



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

// CLARIFICATION //

Sub:- Publication of clarifications /reply of Pre-Bid meeting dated: 28th July, 2025 regarding tender for the “Supply & Installation of Hardware Articles for setup of Modern Class Room, lecture theatre technology Intervention room, e-Class room and cyber forensic laboratory / specialized centre at Madhya Pradesh State Judicial Academy, Jabalpur” with reference to tender no. Reg(IT)(SA)/2025/1149, Dated: 15.07.2025.

Ref: - Pre-Bid Meeting dated: 28th July, 2025 and tender no. Reg(IT)(SA)/2025/1149, Dated: 15.07.2025.

Reply / clarifications to the pre-bid queries

On the basis of queries submitted by the bidders, the reply /clarifications are enumerated as per details given below for reference and further necessary action at vendor side:-

Query No.	RFP Reference (Section No. /Page No.)	Content of RFP Requiring Clarification	Query of the bidder / remarks of the bidder	Reply / clarification to the query /remarks by the High Court
1. M/s Korex Tek Lab (LLP)				
1	“Specification – A” Modern Class Room (Dimension 30.8 ft. x 50 ft.)/Audio/ Page No. 32	Digital Amplifier, Podium Mike, One hand held mike, One/two collar mike, Gooseneck mike for every desk / table, 4 speakers (16 W)	1. BOQ and Quantity are missing for the Line items. 2. Detailed specifications of Individual Line items are missing. 3. Please consider HARMAN, OUTLINE as an approved make.	Already mentioned in this clarification.
2	“Specification – A” Modern Class Room (Dimension 30.8 ft. x 50 ft.) /Projection + Whiteboard / Page No. 32	98" screen, One 98" Smart Board, +3 HDMI enabled 4K HD LED Screens	1. Detailed specifications of Individual Line items are missing. 2. Specification & Sizing for Projector and Projection Screen is missing. 3. Please consider LG as an approved Make for Smart Display.	Already mentioned in this clarification.
3	“Specification – A” Modern Class	3 Camera, Two standard (Student),	1. Detailed specifications of Camera is missing.	(1) 2 cameras.



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

	Room (Dimension 30.8 ft. x 50 ft.) /Hybrid / Page No 32	One Standard (Teacher)	2. 3 Cameras have been asked, but given the size of the room 2 Cameras can suffice. Please clarify. 3. Please consider Data Video, Poly, Axis as an approved Make for Cameras.	
4	"Specification – A" Modern Class Room (Dimension 30.8 ft. x 50 ft.) /Digital Podium/ Page No 32	Yes	1. Detailed specifications of Digital Podium is missing. 2. Please consider ATDSC as an approved Make for Cameras.	Already mentioned in this clarification.
5	"Specification – A" Modern Class Room (Dimension 30.8 ft. x 50 ft.)/Wireless Presenter/Pointer / Page No. 32	Yes, 2.4 GHz wireless technology, covering minimum distance of 10m	1. Detailed specifications of Wireless Presentation is missing. 2. Please consider BARCO, WolfVision as an approved Make for Cameras.	Already mentioned in this clarification.
6	"Specification – A" Modern Class Room (Dimension 30.8 ft. x 50 ft.)/Ergonomic seating/ Page No. 32	For 50 participants.	1. Detailed specifications of Ergonomic Seating is missing. 2. Please suggest if Chairs and Tables both have to be considered. 3. Please suggest approved Makes.	Not required.
7	"Specification – A" Modern Class Room (Dimension 30.8 ft. x 50 ft.)/Display Screen / Page No. 32	55 inch 4K UHD Screen 02 qty.	1. Detailed specifications of Individual Line items are missing. 2. Please share the functional requirement of screens for connectivity. 3. Please consider LG as an approved Make for Smart Display.	Already mentioned in this clarification.
8	"Specification – A" Modern Class Room (Dimension 30.8 ft. x 50 ft.)/Interactive screen panel / Page No. 32	For flexible presentations.	1. Detailed specifications of Individual Line items are missing. 2. Please share the functional requirement of screens for connectivity.	Already mentioned in this clarification.



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

			3. Please suggest approved Makes.	
9	"Specification – A" Modern Class Room (Dimension 30.8 ft. x 50ft.) /Wireless presentation system / Page No. 32	For hassle-free connectivity.	1. Detailed specifications & Quantity of Wireless Presentation is missing. 2. Please consider BARCO, Wolf Vision as an approved Make for Cameras.	1.Already mentioned in this clarification. 2. All reputed brands and make may be considered.
10	"Specification–B" E-Class Room (Dimension 29.8 ft. x 48.6 ft.)/Audio / Page No 32	Digital Amplifier, Podium Mike, One hand held mike, One collar mike, speakers (16 W)	1. BOQ and Quantity are missing for the Line items. 2. Detailed specifications of Individual Line items are missing. 3. Please consider HARMAN, OUTLINE as an approved make.	Clarified in this clarification.
11	"Specification–B" E-Class Room (Dimension 29.8 ft. x 48.6 ft.)/ Projection + Whiteboard / Page No. 32	98" Smart Board + 2 HDMI enabled 4K HD LED Screen	1. Detailed specifications of Individual Line items are 2. Specification & Sizing for Projector and Projection 3. Please consider LG as an approved Make for Smart Display.	Clarified in this clarification.
12	"Specification– B" E-Class Room (Dimension 29.8 ft. x 48.6 ft.)/ Hybrid / Page No. 32	2 Camera, One Auto Zoom (Student), One Standard (Teacher)	1. Detailed specifications of Camera is missing. 2. 3 Cameras have been asked, but given the size of the room 2 Cameras can suffice. Please clarify. 3. Please consider Data Video, Poly, Axis as an approved Make for Cameras.	Clarified in this clarification. Yes; 02 cameras. All reputed make and model may be considered.
13	"Specification–B" E-Class Room (Dimension 29.8 ft. x 48.6 ft.)/ Computer Systems /Page No. 32	50 All-in-one computer system: Latest Generation, Intel Core-i7, 32 GB RAM, 1TB Hard Drive, SSD (NVMe)	1. Detailed specifications of All in One Computer System is missing. 2. Please consider HP/DELL as an approved Make	Clarified in this clarification. All reputed make shall be considered.
14	"Specification – B" E-Class Room (Dimension 29.8 ft.	2.4 GHz wireless technology, covering minimum	1. Detailed specifications of Wireless Presentation is missing.	Clarified in this clarification.



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

	x 48.6 ft.)/Wireless Presenter /Pointer / Page No. 32	distance of 10 m	2. Please consider BARCO, Wolf Vision as an approved Make	All reputed make and model may be considered.
15	“Specification–B” E-Class Room (Dimension 29.8 ft. x 48.6 ft.)/ Ceiling- mounted Speakers / Page No. 32	10 qty.	1. Detailed specifications of Speakers is missing. 2. Already this line items has been considered in “Specification– B” E-Class Room (Dimension 29.8 ft. x 48.6 ft.)/ Audio / Page No 32. Please clarify this need to be supplied.	Already clarified in this clarification.
16	“Specification–B” E-Class Room (Dimension 29.8 ft. x 48.6 ft.)/ Wireless Microphones / Page No. 33	2 Pocket Mic and 2 handheld mics for instructors and participants for Q&A	1. Detailed specifications of Wireless Mics is missing. 2. Please consider Sennheiser as an approved Make	Already clarified in this clarification.
17	“Specification – B” E-Class Room (Dimension 29.8 ft. x 48.6 ft.)/ BYOD bring your own device support with charging docks (USB-C/AC outlets per seat) or shared tablets for poll /quizzes / Page No. 33		1. Detailed specifications is missing. 2. Please consider BARCO as an approved Make	Already clarified in this clarification.
18	“Specification–B” E-Class Room (Dimension 29.8 ft. x 48.6 ft.)/High-speed Wi-Fi, ample electrical points, & structured cable management / Page No. 33		1. Detailed specifications is missing. 2. Detailed BOQ of Structured Cabling. 3. Please suggest approved Makes.	Already clarified in this clarification.
19	“Specification–B” E-Class Room (Dimension 29.8 ft.		1. Detailed specifications of Ergonomic Seating is missing. 2. Please suggest if Chairs	Deleted from line items.



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

	x 48.6 ft.)/ Modular seating for minimum 50+ participants with ergonomic spacing /Page No. 33		and Tables both have to be considered. 3. Please suggest approved Makes.	
20	“Specification–B” E-Class Room (Dimension 29.8 ft. x 48.6 ft.) / Sound proofing and LED optimized lighting for an Immersive learning experience / Page No. 33		1. Detailed specifications are missing. 2. Please define detailed scope of Work.	Clarified in this clarification.
21	“Specification–C” Interactive Debate & Conference Room (Dimension 30.6 ft. x 50.8 ft.)/ One Smart board /interactive panel with integrated sound system/ Page No. 33	98 inches approx. 01 qty.	1. Detailed specifications of Individual Line items are missing. 2. Specification & Sizing for Projector and Projection Screen is missing. 3. Please consider LG as an approved Make for Smart Display.	1. Clarified in this clarification. 2. Clarified in this clarification. 3. All reputed make and model may be considered.
22	“Specification–C” Interactive Debate & Conference Room (Dimension 30.6 ft. x 50.8 ft.)/ Live-streaming studio setup with 4K multicamera system /Page No. 33	for virtual proceedings	1. Detailed specifications of Individual Line items are missing. 2. Detailed BOQ of Live Streaming Studio like Green Screen, Studio Cameras, Studio Lighting etc. need to be shared.	1. Clarified in this clarification. 2. All reputed make and model may be considered.
23	“Specification–C” Interactive Debate & Conference Room (Dimension 30.6 ft. x 50.8 ft.)/ Voice-activated	For seamless documentation.	1. Detailed specifications of Individual Line items are missing. 2. Detailed BOQ need to be shared.	Clarified in this clarification.



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

	debate recording technology / Page No. 33			
24	"Specification-C" Interactive Debate & Conference Room (Dimension 30.6 ft. x 50.8 ft.)/ Ceiling-mounted Speakers / Page No. 33	10 qty.	1. Detailed specifications of Individual Line items are missing. 2. Detailed BOQ need to be shared.	Clarified in this clarification.
25	"Specification-C" Interactive Debate & Conference Room (Dimension 30.6 ft. x 50.8 ft.)/ Camera / Page No. 33	1 For Teacher 2 for Participants	1. Detailed specifications of Individual Line items are missing. 2. Detailed BOQ need to be shared.	Clarified in this clarification.
26	"Specification-C" Interactive Debate & Conference Room (Dimension 30.6 ft. x 50.8 ft.)/ Display Screen / Page No. 33	55 inch 02 qty. 4K UHD Screen with HDMI and USB C type display flexible presentations	1. Detailed specifications of Individual Line items are 2. Please share the functional requirement of screens for 3. Please consider LG as an approved Make for Smart Display.	Clarified in this clarification.
27	"Specification-C" Interactive Debate & Conference Room (Dimension 30.6 ft. x 50.8 ft.)/ Acoustic wall paneling and sound proof partitions / Page No. 33	For noise isolation.	1. Detailed specifications of Individual Line items are missing. 2. Detailed BOQ need to be shared.	Clarified in this clarification.
28	"Specification-C" Interactive Debate & Conference Room (Dimension 30.6 ft. x 50.8 ft.)/ Video Conferencing PTZ camera auto-	For instructor + wide angle for participants	1. Detailed specifications of Camera is Missing. 2. Soft or Hardware Based VC, please clarify. 3. Please consider Data Video, Poly, Axis as an approved Make for Cameras.	Clarified in this clarification.



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

	tacking camera / Page No 33			
29	“Specification–C” Interactive Debate & Conference Room (Dimension 30.6 ft. x 50.8 ft.)/ Wireless Microphones/ Page No. 33	2 Pockets Mic.	1. Detailed specifications of Wireless Mics is Missing. 2. Please consider Sennheiser as an approved Make.	Clarified in this clarification.
30	“Specification–D” Cyber Workstation for setup of forensic laboratory /specialized center / Page No. 34		1. Application of this Workstation. 2. Quantity of this Workstation. 3. Location this Workstation will be installed.	1. Forensic data analysis. 2. Initially 01 quantity may be increased depending upon the requirement. 3. At MPSJA, Jabalpur.

2. M/s VSN International Pvt. Ltd.

“SPECIFICATION –A” Modern Class Room (Dimension 30.8 ft. x 50 ft.)

1	Audio	Digital Amplifier, Podium Mike, One hand held mike, One/two collar mike, Gooseneck mike for every desk / table, 4 speakers (16 W)	Query: - Request you to confirm that 4x16W speakers are sufficient for 30.8 x 50 ft room. Current audio specification may not provide sufficient sound coverage and mic clarity across a large classroom. Revised configuration ensures better audio reach and flexibility. Also, clarify number of gooseneck mike required for desks/tables. There's mismatch in handheld, collar mike mentioned across S. No 1 and 10. Kindly confirm the quantity. We would request to kindly amend the clause to:- "Digital Podium with gooseneck mike, DSP with amplifier, Wall Mount Speakers: 50W x4 or 30W x6	Clarified in this clarification.
---	-------	--	---	-------------------------------------



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

			ceiling speakers with amplifier, plus UHF receiver with collar /headband /handheld mike."	
2	Projection + Whiteboard	98" screen, One 98" Smart Board, +3 HDMI enabled 4K HD LED Screens	Query:- You have mentioned, 98" screen, 98" smart board. Kindly confirm the purpose and sizes of the 3 additional 4K displays: side/delay view or extended display. Clear display zoning is critical for effective teaching; clarification ensures layout and display purposes are understood. We would request to kindly amend the clause to: "98" screen, One 98" Smart Board, +2 55" displays for side/delay".	Yes 86" smart board and two UHD 4K display panels of 55". (Details mentioned in this clarification).
3	Hybrid	3 Camera, Two standard(Student), One Standard (Teacher)	Kindly confirm if video mixer/switch is needed for multiple cameras. To ensure seamless video transitions and proper AV output, a mixer /multiviewer is necessary when using multiple camera feeds. Request for Amendment: Tracking Cameras: 1x Teacher & 2x Participants + Mixer /Multiviewer.	Yes.
4	Presenter Remote	01 qty.	We would request to kindly clarify required functionality for remote. Justification: - Defining the specific remote functions (slide navigation, laser pointer, etc.) will ensure the right equipment is proposed.	Clarified in this clarification.
5	Wireless Microphones	2 Pocket Mic and 2 handheld mics for instructors and participants for Q&A	Query:- Kindly clarify how many microphones needed (discrepancy with S. No. 1) Request for Change:- 2x Headband/Lapel Mic + 2x	Clarified in this clarification.



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

			Handheld Mic.	
“SPECIFICATION – B” E-Class Room (Dimension 29.8 ft. x 48.6 ft.)				
1	Audio	Digital Amplifier, Podium Mike, One hand held mike, One collar mike, 2 speakers (16 W)	<p>Query:- Please clarify: 10 ceiling-mounted speakers are mentioned in S.No. 6, but here, only 2 speakers (16W) are specified. Kindly confirm the actual quantity and wattage required.</p> <p>Justification:- Conflicting quantities across items must be clarified to avoid ambiguity in implementation.</p>	Clarified in this clarification.
2	Computer Systems	50 All-in-one computer system: Latest Generation, Intel Core-i7, 32 GB RAM, 1TB Hard Drive, SSD (NVMe)	<p>Query:- Kindly confirm if 50 All-in-One PCs are required for students.</p>	For participants it may be required.
3	Ceiling-mounted Speakers	10 qty.	<p>Query:- Kindly confirm that the required wattage per speaker for given room size. Correct wattage ensures sound coverage for classroom size and avoids underpowered audio output.</p> <p>Request for Change: Wall Mount Speakers: 50Wx4 or 30Wx6 ceiling speakers with amplifier.</p>	Already clarified in this document.
4	Presenter Remote	01 qty.	<p>Query: Kindly clarify functionality needed in remote</p>	Clarified in this clarification.
5	Podium Mic	01 qty.	<p>Query: Podium mic considered, but podium not included in BOM</p> <p>Request for Amendment:- Kindly amend the clause to "Digital Podium with gooseneck Microphone."</p>	Clarified in this clarification.
6	Wireless Microphones	Pocket Mic and 2 handheld mics for instructors and participants for	<p>Query:- Clarify number of microphones needed</p> <p>Request for Amendment:- "1x Headband/Lapel Mic + 1x</p>	Clarified in this clarification.



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

		Q&A	Handheld Mic".	
7	Participants interaction BYOD bring your own device support with charging docks (USB-C/AC outlets per seat) or shared tablets for poll/quizzes		Query:- Kindly confirm if BYOD is part of BOM or included in All-in-One PC.	Yes.
8	Collaboration tools wireless sharing system like Kramer VIA, Barco, for participants /instructor to share content from laptop/phones		Query:- Clarify if wireless presentation system is required Request for Amendment:- Wireless presentation system with additional dongles	Yes.
"SPECIFICATION –C" Interactive Debate & Conference Room (Dimension 30.6 ft. x 50.8 ft.)				
1	Voice-activated debate recording technology	For seamless documentation.	Request clarification on: 1) Whether specific software or hardware is expected by Hon'ble High Court. 2) Kindly provide the required language support & storage specs.	Hindi & English.
2	Ceiling-mounted Speakers	10 qty.	Kindly confirm the required wattage per ceiling speaker (e.g., 10W, 30W, 50W RMS) for the room size 30.6 ft x 50.8 ft, and advice if external amplifiers are recommended for optimal sound distribution and clarity. Wattage affects room coverage; amplified sound ensures clarity across large conference areas. Request for amendment:- Wall Mount Speakers: 50W x4 or 30W x6 ceiling speakers with amplifier	Already clarified in this document.
3	Camera	1 for Teacher 2 for Participants	Query:- Kindly confirm need for video mixer/switch for	Yes. Already clarified



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

			multiple cameras Request for Amendment:- Tracking Cameras: 1x Teacher & 2x Participants + Mixer /Multiviewer. Justification:- Required for smooth transitions and accurate auto-tracking during hybrid sessions.	in this document.
4	Presenter Remote	01 qty.	Query:- Please clarify the intended functionality for the presenter remote	Already clarified in this document.
5	Acoustic wall paneling and soundproof partitions	For noise isolation.	Query:- Please confirm that acoustic wall paneling and soundproof partitions are not part of our scope, as per our understanding. Kindly confirm if this will be handled by the civil/infra team or another agency. Excluded (Partner/Infra scope)	Already clarified in this document.
6	Video Conferencing PTZ camera auto- tracking camera	For instructor + wide angle for participants	Query:- Please clarify for this camera in S.No. 5 Cameras involved is this required additional? Already covered under S.No. 5	Already clarified in this document.
7	Wireless Microphones	2 Pockets Mic.	Kindly Clarify required Collar/Headband mics.	Already clarified in this document.
8	Mike	Each table has 1 mike (wireless supported) at center Approx. 20 qty.	Query:- Please confirm if 20 wireless mics are to be handheld (one per table) and if a DSP is required for audio processing and microphone management. We would request to kindly amend the clause to "Min 4x Ceiling mics + 2 Handheld + DSP with USB for 2-way VC" .	Already clarified in this document.
"SPECIFICATION – D" Cyber Workstation for setup of forensic laboratory /specialized center				
1	Front Mounted Drive Bays	Optical Disk Drive - 1x DVD Burner Drive 2 x	We would request to kindly remove 3 x Hot Swap SAS/SATA 3.5" Bays from	Yes.



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

		SATA SSD for OS & Cache drives 1 x SATA for Data Drive; 3 x Hot Swap SAS/SATA 3.5" Bays.	the specifications. As per Microsoft's standard OS installation guidelines, the operating system is recommended to be installed only on SSD drives for optimal performance and compliance. The provided specification already includes 2 x SATA SSDs for OS and cache, and 1 x SATA for data storage. Therefore, we request you to, as it appears redundant and may lead to increased cost and complexity without adding significant functional benefit to the solution.	
3. M/s Sempersol Consultancy (P) Ltd.				
1	3.14	The firms registered under NSIC and MSME (The vendor to be registered with both NSIC and MSME for claiming exemption of tender fees) are exempted for submission of tender fees only. But they have to submit valid EMD as per the tender requirement	You are requested to consider extending the exemption of Tender Fee and EMD to MSME units registered under the Government of Madhya Pradesh as well. MP MSMEs are recognized under the MSMED Act and contribute significantly to local industrial and economic development. Granting such exemptions will promote broader participation and support the state's MSME ecosystem in alignment with the objectives of the Government's MSME promotion policies.	No change.
4. M/s Veltronics India Pvt. Ltd.				
1		Removal of "Land and Border" Clause	We request the removal of the "Land and Border" clause for AIOs, PCs, and Workstations. Retaining this clause would restrict participation to only two OEMs, thereby limiting healthy competition and potentially affecting pricing.	Quote as per the tender document.



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

2		Provision of Detailed Bill of Material (BoM)	We request you to kindly provide a comprehensive Bill of Material along with the technical specifications for all items. This will ensure uniform interpretation and accurate bidding by all participants.	Already clarified in this document.
3		Recommendation for Mini PCs with 20" Display	Considering the requirement of 100 chairs and 100 tables for two rooms, and the constraint that each display must fit below a glass tabletop, we propose the use of Mini PCs with 20" displays. This configuration is practical and space-efficient. We have enclosed the catalogue of Lenovo Mini PCs, which are also available from HP and Dell.	Already clarified in this document.
4		Budgetary Consideration	Based on the proposed solution and infrastructure, we suggest that the total budget for this project be approximately ₹2.75-3.00 Crores.	The estimated cost has been increased to Rs. 1.50 Crore.
"SPECIFICATION – D" Cyber Workstation for setup of forensic laboratory / specialized center.				
5	Graphic Card	RTX 3060, 3584 Cuda Cores, 12 GB GDDR6	NVIDIA® GeForce RTX™ 5070 12GB GDDR7.	RTX 3060, 3584 Cuda Cores, 12 GB GDDR6 / NVIDIA® GeForce RTX™ 5070 12GB GDDR7. The bidder can quote higher or better specifications.
6	Optical Drive	DVD Burner Drive.	Kindly remove it, as it is obsolete or external third party.	Yes removed.
7	Network Adapter	Intel® Dual Intel 10Gb Ethernet &	Gigabit Ethernet, Realtek® RTL8168H, 1x RJ-45, PCIe®	Intel® Dual Intel 10Gb Ethernet &



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

		Realtek 1GB Ethernet.	x1.	Realtek 1GB Ethernet / Gigabit Ethernet, Realtek® RTL8168H, 1xRJ-45, PCIe®x1. The bidder can quote higher or better specifications.
8	Power Supply	1300W 80 Plus Gold Certified; Fully Modular Power Supply.	1400W Fixed 92% Autosensing, 80 PLUS Platinum qualified.	No change.
9	Audio	7.1 HD Audio with optical S/PDIF.	2x Audio ports (line-out and line-in).	Quote as per the tender document.

5. M/s ViewSonic Technologies (India) Pvt. Ltd.

1	“Specification–A” Modern Class Room (Dimension 30.8 ft. x 50 ft.)	98-inch Interactive Display	<p>The currently specified 98-inch Interactive Display, while large and suitable for presentations, does not optimally fit the teaching dynamics and physical layout of the classroom.</p> <p>In light of these findings, it is advisable to revise the specification to an Ultra-Wide Interactive Display with 21:9 aspect ratio, preferably within the size range that aligns with the whiteboard dimensions already in use. This adjustment will facilitate a more natural and efficient teaching experience and better accommodate classroom geometry.</p>	86” or above. (Specifications already mentioned in this document).
2		Existing whiteboard dimensions	The existing whiteboard dimensions—approximately 7.2 ft x 3.2 ft and 8.25 ft x 3.75 ft—suggest a clear preference and practical benefit from Ultra-Wide 21:9 Aspect Ratio Displays, which:	The vendor can quote higher / better specifications.



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

			<ol style="list-style-type: none">1. Match the visual spread and format that educators are accustomed to.2. Provide enhanced visibility across the wider classroom layout.3. Ensure ergonomically suitable viewing and interaction height for instructors. <p>We recommend Department Kindly make amendments to 92 Inch or Above to have appropriate size of existing White Board of Size, with ease of teaching & presentation with ultra-wide 21:9 Aspect Ratio of with 92 Inch Display having 7.2 Feet x 3.2 Feet Size Suitable to your Modern Classrooms.</p>	
--	--	--	---	--

6. M/s Atishay

1	2.15.2 (ii) Page no. 10	Experience in Supply and installation of Computers Hardware Articles/ Display Boards /Interactive Panels and other related IT Equipment's. during last 05 years ending last day of month previous to the month of publication of this tender, should be either of the following:- (a) Three similar completed work costing not less than the amount equal to 40% of the	Request you to kindly consider the experience criteria of both Bidder /OEM.	Quote as per the tender document.
---	----------------------------	--	---	-----------------------------------



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

		<p>estimated cost. OR (b) Two similar completed work costing not less than the amount equal to 50% of the estimated cost.OR (c) One similar completed work costing not less than the amount equal to 80% of the estimated cost. Similar works means: Supply and installation of Computers Hardware Articles /Display Boards /Interactive Panels and other related IT Equipments.</p>		
--	--	---	--	--

The details of the Hardware articles required along with technical specifications are enumerated as under:-

S. N.	Articles	Proposed Specifications	Specific ation “A”	Specific ation “B”	Specific ation “C”	Total Qty.
Audio (As per requirement of room size)						
1	DSP of make like BiAmp, BSS, Bose or Better or Equivalent Reputed Makes	Digital Signal Processor with 12 Analog Inputs (with 48v Phantom Power per Channel), 8 Analog Outputs, Open Architecture Configurable Signal Processing, Freely Assignable Acoustic Echo Cancellation for up to 12 inputs, Rich Palette of Processing and Logic Objects, 48 Channel Digital Audio Connectivity, Clear Front Panel LED Indication, Bi-Directional Locate Functionality, 12 Control Inputs and 6 Logic Outputs for GPIO Integration.	1	1	1	3
2	USB Bridge of make like Audient, MOTU, RME	Compact desktop USB audio interface with 2 analog mic/line combo inputs supporting 48V phantom power and 2 balanced line outputs. Device shall support 24-bit/96kHz	1	1	1	3



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

	Better or Equivalent Reputed Makes	audio resolution with ultra-low latency performance. Must feature Smart gain auto-leveling technology and direct monitoring for real-time input monitoring. Unit shall include a stereo headphone output with independent volume control, and LED-based metering for input/output levels. Interface shall be USB 2.0 bus-powered and compatible with Windows, Mac OS without proprietary drivers.				
3	Amplifier of make like Crown, Powersoft, Bose or Better or Equivalent Reputed Makes	4-channel digital power amplifier with 600W or better or above @ 4Ω/8Ω. Frequency response: 20Hz–20kHz (±0.25 dB), THD: ≤0.35%. Damping factor >1000, supports stereo/bridge modes, with onboard DSP including EQ, delay, crossover and limiters. Ethernet for control & monitoring with 48 Channel Digital Audio Connectivity.	1	1	1	3
4	Speaker of make like Bose, JBL, Renkus-Heinz or Better or Equivalent Reputed Makes	Passive column line array loudspeaker with 16 × 2" full-range drivers in straight-line configuration. Frequency Response (±3 dB): 100Hz - 20kHz, Horizontal coverage: 150° nominal. Power handling (continuous): 300W (1300W peak) or better, Maximum SPL (continuous): 118 dB or better Shall include a 70V/100V transformer with taps at 60W, 30W & 15W, The enclosure shall be reinforced ABS cabinet, and supplied with wall-mounting hardware.	4	4	4	12
5	Microphone (Wireless Presenter Set) of make like Shure, Sennheiser, AKG or Better or Equivalent Reputed Makes	Digital wireless microphone system comprising a bodypack transmitter with omnidirectional lavalier microphone and a digital wireless receiver. System shall operate in the UHF spectrum (450–910 MHz), with transmission range up to 100 meters (line of sight). Audio frequency response shall be 20 Hz to 20 kHz, with latency ≤1.9 ms and dynamic range ≥134 dB (A-weighted). Receiver shall support auto frequency coordination, Bluetooth app-based control, and provide balanced XLR and ¼" outputs. Transmitter shall be compact, belt-mountable, powered via AA batteries or rechargeable pack.	1	1	1	3
6	Microphone (Wireless Handheld) of make like	Digital wireless microphone system comprising a handheld transmitter with dynamic cardioid capsule, and a digital wireless receiver. System shall operate in	1	1	1	3



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

	Shure, Sennheiser, AKG or better or Equivalent Reputed Makes	UHF spectrum (450–910 MHz), with a transmission range of up to 100 meters (line of sight). Audio frequency response shall be 20 Hz to 20 kHz, with latency ≤ 1.9 ms and 134 dB dynamic range (A-weighted). Transmitter shall include a mute switch and shall operate on AA batteries or rechargeable battery pack. Receiver shall support automatic frequency coordination, Bluetooth app-based control, and have balanced XLR and $\frac{1}{4}$ " outputs.				
7	Microphone (Wired Gooseneck) for Podium & Tabletop of make like Shure, Sennheiser, AKG or Better or Equivalent Reputed Makes	Professional gooseneck microphone system comprising a 40 cm or longer cardioid condenser microphone with RF shielding, paired with a base/stable table stand featuring an integrated programmable push-button. The microphone shall offer a frequency response of 50Hz to 20kHz, operate on 12–48 V phantom power, and use a 3-pin XLR connection. The base/stand shall support mounting on podium (1) & (2) Microphone for table top programmable button functions including push-to-talk, push-to-mute, toggle, and always-on modes, and shall include a bi-color LED ring for status indication. The base/table stand shall also offer logic outputs for remote control functions and accept microphones with standard 3-pin XLR connectors.	3	3	3	9
Display						
8	Interactive Touch Display of make like LG, Samsung, Sony, Panasonic, BenQ, ViewSonic or Better or Equivalent Reputed Makes	86" UHD Multi Touch Interactive Display with necessary Mounting Bracket; Native Resolution: 3840 x 2160 (UHD); Brightness should be minimum 440cd/m ² with Interactive and protection Glass; Viewing Angle(H x V): 178 x 178; Input Ports: HDMI-3,USB(3.0)-3,USB-(2,0)-2,USB(C Type-1), OPS Slot-1,RS232-1, LAN-1 or Higher; Min Output Ports: Audio-1 & HDMI-1; Touch Accuracy: ± 1 mm or less; Response Time: ≤ 5 ms or better; Minimum 3T (Anti-Glare) or Higher as per OEM standard; Android 13 or Better; Minimum Internal Memory (64GB), Quad core A55, GPU-Mali G52MP2, RAM DDR 8GB or higher; Interactive features like Writing, Pen, Palm Erase, Screen Capture, Storage,	1	1	1	3



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

		Tool Bar, USB Block feature for safety, Dual Pen support. India Factory Certification ISO-9001:2015, BIS registered and RoHS Complied.				
9	Display Panel of make like LG, Samsung, Sony or Better or Equivalent Reputed Makes	55" UHD Display Panel with necessary Mounting Bracket; Native Resolution: 3840 x 2160 (UHD); Brightness should be minimum 400 Nits; HDR_HDR 10 Pro; Contrast Ratio: 1300:1; HDMI2.0 (3); Headphone out; AV IN; USB2.0; RF IN; Smart Share; Bluetooth, BIS certificate for Display Unit as per guideline, ISO-9001:2015.	2	2	2	6
Capture, Recording & Streaming						
10	Recording Camera of make like Poly, Cisco, Data Video, Panasonic, Axis or Better or Equivalent Reputed Makes	Professional-grade Auto-tracking PTZ camera with 1/2.5" CMOS sensor and support for Ultra HD 4K resolution at 60fps. Camera shall offer 20x optical zoom and up to 16x digital zoom, with horizontal viewing angle up to 60°. Outputs shall include HDMI 2.0 or USB, 3G-SDI, and IP streaming via RTSP/RTMP/SRT protocols. The unit shall support simultaneous video output over all interfaces and provide PoE+ for single-cable power, control, and video. Pan range shall be ±170°, tilt range -30° to +90°, with preset memory function (minimum 255 positions). The camera shall support VISCA, Pelco-D/P and ONVIF control over serial and IP.	2	2	2	6
11	Document Visualizer of make like AVER, VADDIO, WolfVision or Better or Equivalent Reputed Makes	Desktop visualizer with native 4K UHD output (3840×2160, 4:4:4) at 30 fps and support for 1080p Full HD at 60 fps. The unit shall feature a 1/2.8" CMOS image sensor, 12x zoom (6x optical + 2x digital). Focus, brightness, white balance, and color settings shall be automatically or manually adjustable. Device shall include a built-in 3.5" touchscreen LCD (320×240 px) for preview and control, with support for image freeze, side-by-side comparison, and on-screen menu access. Pickup area shall be up to 300 × 497 mm (max), with depth of focus up to 120 mm, and glare-free LED lighting requiring no adjustment. The system shall support HDMI input and output with 4K30 pass through and internal signal scaling. Includes 8 GB internal memory,	0	1	0	1



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

		support for external USB storage, and video recording at 1080p 30 fps. LAN streaming with audio shall be supported in RTP (H.264 and MJPEG) formats. Shall offer USB 3.0 device, USB 2.0 host, and LAN port, with support for UVC, PTP, and remote control via native app. Includes Kensington® lock and table lock bolt.				
12	Wireless Presentation System of make like Barco, WofVision, Crestron or Better or Equivalent Reputed Makes	Wireless presentation system with 4K UHD output resolution via HDMI and allow content sharing from laptops (Windows /macOS) and mobile devices (iOS /Android) using a USB-C/USB-A Dongle or native protocols like AirPlay, Google Cast, and Miracast. It shall support single-screen presentation with up to 2 users on screen simultaneously and enable presenter handover. The device shall offer enterprise-grade security, WPA2-PSK encryption, configurable access modes, and automatic firmware updates. Shall include one USB Dongle, with additional support for software-based sharing via native App. Connectivity: 1x HDMI out, 1x USB-A, 1x USB-C, 1x Ethernet LAN, built-in Wi-Fi (2.4 GHz & 5 GHz).	1	1	1	3
13	Streaming & Recording of make like AREC, WolfVision, DataVideo or Better or Equivalent Reputed Makes	Standalone media recording and streaming device capable of capturing, recording, and streaming multiple high-resolution sources simultaneously. The system shall support up to 4x4K UHD input sources and output at 4K/UHD 60fps resolution via HDMI and network. It shall record content in MP4 format with support for H.264 and H.265 video compression standards. System shall provide simultaneous recording and streaming with support for RTMP, RTSP, and MPEG-TS protocols, allowing concurrent output to multiple streaming platforms or servers. Shall include 2TB or better storage capacity either internally or using external SSD through SUB connectivity, expandable via network drives (SMB/NFS). It shall support live annotation, content playback, and scheduled or manual recording. Device shall feature a web-based GUI for setup and control, support LDAP/Active Directory authentication, and	1	1	1	3



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

		provide dual Gigabit LAN ports for isolated streaming/control networks. Integration via REST API or AV control protocols shall be supported.				
Switching & Control System						
14	HDMI Switcher of make like Extron, AMX, Crestron, Matrox or Better or Equivalent Reputed Makes	4x4 HDMI matrix switcher supporting full cross-point routing of any 4 HDMI inputs to any 4 HDMI outputs simultaneously. Video Resolution: Up to 4K@60Hz (4:4:4); HDMI Version: 2.0b or better; DCP Version: 2.2 compliant on all inputs and outputs; Audio Management: Independent audio switching and HDMI audio de-embedding per output; EDID Handling: EDID capture and emulation per input; Switching Time: Fast switching architecture with <1 second transition time between sources; Control Interfaces: Support for TCP/IP, RS-232, and front-panel control, with integrated web-based GUI; Status Display: Front panel with OLED screen and individual source/output selection buttons; Diagnostics: Built-in signal presence detection and real-time switching feedback; Rack-mountable, with removable rack ears included.	1	1	1	3
15	Windowing Processor of make like Extron, AMX, Crestron, Matrox or Better or Equivalent or Equivalent Reputed Makes	4K@60 HDMI Windowing Processor with 4 HDMI inputs and 2 HDMI Outputs, Up to four simultaneous, freely scalable windows can be processed using 4x1 multi-windowing mode and can be used as a 4x2 matrix switcher, Video Resolution Support up to 4096 x 2160@ 60 Hz, Audio de-embedding for both outputs, Support for HDR10, HDCP 2.2 Compliant, Open API Control over IP and Serial, full Web GUI console, and front panel buttons.	1	1	1	3
16	Switching of make like Extron, AMX, Crestron, Matrox or Better or Equivalent Reputed Makes	HDMI to USB capture device capable of converting up to 4K60 (4:4:4) HDMI signals to USB 3.0 UVC format for integration with soft codec applications such as Zoom, Teams, or Webex. Device shall provide HDMI 2.0 input and support resolutions up to 3840x2160 @ 60 Hz, with downscaling to 1080p or lower via USB. Shall comply with UVC 1.1 and UAC 1.0, allowing driverless operation with Windows, macOS, and Linux platforms. Audio from the HDMI	1	1	1	3



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

		input shall be embedded and transmitted over USB as a standard UAC signal. The device shall support plug-and-play operation, with no external power supply required.				
17	Podium C Type + Switching (for display) of make like Extron, AMX, Crestron, Matrox or Better or Equivalent Reputed Makes	3×1 Switching and Transport Wall plate Kit comprising a wall-mounted 3×1 input module (2× HDMI, 1× USB-C) and a remote receiver unit. The system shall support 4K@60Hz (4:2:0) video resolution, with uncompressed signal transport over a single Cat6/6A/7 cable for up to 40 m at 4K and 70 m at 1080p. The switcher shall support both automatic and manual input switching. USB-C input shall support Display Port Alt Mode video. Receiver shall provide HDMI output, USB-A device port, RS-232, IR input, relay control, remote mute, and support for HDCP 2.2, EDID management, and CEC pass-through. The system shall support control and configuration via web-based GUI, TCP/IP, RS-232, and Telnet/SSH. USB extension shall support USB 2.0 up to 220 Mbps for interactive displays and peripherals. The system shall be powered using a 24V DC external power supply and support Power-over-Cable (PoC) to power the wall plate module.	1	1	1	3
18	Control Touch Panel of make like Extron, AMX, Crestron, Matrox or Better or Equivalent Reputed Makes	10.1" high-resolution touch panel for room control and user interface applications. The panel shall feature a 1280×800 IPS display with capacitive multi-touch support, integrated processing, and network connectivity over Gigabit Ethernet. Shall support PoE/PoE+ power, eliminating the need for external power adapters. The unit shall run a secure, hardened Linux-based OS and support HTML5 web-based UI rendering for custom GUI deployment. Panel shall include proximity and ambient light sensors for automatic wake/sleep and brightness adjustment, and an LED bar with customizable feedback indicators. Mounting shall be possible on-wall, tabletop, or with VESA compatibility using optional accessories. Connectivity shall include 1x Ethernet (RJ45), 2x USB-C (service +	1	1	1	3



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

		expansion) and 1x micro SD slot. Shall support remote management and firmware updates via the control platform.				
19	Control Keypad of make like Extron, AMX, Crestron, Matrox or Better or Equivalent Reputed Makes	13-Button Ethernet Keypad featuring 13 push-buttons (12 single-width + 1 double-width bottom button) with blue LED indicators for active status. Bottom button shall be programmable as one or two independent functions. Shall communicate via 10/100 Mbps Ethernet and be powered via PoE, without requiring an external power adapter. Supports daisy-chain connection of up to three keypads on a single IP address.	1	1	1	3
20	All-in-One Computer (for modular class room) of make like HP, Dell or Better or Equivalent Reputed Makes	Intel Core™ Ultra 7 processor (4.8Ghz) or better, 14th Gen, 60.5cm (23.8") diagonal FHD display with Intel UHD Graphics16 GB DDR5-5600mt/s RAM, 512 GB SSD Hard drive, Wired Keyboard + Mouse Combo, 5 MP camera, Windows 11Pro, Ext.Ports - 2 USB x 3.2 gen, HDMI in/out ports, 1xLAN RJ-45 port, 1 x USB Type-C port. EPEAT Gold Certificate, BIS registered, BEE / Energy Star certified and RoHS Complied and EPR Complied.	1 RC			1
21	Control Processor of make like Extron, AMX, Crestron, Matrox or Better or Equivalent Reputed Makes	Automation Controller with Multi-Port I/O. The device shall include 4 serial ports (configurable RS-232, RS-422, or RS-485), 4 relay outputs (dry-contact), 4 IR/serial ports, 4 I/O ports configurable as analog or digital, and a separate isolated LAN 10/100 Mbps port. The embedded system shall operate on a secure Linux platform with 4 GB DDR3 RAM and 8 GB industrial-grade eMMC storage. It shall support simultaneous execution of scripts in JavaScript, Python, Groovy, and native Node-RED low-code flow programming. The front panel shall feature a USB-C programming port, USB-A host for storage/logging/IR input, and LEDs to indicate system, network, and I/O activity, including programmable ID indication. The device shall comply with ICES 003, CE EN 55032/35, IEC 62368-1, UL 62368-1, RoHS, and WEEE standards.	1	1	1	3
22	Extender of make like	Ethernet-based serial port extender with 1× RS-232 and 1× configurable RS-232/RS-	2	2	2	6



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

	Extron, AMX, Crestron, Matrox or Better or Equivalent Reputed Makes	422/RS-485 port, supporting up to 115.2 kbps with flow control. Device shall be powered via IEEE 802.3af Class 1 PoE with no external adapter. Includes 10/100 Mbps Ethernet interface with DHCP/static IP and web-based configuration.				
Digital Podium, USB Hub, HDMI Splitter & Presenter Remote						
23	Digital Podium of make like ATDSC, PeopleLink or Better or Equivalent Reputed Makes	Standalone Digital Podium: Mild Steel Material; Wheels with lock Smooth round edge at the top; Tray For Keyboard; Single sliding tray with lock for protection of the Interactive Panel , Document Camera and Controller; Space for 22" Interactive panel with Motorized angle adjustment; Space for Document Camera; Drawer with lock for Document Camera; Shelf for keeping laptop or Documents; Locks for safety; Standard Rack to keep all the equipment and PC; RFID Lock mechanism; 19" Rack for storing equipment; Separate space for Vertical Desktop PC; Two Door system – One for Rack and other for PC; PC door with small window for On/Off; Front Door for Servicing; For placement of extra laptop or Document to show through Inbuilt Document Camera and for Presenter with Internal Lock. Lock Mechanism: 3 options in lock- Manual key, RFID and Biometric (finger) for better security and ease of use. Connectivity: 1 x Power Plug, USB-C; 2 x USB 2.0, 1 x HDMI, 1 x VGA, 1 x LAN, 1 x Mono, 1 x Audio Video; Connectivity Ports at the bottom 1 x LAN, 1 x VGA, 2 x HDMI, 1 x Power Plug.	0	0	1	1
24	Podium WorkStation of make like HP, Dell or Better or Equivalent Reputed Makes	Intel Core™ Ultra 7 processor (4.8Ghz) or better, 14th Gen, 60.5cm (21.7") diagonal FHD display with Intel UHD Graphics16 GB DDR5-5600mt/s RAM, 512 GB SSD Hard drive, Wired Keyboard + Mouse Combo, 5 MP camera, Windows 11Pro, Ext.Ports - 2 USB x 3.2 gen, HDMI in/out ports, 1xLAN RJ-45 port, 1 x USB Type-C port. EPEAT Gold Certificate, BIS registered, BEE / Energy Star certified and RoHS Complied and EPR Complied. The supplied Podium WorkStation to be 100% set with the Digital Podium specification as mentioned on point	0	0	1	1



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

		no. 23.				
25	USB Hub of make like ATEN, AMX, InfoBit or Better or Equivalent Reputed Makes	4-port USB 3.0 hub ; Enables four computers to share USB peripheral up to four devices USB 3.2 Gen 1 compatibility with maximum data transfer rates up to 5 Gbps Multiplatform support - Windows, Mac and Linux Displays port focus via LED indicators Metal mechanical cassis with wall mountable design; Supports port selection via remote controller or RS-422 / RS-485 link through 5-pin terminal block; Supports hot plugging; Supports DC 9 - 24V power input through terminal block; Supports USB BC 1.2 and over current protection.	1	1	1	3
26	HDMI Splitter of make like ATEN, AMX, InfoBit or Better or Equivalent Reputed Makes	2-Port True 4K HDMI Splitter; HDMI 2.0 compliant; supports Deep Color, 3D, HDR and HDCP 2.2; Maximum resolution: 4096 × 2160 / 3840 × 2160 @60 Hz (4:4:4 color sampling); Maximum data throughput: 18 Gbps; Transmission distance: Up to 5 m at True 4K@60Hz (4:4:4); Audio Input: 1 x HDMI Type A Female; Output 2 x HDMI Type A Female	1	1	1	3
27	Presenter Remote of make like Logitech, iBall, RTS, or Better or Equivalent Reputed Makes	Based on IR /RF /USB /Bluetooth /Laser Pointer /Wifi.	1	1	1	3
10KVA Online UPS						
28	10 KVA Online UPS of make like VERTIV, APC, Numeric, or Better or Equivalent or Equivalent Reputed Makes with Batteries of reputed make like Exide /	Single Phase 10KVA UPS; Capacity of 8000W/6000VA; Nominal Voltage 230 Vac (1 Ph+ N); Voltage Range 160 Vac-300 Vac (1-phase) @ 100% load; Frequency Range 46~54 Hz or 56~64Hz; Power Factor ≥ 0.99 @ 100% load; Configurable Output Voltage 208/220/230/240VAC; Output Frequency Range (Batt. Mode) 50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz; Harmonic Distortion ≤ 2 % THD (Linear Load) ; ≤ 5 % THD (Non-linear Load); Waveform (Batt. Mode) Pure Sinewave; Battery Type: Lead acid/Tubular/Li-ion; Operation Humidity 0-95 % RH @ 0- 40°C ; Noise Level < 55 dB	0	1	0	1



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

	Amara Quanta etc.	@ 1 meter; 4 Stage Extendable Charging Design for optimized Battery Performance; Intelligent Monitoring with Standard RS232/USB Port.				
Cyber Workstation						
29	Cyber Workstation (for setup of forensic laboratory) of make like HP, Dell or Better or Equivalent Reputed Makes	As per "Specification – D".	0	1	0	1
Projector (DLP /LCD)						
30	DLP /LCD Heavy duty universal Projector of Make like EPSON /JVC /Panasonic or equivalent brand of repute for using existing screen size 12fx16f	6500 Lumens WXGA resolution, 5000:1, 3LCD / DLP projector with 2500 hours Lamp life, HDBaseT and HDMI connectivity. Compatible with Epson EB-G5 series lenses, Wide lens shift, manual vertical keystone correction, HDBaseT, Cinch audio in, RS-232C, Stereo mini jack audio in (4x), Stereo mini jack audio out, S-Video in, BNC in, Composite in, Display Port, HDMI in, VGA out, VGA in, Wireless Network, 10 Base-T, Wired Network.	0	0	1	1
ITC						
31	AV Cables & Connectors of make like Aten, Belden, Kramer, Extron Krystal, Neutrik or Better or Equivalent Reputed Makes	HDMI, Speaker Cable, USB Cable, Racks, Connectors	1	1	1	3
32	IT Structured Cabling of make like Commrux, Commscope, Molex or	Structured Cabling for Setting up 40 Computers (on need basis).	0	1	0	1



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

	Better or Equivalent Reputed Makes					
33	Installation, Testing & Commissionin g with 05 Years Warranty on the System	Installation, Testing & Commissioning with 05 Years Warranty of all supplied system.				
Additional Items / Line Items						
1	Printer EPSON EcoTank L8180 Multifunction A3+ InkTank Photo Printer or better		0	1	1	2
2	WACOM Touch Panel of minimum 23” FHD or above or better (Model No. DTH 2452G1CX) with Pen or equivalent.		0	0	5	5



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

3	Mixer	Channels (Mono + stereo)	5 + 3				
		Microphone inputs (XLR)	5				
		Auxiliaries (FX, AUX)	1 Post, 1 Pre				
		Max. single channel output power, dynamic-headroom, IHF-A					
		• into 4 Ω	640 W				
		• into 8 Ω	350 W				
		Max. dual channel output power, dynamic-headroom, IHF-A					
		• into 4 Ω	2 x 600 W				
		• into 8 Ω	2 x 340 W				
		Max. single channel output power, continuous, 1 kHz, THD = 1%					
		• into 4 Ω	500 W				
		• into 8 Ω	280 W				
		Maximum midband output power, 1 kHz, THD = 1%, dual channel					
		• into 4 Ω	2 x 450 W				
		• into 8 Ω	2 x 270 W				
		Rated output power, 20–20000 Hz, THD < 0.5%, one channel loaded					
		• into 4 Ω	2 x 400 W				
		• into 8 Ω	2 x 240 W				
		Max. output power, Direct Drive mode (bridge configuration), continuous, 1 kHz, THD = 1%					
		• into 12 Ω	680 W				
		Maximum output voltage, power amplifier, 1 kHz, no load					
		• Dual channel mode	52 Vrms				
		• Direct Drive mode	100 Vrms				
		THD, at 1 kHz, MBW = 22 kHz					
		• MIC input to master A L/R outputs, +10 dBu, typical	< 0.015%				
		• MIC input to speaker output	< 0.15%				
		DIM 30, MIC input to speaker output, 3.15 kHz, 15 kHz	< 0.05%				
		IMD-SMPTE, MIC input to speaker outputs, 60 Hz, 7 kHz	< 0.15%				
		Frequency response, -3 dB, ref. 1 kHz					
		• Any input to any Mixer output	15–22000 Hz				
		• Any input to Speaker output	20–22000 Hz				
		Crosstalk, 1 kHz					
		• Amplifier Ch1/Ch2	< -85 dB				
		• Channel to channel	< -78 dB				
		Microphone mute switch attenuation	> 100 dB				
		Channel VOL and FX/AUX-send attenuation	> 85 dB				
		CMRR, MIC input, 1 kHz	> 80 dB				
		Input Sensitivity, all level controls in max. position					
		• MIC	-65 dBu (435 μ V)				
		• LINE (mono)	-45 dBu (4.35 mV)				
		• LINE (stereo)	-27 dBu (34.6 mV)				
		• CD (stereo)	-27 dBu (34.6 mV)				



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

		<p>Maximum level, mixing desk, input VOL down, output VOL up</p> <ul style="list-style-type: none"> • MIC inputs, GAIN at min. position • Mono line inputs, GAIN at min. position • Stereo line inputs • PHONES outputs • MASTER A, B, AUX outputs 	<p>+11 dBu</p> <p>+30 dBu</p> <p>+26 dBu</p> <p>+21 dBu</p> <p>+11 dBu</p>				
		Input Impedances					
		• MIC	2 kΩ				
		CD	10 kΩ				
		All other inputs	> 15 kΩ				
		Output Impedances					
		• Phones	47 Ω				
		• All other outputs (impedance balanced)	150 Ω				
		Equivalent input noise, MIC preamp, A-weighted, max. gain, 150 Ω	-129 dBu				
		Noise, Channel inputs to master A L/R outputs, MBW = 22 kHz, A-weighted					
		• Master volume down	-99 dBu				
		• Master volume center, all channel volume down	-90 dBu				
		• Master volume center, all channel volume center	-85 dBu				
		Signal/noise-ratio, power amplifier, A-weighted, 450 W, 4 Ω	104 dB				
		Output stage topology, amplifier	Class D				
		Equalization					
		• LO shelving	±15 dB / 60 Hz				
		MID peaking	±12 dB / 2.4 kHz				
		HI shelving	±15 dB / 12 kHz				
		Master EQ 7-band (63, 160, 400, 1k, 2.5k, 6k, 12k Hz)	±10 dB / Q = 1.5				
		Filter					
		• Low cut, microphone processing (switchable)	80 Hz, 18 dB/oct. or 150 Hz, 12 dB/oct.				
		• Low cut, amplifier (engaged in 100 V Direct Drive mode)	50 Hz or 70 Hz, 18 dB/oct.				
		• Speaker processing	LPN, switchable				
		Delay master B, selectable	0–145 ms (0–50 m)				
		Effects					
		• Type	Stereo 24/48-bit multi effects processor				
		Effects presets	32 factory pre-sets, user editable				
		Remote control	Footswitch				
		Display	128 x 64 pixels, LCD				
		Audio player (USB at front panel)					
		• USB mass storage class, supported file systems	FAT 32				
		Supported audio file formats	MP3, WAV				
		Interface	USB2.0,				



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

			female type A				
		USB power supply, max. rated current (short circuit proof)	5 V, 500 mA				
		Digital Audio Interface (USB at rear panel)					
		• Channels	2 in, 2 out				
		AD/DA conversion	16-bit, delta-sigma				
		Sampling rate	32/44.1/48 kHz				
		PC interface	USB2.0, female type B				
		Protection • MASTER A, B, AUX outputs	Adjustable peak limiters, -10 – +11 dBu				
		Amplifier	Audio limiters, high temperature, DC, HF, short circuit, peak current limiters, turn-on delay, back EMF				
		Switching mode power supply (μ C controlled)	Inrush current limiters, mains over / under voltage, mains over current, high temperature				
		Cooling	Continuous speed controlled fan				
		Phantom power, switchable	48 V DC				
		Power requirements (SMPS with auto range mains input)	100–240 V AC, 50–60 Hz				
		Power consumption, at 1/8 maximum output power, 4 Ω	180 W				
		Safety Class	I				
		Operating temperature	5° to 40° C (40° to 105° F)				
		Product dimensions (Width x Height x Depth)	395 x 244 x 241 mm, Rack-mount: 483 x 223 x 310.3 mm (7 HU)				
		Weight • Net weight • Shipping weight	4.9 kg 6.4 kg				

Note: - All above technical specifications should be read as equivalent or better / higher side. The vendor may quote equivalent or better / higher specifications and please mention the same in compliance column of compliance sheet. In finalization of specifications' the decision of the High Court of Madhya Pradesh, Jabalpur will be final and binding on all.



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

The detailed bill of material / bill of quantities for submission of financial bid is as under:-

Table-A

S. No.	Item Description	Make and Model	Unit Price (In Rs.)	GST Applicable (In Rs.)	Sales / Service Tax (In Rs.) as applicable any other duties / taxes	Total Unit Price (All inclusive) with 05 years on-site warranty for items (In Rs.)	*Approx. no. of Items* (the number of items may increase / decrease depending upon the final requirement and setup)	Total Cost (In Rs.)
01	02	03	04	05	06	07	08	09 = 08x07
Audio (as per requirement of room size)								
1	DSP – (Digital Signal Processor with AEC)						3	
2	USB Bridge – (USB Audio Bridge for VC Audio)						3	
3	Amplifier – (4 Channel Digital Power Amplifier to drive speakers)						3	
4	Speaker – (Column Loudspeaker)						12	
5	Microphone – (Wireless Presenter Set)						3	
6	Microphone – (Wireless Handheld)						3	
7	Microphone – (Wired Gooseneck for Podium & Tabletop)						9	
Display System / Panels								
8	Interactive Touch Display – (86" UHD Multi Touch Interactive Display with necessary Mounting Bracket.)						3	
9	Display Panel – (55" Ultra HD Digital Signage with necessary Mounting Brackets).						6	
Capture, Recording & Streaming								
10	Recording Camera – (HDMI/USB 4K PTZ, 20 X Cameras with Auto Tracking Feature).						6	
11	Document Visualizer – (Native 4K UHD (60fps) Visualizer, 24x Zoom (12x optical), 4K UHD Streaming and recording).						1	
12	Wireless Presentation						3	



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

	System – (Wireless presentation system with HDMI, USB-C, 4K video, and collaboration features).							
13	Streaming & Recording – (Enables Capture, mixing, switching, recording, streaming, and upto 2TB backup of 2CH 4K UHD or up to 4CH Full HD video sources).						3	
Switching								
14	HDMI Switcher – (8x8 4K60 HDMI Switcher)						3	
15	Windowing Processor – (4x1+1 4K60 HDMI Windowing Processor)						3	
16	Switching – (HDMI to USB 3.0 capture device; support 4K60 4:4:4 video and HDCP 2.2, standard UVC interface and control, etc).						3	
17	Podium C Type + Switching (for display) – (3x1 Switching, Transport, and Control Solution for Podium Connectivity).						3	
Control System								
18	Control Touch Panel – (10.1" inch Professional - Grade Touch Panel).						3	
19	Control Keypad – (13 Button Keypad Control).						3	
20	All-in-One Computer (for modular class rooms) – Intel Core™ Ultra 7 processor (4.8Ghz) or better, 14th Gen, 60.5cm (23.8" or above).						8	
21	Control Processor – (Controller with 4 Serial, 4 IR, 4 IO, 4 Relay).						3	
22	Extender – (Universal Control Extender with 2 Serial Ports).						6	
Digital Podium, USB Hub, HDMI Splitter & Presenter Remote								
23	Digital Podium – (Mild Steel featuring a lockable drawer, a shelf for laptops or documents, and a 19" rack for equipment storage).						1	



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

24	Podium WorkStation						1	
25	USB Hub – (4-port USB 3.0 hub with individual port switches, compact design).						3	
26	HDMI Splitter – (2-Port True 4K HDMI Splitter).						3	
27	Presenter Remote.						3	
10KVA Online UPS								
28	Online UPS – (10 KVA Online UPS with Batteries of reputed make like Exide / Amara Quanta etc.						1	
Cyber Workstation								
29	Cyber Workstation (for setup of forensic laboratory) - As per "Specification – D".						1	
Projector (DLP/LCD)								
30	DLP /LCD Heavy duty universal Projector of Make like EPSON/JVC /Panasonic or equivalent brand of repute for using existing screen size 12fx16f						1	
Installation & Commissioning Charges								
31	AV Cables & Connectors – (HDMI, Speaker Cable, USB Cable, Racks, Connectors).						3	
32	IT Structured Cabling - Structured Cabling for Setting up of 40 Computers (on need basis).						Lumpsum	
33	Installation & Commissioning Charges (as applicable).						Lumpsum	
Total Rs. in Words _____								
Additional Items / Line Items Table-B								
01	Printer EPSON EcoTank L8180 Multifunction A3+ InkTank Photo Printer or better						2	
02	WACOM Touch Panel of minimum 23" FHD or above or better (Model No. DTH 2452G1CX) with Pen or equivalent.						5	
03	Mixer						1	



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

Note:-

1. The L-1 bidder shall be finalized on the basis of “Table-A” and “Table-B” is line item for the purchase by the Madhya Pradesh State Judicial Academy.
2. The High Court of Madhya Pradesh shall have full right to accept or reject any bid, without assigning any reason thereof.
3. The above clarifications / addendum are for all the prospective bidders’ for their tender reference.
4. All future correspondence/ clarifications/ addendum/ corrigendum shall be available on the website of the High Court of Madhya Pradesh i.e. www.mphc.gov.in and Government e-Procurement portal www.mptenders.gov.in.
5. All the pages of the bids and Annexure’s are to be sealed and signed by the authorized officers of the company / vendor.
6. All prospective bidders are requested to submit the bid with all relevant documents in sequenced manner, without fail.
7. In case of further query /clarification, please visit at High Court of Madhya Pradesh, Jabalpur.
8. On introduction of new levy / taxes / duties the rate / price of items shall be changed in same proportionate.
9. The Original equipment manufacturer (OEM) may authorize more than one partner for participation in the bid.
10. In case of Display Panel, the OEM should have Authorized Service Centre in State Capital / High Court Place for proper service support of Display Panels.
11. The delivery and installation time is maximum 60 days to complete the project from date of Purchase Order / Work Order. In case of exceptional circumstances/ Act of God, the time extension may be given by the High Court of Madhya Pradesh on case to case basis.
12. The total price of commercial bid inclusive of all taxes & expenses for **05 (Five) years** free on-site maintenance & support shall be taken as the basis for evaluation of commercial bids. In case of any discrepancy in the tax factor, the basic product price shall be taken in to consideration for finalization of bids.



HIGH COURT OF MADHYA PRADESH

PRINCIPAL SEAT – JABALPUR

No. Reg(IT)(SA)/2025/1483

Jabalpur, Dated:15/09/2025

13. The estimated project cost has been increased to approximately **Rs. 1.50 Crore** (*Rupees One Crore Fifty Lakh Only*) and the bidder has to submit the EMD of **Rs. 3,00,000/-** (*Rupees Three Lakh Only*) as per the bid value.
14. **In case of any technical issue at the time of filling of bid documents the High Court of Madhya Pradesh will not be responsible for any non-submission / late submission of bid documents.**
15. The last date for online tender submission is hereby extended till 07th October, 2025 by 06:00 P.M., hard copy submission is 08th October, 2025 by 05:00 P.M. and technical bid opening on 09th October, 2025 at 11:30 A.M.

Sd
REGISTRAR GENERAL