functioning of the complete system, whether specifically mentioned in the tender documents or otherwise reasonably required for successful commissioning and operation of the proposed solution, shall be deemed to be within the scope of the Successful Bidder and included in the quoted price.

No additional cost, licence fee, subscription fee, activation charge, integration charge or any other expenditure whatsoever shall be payable by the Institute for making the system complete and fully functional for its intended purpose during the applicable warranty/support period.

5. Original Product

The offered products shall be a brand-new, unused and current production model manufactured by the Original Equipment Manufacturer (OEM).

The supplied product shall not be refurbished, reconditioned, used, demo or refurbished-stock equipment.

6. Technical Compliance

The bidder shall submit a point-by-point Technical Compliance Statement against each specification mentioned in the tender document.

The bidder shall clearly indicate: "Complied" against each requirement along with mentioning the Exact offered specification wherever applicable.

The bidder shall provide the OEM product datasheet/brochure/specification sheet Clearly indicating the offered configuration.

7. Make and Model

The bidder shall clearly mention the Make and Exact Model Number of the Items being offered.

The same make and model shall be supplied throughout the order.

8. After-Sales Service

The bidder/OEM should have an established service support mechanism in India.

The bidder shall provide details of the nearest authorized service centre/support facility, if requested by the Institute.

In case of any hardware failure during the warranty period, the bidder shall arrange repair/replacement at no additional cost.

9. Delivery and Inspection

The supplied Items shall be delivered to:

Indian Institute of Information Technology Dharwad (IIIT Dharwad) Dharwad, Karnataka.

The Institute reserves the right to inspect and verify the supplied equipment against the specifications before acceptance.

- 10.** A Pre-Bid Meeting shall be conducted by IIIT Dharwad to provide an opportunity to the prospective bidders to seek clarifications regarding the scope of work, technical specifications, site conditions, installation requirements and other provisions of the Bid Document.
- 11.** The date, time and venue/mode of the Pre-Bid Meeting shall be as specified in the GeM Bid. Bidders are advised to submit their queries in writing within the prescribed time before the Pre-Bid Meeting.
- 12.** Liquidated Damages for Delay: In case the successful bidder fails to complete the supply, installation, testing, commissioning and handover within the stipulated delivery/completion period, Liquidated Damages shall be applicable as per the provisions of the GeM GTC, at the rates and subject to the maximum limit prescribed therein. The Institute shall have the right to recover such LD from any amount payable to the bidder or from the Performance Security/ePBG, as applicable.
- 13.** Payment: Payment shall be released through GeM in accordance with the applicable GeM GTC and contract terms, upon successful supply, installation, testing, commissioning and acceptance of the complete AV system by the Institute. No payment shall be considered due merely upon delivery of individual equipment/items where complete system integration and commissioning are pending.
- 14.** Warranty should commence from: the date of successful installation, commissioning and acceptance of the complete system by IIIT Dharwad, and not merely from the date of supply/delivery.
- 15.** Any equipment/system remaining non-functional due to a warranty-related defect for more than the prescribed resolution period shall have its warranty extended by the equivalent period of downtime. In case of repeated failure of the same equipment, the Institute may require replacement of the defective equipment with a new equivalent or superior model at no additional cost.
- 16.** The successful bidder shall carry out periodic preventive maintenance of the complete AV system during the warranty period, including inspection, cleaning, testing, calibration, firmware/software updates where applicable, health check of connected equipment and verification of system performance, without any additional cost to the Institute.
- 17.** The successful bidder shall submit final as-built AV schematic drawings reflecting the actual installed configuration, equipment locations, cable routes, rack layout, network connectivity, port mapping, IP addressing details where applicable, equipment make/model/serial numbers and interconnection details.
- 18.** All software, operating systems, firmware, drivers, utilities and licences specifically required for the supplied system to function as specified shall be genuine, properly licensed and supplied by the successful bidder/OEM. The bidder shall provide valid licence documentation wherever applicable. No pirated, unauthorized or trial software shall be supplied.

19. The successful bidder shall be responsible for any damage caused to the Institute's building, furniture, electrical installations, network infrastructure or other property during transportation, installation, cabling, commissioning or removal of temporary works. Any such damage shall be repaired/restored by the bidder at its own cost to the satisfaction of the Institute.
20. The successful bidder shall be responsible for ensuring compliance with all applicable labour, safety, electrical and statutory requirements in respect of personnel deployed at the Institute. The bidder shall ensure that all personnel engaged for installation and commissioning follow the safety and security requirements of IIIT Dharwad.
21. The successful bidder shall not subcontract the whole or substantial part of the work without prior written approval of IIIT Dharwad. Any approved subcontracting shall not relieve the successful bidder of its contractual obligations, responsibility for quality, warranty, service or performance.
22. The successful bidder shall maintain confidentiality of all Institute information, network configuration, credentials, recordings and other information accessed during installation, commissioning and maintenance. No Institute data, video recording, configuration information or credentials shall be copied, transferred or disclosed to any third party without prior written permission of the Institute.
23. Where any equipment is found defective beyond economical repair or repeatedly fails during the warranty period, the bidder shall replace the same with a new equipment of the same or higher specification, make/model subject to OEM availability, without any additional cost to the Institute.
24. The successful bidder shall supply the exact make and model declared in its technical bid for each individual item. No change of make/model shall be permitted after award without prior written approval of the Institute and only where permissible under GeM terms.
25. Bidders shall submit all queries/clarifications relating to the Bid Document within the period prescribed in the GeM Bid. The Institute may issue clarification/corrigendum based on the queries received. Bidders shall be responsible for taking into account all such clarifications/corrigenda while submitting their bids.
26. Clarifications issued by IIIT Dharwad during/after the Pre-Bid Meeting shall be uploaded/communicated through the GeM portal, wherever applicable, and shall form part of the bidding document.
27. No individual clarification or assurance given verbally during the site visit or Pre-Bid Meeting shall be binding on the Institute unless the same is formally issued through the GeM portal/corrigendum.
28. The bidder shall be deemed to have considered all costs associated with site conditions, transportation, loading/unloading, installation, mounting, cabling, conduits, cable management, testing, commissioning and other incidental works in its quoted price. No additional claim shall be entertained subsequently on the ground that the bidder was unaware of the site conditions.
29. The Institute shall reserve the right, but without any obligation to do so, to increase or decrease the ordered quantity up to 25 percentage at any time, till the final delivery date of the contract, by giving reasonable notice and commensurate delivery period, even though the quantity ordered initially has been supplied in part/full before the last date of Delivery Period.
30. The EMD / Bid Security, if applicable, shall be as specified in the GeM bid document and shall be submitted in the manner prescribed therein.
31. Bidders seeking exemption from EMD shall submit the relevant valid exemption documents and Bid Security Declaration wherever applicable under the GeM provisions.

- 32.** The successful bidder shall furnish Performance Security / Performance Bank Guarantee as specified in the GeM bid and tender conditions.
- 33.** Performance Security shall remain valid for the period prescribed in the tender/GeM conditions and shall cover the contractual obligations of the successful bidder.
- 34.** Bid Security may be forfeited / action may be taken in accordance with applicable GeM provisions if the bidder withdraws or modifies the bid during bid validity, furnishes false/forged documents, or fails to furnish required performance security after award.
- 35.** Bidder shall not be blacklisted/debarred by Government Departments, Government organizations, PSUs or statutory authorities as applicable.

ANNEXURE – 1

BIDDERS GENERAL INFORMATION

(To be given on Company/Firm Letter Head)

Sl. No.	Particulars	Details
1	Bidder's Firm/Company Name	
2	Name of Proprietor/Partners/Directors	
3	Name of Power of Attorney Holder / Authorized Signatory	
4	Date and Year of Establishment	
5	Number of Years of Experience	
6	Address of Registered Office	
7	Email Address	
8	Phone Number	
9	PAN No.	
10	GST No.	
11	MSME Status (Yes/No)	
12	Startup Status (Yes/No)	
13	Average Annual Turnover	
14	Net Worth	

Remarks: This annexure must be submitted in the Technical Bid along with valid supporting documents.

Date: _____ Place: _____

Signature of the Authorized Signatory of the Bidder/Firm

Name: _____ Designation: _____ Official Seal:

ANNEXURE – 2

NON-BLACKLISTING DECLARATION

(To be given on Company/Firm Letter Head)

Date: _____

Tender Reference No.: _____

Name of Tender / Work: Information and Communication Technology (ICT) / Audio-Visual Infrastructure for Seminar Hall–1 and Seminar Hall–2, IIIT Dharwad.

Dear Sir,

We hereby declare that M/s _____ and its proprietor/partners/directors, as applicable, have not been blacklisted, debarred or banned by any Central/State Government Department, Government Agency, Public Sector Undertaking or Regulatory Authority for fraudulent activities or material misconduct as on the date of submission of this bid.

We further certify that all information furnished by us is true and correct.

Yours faithfully,

Signature of the Bidder with Official Seal

Name:

Designation:

ANNEXURE – 3

TENDER ACCEPTANCE LETTER

(To be given on Company/Firm Letter Head)

To,
The Registrar
Indian Institute of Information Technology Dharwad
Dharwad, Karnataka – 580009

Date: _____

Subject: Acceptance of Terms & Conditions of Tender

Tender Reference No.: _____

Name of Tender / Work: ICT / Audio-Visual Infrastructure for Seminar Hall–1 and Seminar Hall–2, IIIT Dharwad

1. I/We have downloaded/obtained the tender document(s) for the above-mentioned Tender/Work from the websites/GeM Portal as per the tender advertisement.
2. I/We hereby certify that I/we have read the entire Terms and Conditions of the tender documents, including all annexures, schedules and technical specifications, which form part of the Contract Agreement, and shall abide by all the terms and conditions contained therein.
3. The corrigendum(s)/addendum(s) issued from time to time have also been taken into consideration while submitting this bid.
4. I/We hereby unconditionally accept the tender conditions in their totality and entirety.
5. I/We declare that our firm has not been blacklisted/debarred/banned by any Government Department/Public Sector Undertaking, subject to the declaration submitted with the bid.
6. I/We certify that all information furnished by our firm is true and correct and understand that false/incorrect information may lead to rejection of the bid or termination of the contract and other action as applicable.

Yours faithfully,

Signature of the Bidder with Official Seal

Name:

Designation:

ANNEXURE – 4

SITE VISIT CERTIFICATE

This is to certify that M/s _____ has visited the campus of Indian Institute of Information Technology Dharwad and inspected the proposed installation locations for the work of Information and Communication Technology (ICT) / Audio-Visual Infrastructure for Seminar Hall–1 and Seminar Hall–2.

The bidder has inspected the site conditions and has been advised to consider all relevant requirements before submission of the bid.

Date of Visit: _____

Name of Bidder Representative: _____

Designation: _____

Signature of Bidder Representative: _____

For IIIT Dharwad

Name: _____

Designation: _____

Signature & Official Seal: _____

ANNEXURE – 5

LETTER OF AUTHORISATION TO ATTEND THE PRE-BID MEETING

(To be provided on the Letter Head of the Agency/Firm)

To,
The Registrar
IIIT Dharwad

Subject: Authorization for attending the Pre-Bid Meeting in respect of Tender for ICT / Audio-Visual Infrastructure for Seminar Hall–1 and Seminar Hall–2 at IIIT Dharwad.

I/We, M/s _____ hereby authorize the following representative(s) to attend the scheduled Pre-Bid Meeting against the above Tender Document.

Sl. No.	Name of Authorized Representative	Designation	Phone No.	Specimen Signature
1				
2				

We confirm that we shall be bound by all commitments made by the above authorized representative(s).

Date: _____ Place: _____

Signature of Authorized Signatory

Name: _____

Designation: _____

Official Seal: _____

ANNEXURE – 6

ANNUAL TURNOVER AND NET WORTH DETAILS

(To be provided on the Letter Head of the Chartered Accountant)

This is to certify that the annual turnover and net worth of M/s _____ during the following financial years are true and correct.

Sl. No.	Financial Year	Annual Turnover (₹)	Net Worth (₹)
1	2025-26		
2	2024-25		
3	2023-24		

Average Annual Turnover: ₹ _____

Date: _____ Place: _____

Signature and Seal of Authorized Chartered Accountant

UDIN: _____

Name: _____

Membership/Registration No.: _____

Note: The document shall be certified/validated by the Chartered Accountant with name, registration/membership number, signature, stamp and UDIN. Relevant audited financial statements/ITR documents shall be attached.

ANNEXURE – 7

MANUFACTURER AUTHORIZATION FORM (MAF)

(To be issued on OEM Letterhead)

To,
The Registrar
Indian Institute of Information Technology Dharwad

Subject: Manufacturer Authorization for GeM Bid/Tender No. _____

We, M/s _____, being the Original Equipment Manufacturer (OEM) of _____, hereby authorize M/s _____ to quote, supply, install, commission and provide warranty/service support for our products proposed under the above tender.

The offered product(s)/model(s) are:

Sl. No.	Product	Make	Exact Model	OEM Warranty
1				
2				
3				

We confirm that the authorized bidder shall receive necessary technical support from us during implementation and warranty, as applicable.

For OEM
Authorized Signatory
Name:
Designation:
Contact Details:
Official Seal

ANNEXURE – 8

TECHNICAL COMPLIANCE STATEMENT

(To be submitted on Company/Firm Letter Head)

Sl. No.	Tender Specification / Requirement	Compliance (Yes/No)	Exact Offered Specification	Make	Model	OEM Datasheet Reference
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

Note: Generic compliance statements without supporting technical details may not be considered sufficient. The bidder shall attach relevant OEM datasheets/brochures.

ANNEXURE – 9

WARRANTY UNDERTAKING

(To be provided on Company/Firm Letter Head)

We hereby undertake that all equipment supplied under GeM Bid/Tender No. _____ shall be covered by a minimum comprehensive warranty of 36 months from the date of successful installation, testing, commissioning and acceptance, or higher warranty wherever specified.

During the warranty period, we shall repair or replace defective equipment/components covered under warranty at no additional cost to IIIT Dharwad, including applicable labour and service expenses.

We shall provide service support through our authorized service mechanism in India.

Signature of Authorized Signatory

Name:

Designation:

Official Seal:

Date:

ANNEXURE – 10

OEM ELIGIBILITY DOCUMENT CHECKLIST – LED VIDEO WALL

Sl. No.	Requirement	Document Submitted / Page Reference
1	OEM registered office/presence in India for minimum 10 years	
2	ISO 9001	
3	ISO 14001	
4	OHSAS 45001	
5	ISO 27001	
6	Green House Gas Verification – ISO 14064-1:2018	
7	EPR Registration Certificate	
8	OEM turnover minimum ₹1,000 Crores in India	
9	OEM own service centre/service support facility in India	
10	Valid BIS Certificate for offered LED tiles/cabinets/product	
11	Exact offered model identifiable in BIS certificate	

ANNEXURE – 11

PROJECT IMPLEMENTATION, TESTING & TRAINING PLAN

Activity	Proposed Duration	Responsible Personnel	Remarks
Site verification / final survey			
Material procurement			
Delivery			
Installation			
Cable routing / cable management			
Integration / configuration			
Testing			
Commissioning			
User training			
Final handover			

ANNEXURE – 12

DETAILED TECHNICAL SPECIFICATIONS / SCHEDULE OF REQUIREMENTS

The following room-wise technical specifications, approved makes and quantities are incorporated from the attached technical specification. These requirements shall form an integral part of the tender. Bidders shall quote strictly in accordance with these specifications and submit item-wise technical compliance with exact offered specifications and OEM datasheet references.

ROOM MATRIX

Sl. No.	Room Type	Qty
1	280-seater Seminar Hall-1 – Recording and Streaming	1
2	280-seater Seminar Hall-2 – Local Presentation	1

A. SEMINAR HALL-1 (280 SEATER – RECORDING AND STREAMING)

Sl. No.	Item	Technical Specification	Approved Makes	Qty	Compliance (Yes/No)	Remarks
1	Integrated Fine Pixel Pitch Indoor Active LED Videowall COS 138"Diagonal Screen Size with Pixel Pitch of 1.59mm Including Wall mount	SITC of Integrated Indoor Active LED Videowall of minimum 1.59mm or lesser pixel pitch with built in controller, Android operating system of minimum 13.0 version or better, 8GB RAM and 64GB Storage, Optional OPS Slot for windows application,Wireless screen sharing and mirroring shall be supported through Miracast, AirPlay, or similar technologies. The Videowall shall include built-in speakers with a minimum output of 120W, wall mounting bracket and accessories. The Videowall shall have Coating on Surface(COS) LED technology to protect against physical damage with coating to create a waterproof barrier and prevent dust accumulation with a minimum 136-140-inch diagonal, preferred 16:9 aspect ratio, Full HD (1920 × 1080) native resolution, 800 nits or higher adjustable brightness with adaptive brightness sensor, minimum 10,000:1 contrast ratio, 160° horizontal and vertical viewing angle, 3840 Hz or higher refresh rate, and minimum 100,000 hours LED life, The videowall shall operate on 100-240V AC power input with Average power consumption of 0.45KW - 0.6KW and maximum power consumption should be 1.4KW - 1.6KW, Operating Temperature of -10°C ~ 40°C. The Videowall shall support front service maintenance, 24x7 operation application, Should support media formats such as MPEG-1,MPEG-2,MPEG4,H.263,H.264,H.265,VC-1,VP9,V P8,MVC,AV1; Support audio formats such as MP3; Support JPG, JPEG, BMP, PNG, GIF; Inputs of minimum HDMI x 4 and minimum HDMI output x 1; USB2.0 x 1, USB TypeC x 1, USB3.0 x 2; Audio input 3.5mm jack x 1, Audio output 3.5mm jack x 2; Control port RS232 protocol; Built in wifi, bluetooth and ethernet x 2 RJ45(10/100/1000M).	Delta / Samsung / LG	1		
2	65 inch 4K Professional Display with ceiling mount	SITC of 65-inch Professional UHD Commercial Digital Signage Display with minimum 65-inch IPS panel, 3840 × 2160 (4K UHD) resolution, minimum 350 nits brightness, 16x7 operation, 178° viewing angle, anti-glare surface, and landscape/portrait operation. The display shall feature an integrated Quad-Core SoC, minimum 8 GB internal storage, support USB media playback, HTML5, Office documents, remote content management, and firmware updates. Connectivity shall include 3 × HDMI, 2 × USB, RJ45, RS-232, IR In, and Audio Out. The display shall have 2 × 10 W built-in speakers, support Wake-on-LAN, HDMI-CEC, Auto Power Recovery, and be VESA mount compatible. The display shall operate on 100–240 VAC, 50/60 Hz, comply with BIS, CE, FCC, and RoHS, Including ceiling mount As per site condition	LG / Samsung / Sony	2		

3	Digital Podium with 21.5Inch touch panel and monitor	SITC of Interactive Digital Podium with a modern ergonomic design fabricated from powder-coated steel, aluminium and high-impact ABS or equivalent material, suitable for classrooms, lecture halls, auditoriums and conference rooms. The podium shall be provided with a minimum 21.5-inch Full HD (1920 × 1080) capacitive multi-touch display with at least 10-point touch capability, anti-glare surface, and a response time of 5 ms or better. It shall include an integrated gooseneck microphone with ON/OFF control, built-in power distribution unit, sliding work surface, lockable storage compartment, and cable management system. The podium shall provide connectivity through HDMI, USB, VGA, RJ45 Ethernet, audio input/output, and other standard presentation interfaces for seamless integration with AV systems. Including OPS-Intel i7 13th Gen, 512 SSD, 8GB RAM Windows 11PRO with office license. It shall be mounted on four heavy-duty caster wheels, with at least two lockable wheels for easy mobility and stable operation. The podium shall support connection to external displays, projectors, interactive panels and conferencing systems, and shall be supplied complete with all accessories required for installation, testing and commissioning. The offered product shall be from an established OEM with service support in India	Uni / eistouch / AHA	1		
4	4K 30X Ai Tracking camera with ceiling/Wall mount for presenter	SITC of AI based 4K @ 60fps Presenter PTZ Tracking Camera with Dual Camera- one PTZ Camera for Presenter Tracking and second fixed lens Panoramic Camera. PTZ Presenter Camera should support min 30X Zoom and 8x Digital Zoom with Panning range of +170 deg to - 170 deg and Tilt Range of -30 to +90 Degrees, Field of View for PTZ Camera should be min 58 Degree and for Panoramic Camera min. 85 Degree, camera should support simultaneous outputs through HDMI, 3G-SDI, USB 3.0 and IP with 1x Audio In and can be controlled via RS232 and IP. Should support multiple video streams with PIP. Tracking Camera should support Everywhere Tracking, Partition Tracking, Auto Framing & Gesture Control. Should support PoE+ and Virtual USB Driver. Camera can be controlled and managed through centralised software on network. Quoted model should be BIS, CE, FCC, Clickshare & RoHS Certified with Test Lab Reports. , Including Wall/ ceiling mount as per site condition	Lumens / Sony / Vaddio	1		
5	4K 30X PTZ camera with ceiling/Wall mount for Audience	SITC of AI based 4K @ 60fps PTZ Camera with Dual Camera- one PTZ Camera and second fixed lens Panoramic Camera. PTZ Presenter Camera should support min 30X Zoom and 8x Digital Zoom with Panning range of +170 deg to - 170 deg and Tilt Range of - 30 to +90 Degrees, Field of View for PTZ Camera should be min 58 Degree and for Panoramic Camera min. 85 Degree, camera should support simultaneous outputs through HDMI, 3G-SDI, USB 3.0 and IP with 1x Audio In and can be controlled via RS232 and IP. Should support multiple video streams with PIP. Camera can be controlled and managed through centralised software on network. Quoted model should be BIS, CE, FCC, Clickshare & RoHS Certified with Test Lab Reports. , Including Wall/ ceiling mount as per site condition	Lumens / Sony / Vaddio	2		
6	Recording and streaming device	SITC of Recording, Streaming & Webcasting Hardware simultaneously, Built-in 4x HDMI & IP Inputs with minimum 4x Line Inputs, 2x HDMI Outputs. The system should be capable to record upto any four inputs simultaneously in a single frame and as well as individual sources simultaneously. Should have minimum 1TB inbuilt storage and can be connected to local NAS storage. The system should be able to support minimum 3 unicast streams. The recorded files should have the option of time and date stamp. The device can be controlled and managed through centralised software on network. Quoted model should be CE, FCC & RoHS Certified with Test Lab Reports.	Lumens / Mediapointe / Mediasite / Vbrick	1		
7	Camera Joystick controller	SITC of Joystick with minimum 3" LCD for Preview Monitoring, PAN/Tilt/Zoom Control, Communication via IP & RS232C/RS455 Interfaces, Auto Backlit Keys, Should be able to control minimum 200 Cameras on IP & 10 Cameras through RS232/422, Should support VISCA, VISCA Over IP protocols & PoE. Quoted model should be CE, FCC & RoHS Certified with Test Lab Reports.	Lumens / Panasonic / Sony / Vaddio	1		
8	Wireless Handheld Microphone	SITC of All-in-one digital wireless handheld set Digital transmission operating in the UHF spectrum greatly enhances range, reliability and scalability, Smart Assist App connects via Bluetooth Low Energy for a streamlined setup and operation at a distance, Auto scan creates reliable connections with minimal time and effort, 134 dB audio input dynamic range eliminates need for sensitivity adjustments and preserves every detail, Elimination of	Sennheiser / Audio-Technica / Shure	3		

		intermodulation enables channels to be placed in an equidistant tuning grid 600 kHz apart, 56 MHz of tuning bandwidth and equidistant spacing enables up to 90 channels, 2,240 selectable frequencies allow for fine tuning, Latency (ms) 1.9 ms, Polar pattern - Cardioid, Sensitivity - 2.1 mV/Pa, Transducer principle - dynamic, Transducer type - Dynamic with necessary accessories				
9	Wireless Lavalier Microphone	SITC of All-in-one digital wireless lavalier set Digital transmission operating in the UHF spectrum greatly enhances range, reliability and scalability, Smart Assist App connects via Bluetooth Low Energy for a streamlined setup and operation at a distance, Auto scan creates reliable connections with minimal time and effort, 134 dB audio input dynamic range eliminates need for sensitivity adjustments and preserves every detail, Elimination of intermodulation enables channels to be placed in an equidistant tuning grid 600 kHz apart, 56 MHz of tuning bandwidth and equidistant spacing enables up to 90 channels, 2,240 selectable frequencies allow for fine tuning, Latency (ms) - 1.9 ms, Max. sound pressure level - 130 dB, Polar pattern - Omnidirectional, Sensitivity - 17 mV/Pa, Transducer principle - pre-polarized condenser microphone, Transducer type - Pre-polarised condenser, Connectors - 3.5mm with necessary accessories.	Sennheiser / Audio-Technica / Shure	1		
10	Active Antenna Splitter	SITC of Active Antenna Splitter with 2 x 1:4 or 1 x 1:8 active connections, which work on 56 MHz Bandwidth and allow for up to 90 channels, Supports Mobile App streamlines setup and operation and eliminates complicated menus, Frequency range: 470 – 694 MHz, along with Automated setup creates reliable connections with minimal time and effort.	Sennheiser / Audio-Technica / Shure	1		
11	Passive directional antenna with mounts fixtures and Passive antenna amplifier	SITC of Passive directional antenna, Built-in ½" and ¾" threads allow for easy mic stand mounting, Frequency range 470 – 1075 MHz, Apex angle (-3 dB) approx. 100°, Front-to-back ratio > 14 dB, Gain typ. 5 dBi and Impedance 50 Ω Including Swivel joint for aligning radiators , SITC of Mounting plate for antenna with 3/8" thread, Antenna can be attached directly or via swivel joint , Antenna booster which work on 56 MHz Bandwidth and allow for up to 90 channels, Supports Mobile App streamlines setup and operation and eliminates complicated menus, Frequency range: 470 – 694 MHz, along with Automated setup creates reliable connections with minimal time and effort	Sennheiser / Audio-Technica / Shure	2		
12	Battery charger for microphone	SITC of USB charger and rechargeable battery packs for use with Wireless Digital bodypack transmitter and handheld transmitter and handheld transmitter, Should be from the same OEM of microphone	Sennheiser / Audio-Technica / Shure	2		
13	15inch 1000W Loudspeaker	SITC of 15-inch Passive Two-Way Full-Range Loudspeaker comprising one 15-inch low-frequency driver and one high-frequency compression driver, capable of delivering a minimum 250 W continuous (500 W program, 1000 W peak) power handling with a nominal impedance of 8 Ω. The loudspeaker shall provide a frequency response of 46 Hz–20 kHz or better, a maximum SPL of 126 dB or higher, and a nominal coverage pattern of approximately 90° × 60°. The enclosure shall be constructed from durable plastic cabinet or equivalent, weight: approximately 17-18kg, provided with multiple rigging points, pole-mount socket, protective steel grille, and dual Speakon NL4 or equivalent connectors, Including wall mounts as per site condition	Tannoy / Yamaha /QSC	6		
14	800W 2-channel power amplifier	SITC of Professional 2-Channel Class-D Power Amplifier delivering a minimum output power of 2 × 800 W @ 8 Ω, 2 × 1050 W @ 4 Ω, and 2100 W @ 8 Ω in Bridge Mode. The amplifier shall feature a high-efficiency Class-D design with built-in 48 kHz/24-bit DSP with 6-band Parametric EQ, HPF, LPF, Delay, Limiter, Polarity, Input Routing, D-CONTOUR™, Speaker Presets. Frequency response: 20Hz - 20kHz ,Total Harmonic Distortion (THD+N): ≤0.1% (10 W, 1 kHz, 8 Ω); ≤0.3% at rated output, Signal-to-Noise Ratio: 101 dB (A-weighted), It shall provide balanced XLR and ¼-inch TRS inputs, Speakon NL4 and binding post outputs, a front-panel LCD display with rotary encoder for configuration, intelligent cooling with variable-speed fan, comprehensive protection against overload, short circuit, over-temperature and DC fault, and universal 100–240 VAC, 50/60 Hz operation. The amplifier shall be suitable for fixed installation and professional sound reinforcement applications and shall be supplied complete with all accessories required for installation, testing, and commissioning.	Labgruppen / Yamaha /QSC	3		
15	8in 4out Audio DSP with AEC and USB	Supply, Installation, Testing and Commissioning of Modular Digital Signal Processor with configurable I/O architecture supporting analog, digital and network audio expansion. The	Xilica / Biamp / QSC	1		

		processor shall support minimum 8 input and 4 output and Minimum 16 channels of Acoustic Echo Cancellation (AEC) Supported, automatic mixing, matrix mixing, equalization, filtering, crossover, feedback suppression, dynamics processing and delay functions. The DSP Should have minimum 1xUSB 2x2 audio interface for conferencing applications, and Ethernet port for configuration, monitoring and third-party control integration. The unit shall operate at a sampling rate of 48 kHz with 24-bit A/D and D/A converters, dynamic range of minimum 105 dB (unweighted), THD+N of 0.005% or better (22 Hz to 20 kHz), input-to-input crosstalk better than 100 dB, and provide +48 V phantom power on microphone inputs where applicable.				
16	8x8 4K HDMI Matrix switcher	SITC UHD 8x8 HDMI Matrix Switcher with Audio Output should support at least eight independent HDMI inputs and eight independent HDMI outputs with full matrix switching capability, capable of handling high-bandwidth video signals up to 18 Gbps (600 MHz) and resolutions up to 4K UHD at 60 Hz (4:4:4, 8-bit) or higher. It should comply with HDMI 2.0 / DVI 1.0 standards and support HDCP 2.x content protection. The unit must support a range of HDMI resolutions including UHD and HD formats and offer at least 16-bit Deep Color support up to 1080p@60 Hz with HDR compatibility. The system should include robust EDID management with internal and externally capturable EDIDs and allow user-configurable EDID settings to ensure source-display compatibility. The device should provide separate analog audio outputs (minimum eight channels, 3.5 mm unbalanced stereo) that can be paired with corresponding HDMI outputs and support pass-through of digital audio formats including LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream. Control and management interfaces should include at least front panel controls with LCD feedback, RS-232, TCP/IP (WebGUI/Telnet), and IR remote control or equivalent for remote operation and configuration, and be compliant with applicable CE and FCC certifications.	Cypress / Crestron / Extron	1		
17	HDMI HDBaseT extender 4K @ 40m	SITC of 4K HDMI HDBaseT Extender Kit (Transmitter & Receiver): The system shall comprise one transmitter and one receiver designed to extend HDMI signals over a single CAT5e/6 cable. The transmitter shall have minimum one HDMI input, one RS-232 port, one HDBaseT (RJ-45) output and IR output interface, while the receiver shall have minimum one HDMI output, one RS-232 port, one HDBaseT (RJ-45) input and IR input interface. The extender shall be compliant with HDMI 2.0 or higher and HDCP 2.2 or higher standards, supporting video resolutions up to 4K@60Hz (4:2:0 or better) with backward compatibility to Full HD formats. The system shall support transmission distance of minimum 40 meters at 4K resolution and minimum 70 meters at 1080p over CAT5e/6 cable. It shall support bi-directional IR and RS-232 pass-through along with CEC pass-through functionality for control signal extension. The extender shall support deep color processing of minimum 10-bit or higher and multi-channel embedded audio formats including LPCM, Dolby and DTS or equivalent. The system shall be suitable for professional AV applications and the product shall be CE and FCC certified.	Cypress / Crestron / Extron	7		
18	4K HDMI to USB3.0 Capture card	Supply of HDMI to USB 3.0 video converter. Supports up to 4K UHD (18Gbps, 4K@50/60Hz 4:4:4, 8-bit) video input and output. Simultaneously streaming the audio and video signal at 1080p to a USB connected PC for capture or re-broadcast. Automatically scales 4K sources to 1080p for USB capture. Video timing stabilization feature helps to ensure that the USB capture stream won't lock up or drop, even if the HDMI input source is intermittent or becomes disconnected. Digital stereo audio from either HDMI (LPCM 2.0) or the 3.5mm analog audio input will be captured with the HDMI video source and is selectable within the configuration software. Inputs 1x HDMI [1x Uncompressed AV and Data] 1x 3.5mm [1x Stereo(L/R)]. Outputs 1x HDMI [1x Uncompressed AV and Data]. 1x USB Type-B [1x Propriety Data]	Cypress / Crestron / Extron	1		
19	Button panel for recording control	SITC of remote control panel/ wall plate to control the live streaming, recording, and video file saving options. The panel should provide three macro functions that can remotely switch the scene and control the camera preset. The panel can be extended to 30 meters through a Cat 5e cable. It can be mounted on walls and furniture. Equipped with a USB port to record or backup video files and can be integrated with Media Processor	Lumens / Kramer / Extron	1		
20	24 port POE+ Network switch	SITC of a 24-Port Gigabit Ethernet PoE+ Network Switch suitable for professional IP-based AV and IT networking applications. The switch shall provide 24 x 10/100/1000 Mbps RJ45	Netgear / Cisco / TP-Link	1		

		ports with support for IEEE 802.3af and IEEE 802.3at PoE/PoE+ standards for powering IP devices such as cameras, PTZ cameras, wireless access points, IP phones, and other network endpoints, with a total PoE power budget of not less than 370W or higher. The switch shall support auto-negotiation and auto MDI/MDIX on all ports and shall provide wire-speed, non-blocking switching performance based on store-and-forward architecture for reliable data transmission. The unit shall be suitable for 24x7 continuous operation with built-in protection against overload, short circuit, and thermal conditions on PoE ports, housed in a rack-mountable metal enclosure compatible with standard 19-inch racks, and shall be supplied complete with all necessary accessories including power cord and rack mounting kit. The switch shall be suitable for IP-based AV, surveillance, and enterprise network environments.				
21	CAT6 Cable 305M	SITC of Category 6 UTP LAN Cable supplied in a 305-metre pull box, comprising 23 AWG solid bare copper conductors (4 twisted pairs), compliant with ANSI/TIA-568.2-D, ISO/IEC 11801 Class E, and IEC standards. The cable shall support data transmission speeds up to 1 Gbps at 100 m with a bandwidth of 250 MHz or higher, and shall feature LSZH or FRLS PVC jacket suitable for indoor structured cabling installations.	Belden /eiscoconnect / D-Link / Molex	1		
22	Audio Cable 100M	SITC of Professional Low-Noise Balanced Audio Cable supplied in a 100-metre roll, comprising 2-core stranded oxygen-free copper (OFC) conductors with an overall braided and/or foil shield for superior EMI/RFI rejection. The cable shall have a conductor size of 22–24 AWG or better, low capacitance suitable for microphone and line-level audio signal transmission, and a durable PVC or LSZH outer jacket for indoor professional AV installations	Belden / Finolex/ eiscoconnect / Polycab	1		
23	Speaker cable 305M	SITC of Professional Speaker Cable supplied in a 305-metre roll, comprising 2-core stranded oxygen-free copper (OFC) conductors with a minimum conductor size of 2 × 2.5 sq.mm (14 AWG) or better for low-loss audio signal transmission. The cable shall feature high flexibility, low conductor resistance, durable PVC or LSZH outer jacket, and be suitable for fixed installation of low-impedance and distributed sound reinforcement systems.	Belden / Finolex / eiscoconnect / Polycab	1		
24	HDMI Cable 1.8M	SITC of High-Speed HDMI Cable of 1.8 metres length, compliant with HDMI 2.0 or higher, supporting 4K UHD (3840 × 2160) resolution at 60 Hz, HDR, HDCP 2.2 or higher, and a minimum data bandwidth of 18 Gbps.	eiscoconnect/Aten/Kramer	15		
25	32U AV Rack	SITC of 32U Floor Standing AV Equipment Rack fabricated from heavy-duty CRCA steel with a minimum 19-inch EIA standard mounting profile, suitable for housing professional audio, video, networking and control equipment. The rack shall have a minimum usable height of 32U, lockable front toughened glass door, lockable rear steel door, removable side panels, adjustable mounting rails, ventilation slots with provision for roof-mounted cooling fans, cable entry from top and bottom, and a minimum static load capacity of 500 kg.	Valrack / Netrack / Equivalent	1		
26	Cables and Connectors	SITC of Patch cables and connectors RJ45, SpeakON, XLR, Mono etc as per site condition	Belden / MX / eiscoconnect / falcon	1		

B. SEMINAR HALL–2 (280 SEATER – LOCAL PRESENTATION)

Sl. No.	Item	Technical Specification	Approved Makes	Qty	Compliance (Yes/No)	Remarks
1	Integrated Fine Pixel Pitch Indoor Active LED Videowall COS 138"Diagonal Screen Size with Pixel Pitch of 1.59mm Including Wall mount	SITC of Integrated Indoor Active LED Videowall of minimum 1.59mm or lesser pixel pitch with built in controller, Android operating system of minimum 13.0 version or better, 8GB RAM and 64GB Storage, Optional OPS Slot for windows application,Wireless screen sharing and mirroring shall be supported through Miracast, AirPlay, or similar technologies. The Videowall shall include built-in speakers with a minimum output of 120W, wall mounting bracket and accessories. The Videowall shall have Coating on Surface(COS) LED technology to protect against physical damage with coating to create a waterproof barrier and prevent dust accumulation with a minimum 136-140-inch diagonal, preferred 16:9 aspect ratio, Full HD (1920 × 1080) native resolution, 800 nits or higher adjustable brightness with adaptive	Delta / Samsung / LG	1		

		brightness sensor, minimum 10,000:1 contrast ratio, 160° horizontal and vertical viewing angle, 3840 Hz or higher refresh rate, and minimum 100,000 hours LED life, The videowall shall operate on 100-240V AC power input with Average power consumption of 0.45KW - 0.6KW and maximum power consumption should be 1.4KW - 1.6KW, Operating Temperature of -10°C ~ 40°C. The Videowall shall support front service maintenance, 24x7 operation application, Should support media formats such as MPEG-1,MPEG-2,MPEG4,H.263,H.264,H.265,VC-1,VP9,V P8,MVC,AV1; Support audio formats such as MP3; Support JPG, JPEG, BMP, PNG, GIF; Inputs of minimum HDMI x 4 and minimum HDMI output x 1; USB2.0 x 1, USB TypeC x 1, USB3.0 x 2; Audio input 3.5mm jack x 1, Audio output 3.5mm jack x 2; Control port RS232 protocol; Built in wifi, bluetooth and ethernet x 2 RJ45(10/100/1000M).				
2	65 inch 4K Professional Display with ceiling mount	SITC of 65-inch Professional UHD Commercial Digital Signage Display with minimum 65-inch IPS panel, 3840 × 2160 (4K UHD) resolution, minimum 350 nits brightness, 16×7 operation, 178° viewing angle, anti-glare surface, and landscape/portrait operation. The display shall feature an integrated Quad-Core SoC, minimum 8 GB internal storage, support USB media playback, HTML5, Office documents, remote content management, and firmware updates. Connectivity shall include 3 × HDMI, 2 × USB, RJ45, RS-232, IR In, and Audio Out. The display shall have 2 × 10 W built-in speakers, support Wake-on-LAN, HDMI-CEC, Auto Power Recovery, and be VESA mount compatible. The display shall operate on 100–240 VAC, 50/60 Hz, comply with BIS, CE, FCC, and RoHS, Including ceiling mount As per site condition	LG / Samsung / Sony	2		
3	Digital Podium with 21.5Inch touch panel and monitor	SITC of Interactive Digital Podium with a modern ergonomic design fabricated from powder-coated steel, aluminium and high-impact ABS or equivalent material, suitable for classrooms, lecture halls, auditoriums and conference rooms. The podium shall be provided with a minimum 21.5-inch Full HD (1920 × 1080) capacitive multi-touch display with at least 10-point touch capability, anti-glare surface, and a response time of 5 ms or better. It shall include an integrated gooseneck microphone with ON/OFF control, built-in power distribution unit, sliding work surface, lockable storage compartment, and cable management system. The podium shall provide connectivity through HDMI, USB, VGA, RJ45 Ethernet, audio input/output, and other standard presentation interfaces for seamless integration with AV systems. Including OPS-Intel i7 13th Gen, 512 SSD, 8GB RAM Windows 11PRO.It shall be mounted on four heavy-duty caster wheels, with at least two lockable wheels for easy mobility and stable operation. The podium shall support connection to external displays, projectors, interactive panels and conferencing systems, and shall be supplied complete with all accessories required for installation, testing and commissioning. The offered product shall be from an established OEM with service support in India	Uni / eistouch / AHA	1		
4	Wireless Handheld Microphone	SITC of All-in-one digital wireless handheld set Digital transmission operating in the UHF spectrum greatly enhances range, reliability and scalability, Smart Assist App connects via Bluetooth Low Energy for a streamlined setup and operation at a distance, Auto scan creates reliable connections with minimal time and effort, 134 dB audio input dynamic range eliminates need for sensitivity adjustments and preserves every detail, Elimination of intermodulation enables channels to be placed in an equidistant tuning grid 600 kHz apart, 56 MHz of tuning bandwidth and equidistant spacing enables up to 90 channels, 2,240 selectable frequencies allow for fine tuning, Latency (ms) 1.9 ms, Polar pattern - Cardioid, Sensitivity - 2.1 mV/Pa, Transducer principle - dynamic, Transducer type - Dynamic with necessary accessories	Sennheiser / Audio-Technica / Shure	3		
5	Wireless Lavalier Microphone	SITC of All-in-one digital wireless lavalier set Digital transmission operating in the UHF spectrum greatly enhances range, reliability and scalability, Smart Assist App connects via Bluetooth Low Energy for a streamlined setup and operation at a distance, Auto scan creates reliable connections with minimal time and effort, 134 dB audio input dynamic range eliminates need for sensitivity adjustments and preserves every detail, Elimination of intermodulation enables channels to be placed in an equidistant tuning grid 600 kHz apart, 56 MHz of tuning bandwidth and equidistant spacing enables up to 90 channels, 2,240 selectable frequencies allow for fine tuning, Latency (ms) - 1.9 ms, Max. sound pressure level - 130 dB, Polar pattern - Omnidirectional, Sensitivity - 17 mV/Pa, Transducer principle - pre-polarized	Sennheiser / Audio-Technica / Shure	1		

		condensor microphone, Transducer type - Pre-polarised condenser, Connectors - 3.5mm with necessary accessories.				
6	Active Antenna Splitter	SITC of Active Antenna Splitter with 2 x 1:4 or 1 x 1:8 active connections, which work on 56 MHz Bandwidth and allow for up to 90 channels, Supports Mobile App streamlines setup and operation and eliminates complicated menus, Frequency range: 470 – 694 MHz, along with Automated setup creates reliable connections with minimal time and effort.	Sennheiser / Audio-Technica / Shure	1		
7	Passive directional antenna with mounts fixtures and Passive antenna amplifier	SITC of Passive directional antenna, Built-in ½" and ¾" threads allow for easy mic stand mounting, Frequency range 470 – 1075 MHz, Apex angle (-3 dB) approx. 100°, Front-to-back ratio > 14 dB, Gain typ. 5 dBi and Impedance 50 Ω Including Swivel joint for aligning radiators, SITC of Mounting plate for antenna with 3/8" thread, Antenna can be attached directly or via swivel joint, Antenna booster which work on 56 MHz Bandwidth and allow for up to 90 channels, Supports Mobile App streamlines setup and operation and eliminates complicated menus, Frequency range: 470 – 694 MHz, along with Automated setup creates reliable connections with minimal time and effort	Sennheiser / Audio-Technica / Shure	2		
8	Battery charger for microhpne	SITC of USB charger and rechargeable battery packs for use with Wireless Digital bodypack transmitter and handheld transmitter and handheld transmitter, Should be from the same OEM of microphone	Sennheiser / Audio-Technica / Shure	2		
9	15inch 1000W Loudspeaker	SITC of 15-inch Passive Two-Way Full-Range Loudspeaker comprising one 15-inch low-frequency driver and one high-frequency compression driver, capable of delivering a minimum 250 W continuous (500 W program, 1000 W peak) power handling with a nominal impedance of 8 Ω. The loudspeaker shall provide a frequency response of 46 Hz–20 kHz or better, a maximum SPL of 126 dB or higher, and a nominal coverage pattern of approximately 90° x 60°. The enclosure shall be constructed from durable plastic cabinet or equivalent, weight: approximately 17-18kg, provided with multiple rigging points, pole-mount socket, protective steel grille, and dual Speakon NL4 or equivalent connectors, Including wall mounts as per site condition	Tannoy / Yamaha /QSC	6		
10	800W 2-channel power amplifier	SITC of Professional 2-Channel Class-D Power Amplifier delivering a minimum output power of 2 x 800 W @ 8 Ω, 2 x 1050 W @ 4 Ω, and 2100 W @ 8 Ω in Bridge Mode. The amplifier shall feature a high-efficiency Class-D design with built-in 48 kHz/24-bit DSP with 6-band Parametric EQ, HPF, LPF, Delay, Limiter, Polarity, Input Routing, D-CONTOUR™, Speaker Presets. Frequency response: 20Hz - 20kHz, Total Harmonic Distortion (THD+N): ≤0.1% (10 W, 1 kHz, 8 Ω); ≤0.3% at rated output, Signal-to-Noise Ratio: 101 dB (A-weighted), It shall provide balanced XLR and ¼-inch TRS inputs, Speakon NL4 and binding post outputs, a front-panel LCD display with rotary encoder for configuration, intelligent cooling with variable-speed fan, comprehensive protection against overload, short circuit, over-temperature and DC fault, and universal 100–240 VAC, 50/60 Hz operation. The amplifier shall be suitable for fixed installation and professional sound reinforcement applications and shall be supplied complete with all accessories required for installation, testing, and commissioning.	Labgruppen / Yamaha /QSC	3		
11	8in 4out Audio DSP with AEC and USB	Supply, Installation, Testing and Commissioning of Modular Digital Signal Processor with configurable I/O architecture supporting analog, digital and network audio expansion. The processor shall support minimum 8 input and 4 output and Minimum 16 channels of Acoustic Echo Cancellation (AEC) Supported, automatic mixing, matrix mixing, equalization, filtering, crossover, feedback suppression, dynamics processing and delay functions. The DSP Should have minimum 1xUSB 2x2 audio interface for conferencing applications, and Ethernet port for configuration, monitoring and third-party control integration. The unit shall operate at a sampling rate of 48 kHz with 24-bit A/D and D/A converters, dynamic range of minimum 105 dB (unweighted), THD+N of 0.005% or better (22 Hz to 20 kHz), input-to-input crosstalk better than 100 dB, and provide +48 V phantom power on microphone inputs where applicable.	Xilica / Biamp / QSC	1		
12	4x4 4K HDMI Matrix switcher	SITC of UHD 4x4 HDMI Matrix Switcher with integrated audio de-embedding capable of routing any of the four HDMI inputs to any of the four HDMI outputs simultaneously with full non-blocking matrix switching. The switcher shall support HDMI 2.0 bandwidth up to 18 Gbps 600 MHz and video resolutions up to 4K UHD (3840x2160 / 4096x2160) at 60 Hz with 4:4:4 chroma sampling, along with HDR video formats and Deep Color up to 16-bit at 1080p@60Hz. The unit must be compliant with HDMI 2.0 / DVI 1.0 standards and support HDCP 2.2 / HDCP 1.x content protection for all inputs and outputs. The system shall include	Cypress / Crestron / Extron	1		

		advanced EDID management with multiple internal EDID tables, external EDID capture from connected displays, and user-selectable EDID assignment per input to ensure reliable interoperability between source devices and displays. The matrix shall provide dedicated analog stereo audio de-embedding outputs (minimum four, 3.5 mm unbalanced) associated with HDMI outputs, while simultaneously supporting pass-through of digital audio formats including LPCM up to 7.1 channels, Bitstream and HD Bitstream over HDMI outputs. The device shall provide multiple control and management interfaces including front panel push buttons with LCD/OSD status feedback, RS-232 serial control, TCP/IP control with WebGUI and Telnet support, and IR remote control, enabling integration with third-party control systems. The unit shall be designed for professional AV installations in metal rack-mountable enclosure, suitable for continuous operation and shall comply with CE and FCC certification standards				
13	HDMI HDBaseT extender 4K @ 40m	SITC of 4K HDMI HDBaseT Extender Kit (Transmitter & Receiver): The system shall comprise one transmitter and one receiver designed to extend HDMI signals over a single CAT5e/6 cable. The transmitter shall have minimum one HDMI input, one RS-232 port, one HDBaseT (RJ-45) output and IR output interface, while the receiver shall have minimum one HDMI output, one RS-232 port, one HDBaseT (RJ-45) input and IR input interface. The extender shall be compliant with HDMI 2.0 or higher and HDCP 2.2 or higher standards, supporting video resolutions up to 4K@60Hz (4:2:0 or better) with backward compatibility to Full HD formats. The system shall support transmission distance of minimum 40 meters at 4K resolution and minimum 70 meters at 1080p over CAT5e/6 cable. It shall support bi-directional IR and RS-232 pass-through along with CEC pass-through functionality for control signal extension. The extender shall support deep color processing of minimum 10-bit or higher and multi-channel embedded audio formats including LPCM, Dolby and DTS or equivalent. The system shall be suitable for professional AV applications and the product shall be CE and FCC certified.	Cypress / Crestron / Extron	4		
14	8 port POE+ Network switch	SITC of 8-Port Gigabit PoE+ Unmanaged Ethernet Switch complete with all accessories for installation and commissioning. The switch shall provide minimum 8 × 10/100/1000 Mbps RJ45 Gigabit Ethernet ports, all supporting IEEE 802.3af PoE and IEEE 802.3at PoE+, with a minimum total PoE power budget of 120 W (123 W or higher preferred) and up to 30 W per port.	Netgear / Cisco / TP-Link	1		
15	CAT6 Cable 305M	SITC of Category 6 UTP LAN Cable supplied in a 305-metre pull box, comprising 23 AWG solid bare copper conductors (4 twisted pairs), compliant with ANSI/TIA-568.2-D, ISO/IEC 11801 Class E, and IEC standards. The cable shall support data transmission speeds up to 1 Gbps at 100 m with a bandwidth of 250 MHz or higher, and shall feature LSZH or FRLS PVC jacket suitable for indoor structured cabling installations.	Belden /eisconnect / D-Link / Molex	1		
16	Audio Cable 100M	SITC of Professional Low-Noise Balanced Audio Cable supplied in a 100-metre roll, comprising 2-core stranded oxygen-free copper (OFC) conductors with an overall braided and/or foil shield for superior EMI/RFI rejection. The cable shall have a conductor size of 22–24 AWG or better, low capacitance suitable for microphone and line-level audio signal transmission, and a durable PVC or LSZH outer jacket for indoor professional AV installations	Belden / Finolex/ eisconnect / Polycab	1		
17	Speaker cable 305M	SITC of Professional Speaker Cable supplied in a 305-metre roll, comprising 2-core stranded oxygen-free copper (OFC) conductors with a minimum conductor size of 2 × 2.5 sq.mm (14 AWG) or better for low-loss audio signal transmission. The cable shall feature high flexibility, low conductor resistance, durable PVC or LSZH outer jacket, and be suitable for fixed installation of low-impedance and distributed sound reinforcement systems.	Belden / Finolex / eisconnect / Polycab	1		
18	HDMI Cable 1.8M	SITC of High-Speed HDMI Cable of 1.8 metres length, compliant with HDMI 2.0 or higher, supporting 4K UHD (3840 × 2160) resolution at 60 Hz, HDR, HDCP 2.2 or higher, and a minimum data bandwidth of 18 Gbps.	eisconnect/Aten/Kramer	10		
19	24U AV Rack	SITC of 24U Floor Standing AV Equipment Rack fabricated from heavy-duty CRCA steel with a minimum 19-inch EIA standard mounting profile, suitable for housing professional audio, video, networking and control equipment. The rack shall have a minimum usable height of 24U, lockable front toughened glass door, lockable rear steel door, removable side panels, adjustable mounting rails, ventilation slots with provision for roof-mounted cooling fans, cable entry from top and bottom, and a minimum static load capacity of 300 kg.	Valrack / Netrack / Equivalent	1		

20	Cables and Connectors	SITC of Patch cables and connectors RJ45, SpeakON, XLR, Mono etc as per site condition	Belden / MX / eiscoconnect / falcon	1		
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ANNEXURE – 13

FORMAT OF BID SECURITY DECLARATION FROM BIDDERS IN LIEU OF EMD

(On Company Letterhead)

I/We, the authorized signatory of M/s _____, participating in Tender/GeM Bid No. _____ for the work of Information and Communication Technology (ICT) / Audio-Visual Infrastructure for Seminar Hall–1 and Seminar Hall–2 at IIIT Dharwad, do hereby declare that in the event:

- I/We withdraw/modify our bid during the period of bid validity; OR
- I/We commit any other breach of tender conditions/contract which would have otherwise attracted forfeiture of EMD; OR
- I/We fail/refuse to initiate execution of the awarded contract as per the terms of the contract;

then I/We shall be liable for action as applicable under the GeM Incident Management Policy and the tender/contract conditions.

Signature and Seal of Authorized Signatory

Name: _____

Designation: _____

