

TENDER DOCUMENT

FOR

**Supply, Installation, Testing & Commissioning of Audio, Video
and PA System Works in Hall No. 1, Hamdard Convention Centre
JAMIA HAMDARD**

Submitted by:

Name:

Address:

Contact No:

Email ID:

**JAMIA HAMDARD
(DEEMED TO BE UNIVERSITY)
HAMDARD NAGAR, NEW DELHI-110062**

NOTICE INVITING TENDER

Date:

Jamia Hamdard, New Delhi invites sealed Tenders in **Two bid system** from reputed Suppliers ,contractors registered with Govt. Semi Govt. or State Govt. organization or worked/working in Jamia Hamdard for the below mentioned work. Tender Documents are attached herewith. Last date of submission of the Tender is 11.04.2023 **up to 3:00 PM**. The bidders are also advised to visit the site to satisfy themselves before submitting the Bids. Bidders not fulfilling the Eligibility Criteria will be rejected. Eligibility Criteria is mentioned at Tender clause 2.

NAME OF WORK	Supply, Installation, Testing & Commissioning of Audio, Video and of PA System installed in Hall No. 1, Hamdard Convention Centre.
ESTIMATED COST	Rs. 28.50 Lakh
EARNEST MONEY	Rs. 57,000/- Demand Draft in favour of “Jamia Hamdard” New Delhi
TENDER COST	Rs.500/- Demand Draft in favour of “Jamia Hamdard” New Delhi
TIME PERIOD	60 Days from the 2nd day of the receipt of the work order.

The sealed tender duly filled should be dropped in the Tender Box kept in Purchase Section, Admin. Block, on or before 11.04.2023 **up to 3.00 PM** along with demand draft of earnest money & Tender fee in sealed envelope clearly specifying the name of work. The DDs shall be in favor of “Jamia Hamdard” payable at New Delhi. The bids shall be opened on 11.04.2023 at **3.30 PM** by the tender committee in presence of available interested parties. Jamia Hamdard reserves the right to reject any or all tenders without assigning any reason. In this regard, decision of Jamia Hamdard will be the final and binding on all bidders.

Registrar

1. SCOPE OF WORK

The successful tenderer shall be in a position to have a competent team of mechanics, tools & equipment's and provide after repair services as and when required. The work includes Supply, Installation, Testing & Commissioning of Audio, Video and of PA System installed in Hall No. 1, Hamdard Convention Centre. The agency must ensure warranty for at least one year or as per OEM warranty period.

2. ELIGIBILITY CRITERIA

- 2.1 Bidders must have Registration / empaneled with Govt. Semi Govt. or State Govt. organization or worked/working in Jamia Hamdard or any govt./academic institute for such works. Bidders have to submit the related copies of the documents and other Registration Certificates justifying the eligibility criteria along with his Tender. The original will have to be produced when demanded for verification.
- 2.2 Suppliers /Contractors should have executed similar nature of works of at least one contract of Rs.22.80 Lakh or two contracts of similar nature of works of Rs. 17.10 Lakhs or three contacts of similar natures of works Rs. 11.40Lakhs in the last 3 years in any institutional Buildings, Universities and produce credentials in support thereof.
- 2.3 Certified documents of having successfully completed similar works during the last 5 years as on 30.06.2022 should also be attached.
- 2.4 The bidder must have their office in New Delhi to provide an early service support.
- 2.5 The Bidders must have GST, PAN, etc.
- 2.6 The Bidder must submit the OEM authorization certificate (MAF)
- 2.7 LED OEM Should have LED module Manufacturing Facility to Consider as OEM
- 2.8 LED Should have BIS to be provided separately for LED wall offered Model.
- 2.9 LED OEM should have UL, CB, CE, EMC, FCC certificate.
- 2.10 LED OEM should have implemented minimum 10 plus Indoor LED video wall
- 2.11 The bidder or the LED OEM Should have ISO 9001, ISO1401, ISO45001, ISO50001 Certificate
- 2.12 LED OEM Should have RoHS Certificate
- 2.13 LED OEM Should have NSIC Certificate

3. SUBMISSION OF BIDS

Sealed tender should be submitted in sealed envelopes, super-scribing NIQ & Name of work, due date for opening, bidder's name & address. The sealed tender duly filled should be dropped in the tender box kept in the Central Purchase Section. It should not be handed over to any employee of the Jamia Hamdard. No tender shall be accepted later than the time schedule specified above. Any clarifications/amendments/corrigendum etc., to NIQ before last date of submission of bid will only be available on our website: www.jamiahamdard.edu. Therefore, bidders are advised to keep visiting our website.

Note: The bidder shall submit the following:

- a. Covering letter on Company's Letter head
- b. Tender Fee
- c. Earnest Money Deposit.
- d. Copies of GST, PAN, etc.
- e. Entire NIT and documents duly signed & stamped by the bidder./authorized representative.
- f. Bidder not complying the bid & eligibility criteria is liable to be rejected.
- g. BOQ cited on **Annexure 'A'**
- h. Bidders are required to quote his item rates in the above said attached BOQ in accordance with the scope of works, terms & conditions & technical specifications enclosed. The rates/price quoted by contractor should be all inclusive i.e. should include all material cost, labour, services, plant/machinery/tools & tackles, ladders & scaffolding required for work, freight, Insurance, Octroi, Govt. duties & levies, GST, Service Tax, Sales Tax etc.), transport/cartage of materials/labour and all other expenses not specifically mentioned but reasonably implied. It is mandatory for bidders to quote all items' rate as asked in the BOQ/ Price schedule. Failure in not filling some item rates will lead to rejection of tender. The bidders should quote unconditional rates, neatly written without any overwriting and all pages should be duly signed & stamped.

4. Terms and Conditions

1. Jamia Hamdard is at liberty to make additions/deletions/modifications/amendments in the tender document and the bidders are bound by the same.
2. The tender proposal, complete in all respects, should be signed by the authorized signatory of the bidder on all the pages of the documents at bottom right side corner as token of acceptance of the terms and conditions of the tender and for the purpose of identification. This is to ascertain that the applicant has quoted against all relevant items.
3. The Tender fee of Rs.500.00 & EMD's DD of Rs 57000/- should be in favour of "Jamia Hamdard" payable at New Delhi. Tenders received without tender fee & EMD will be rejected without assigning any reasons. Tender fee & EMD mentioned in the tender document have to be submitted by every bidder without any exception. The EMD of unsuccessful tenderer will be returned after issue of work order to the successful tenderer.
4. *Bidders are advised to examine and fully satisfy themselves before submitting their bids as to the nature of works to be executed and the other aspects pertaining to and/or impacting the works and shall themselves obtain all necessary information/clarification as to the risks, contingencies and other circumstances which may influence or affect the work/project.*
5. The tenderer will not be entitled to any claim of compensation, financial or otherwise, for difficulties, if any, faced or losses incurred by them on account of submission of the tender.

6. The price quoted in price bid should be inclusive of all types of taxes. No extra charges will be paid over and above the contract amount on account of any taxes (existing or future addition) or on any other account.
7. The agency should give warranty of one year or as per OEM.
8. The quantum of work may be increased or decreased.
9. **Payment Terms:** Repairing work charges will be paid after satisfactory completion of the actual works. The payment will generally be made within 60 days from the submission of bills. However, no interest is liable to be paid by Jamia Hamdard in case of delays, if any, in payment. A security amount of 5% will be deducted from the bill as defect and liability period. This amount will be withheld for a period of 6 months.
10. Statutory deduction towards income tax and other taxes will be made at the time of making payments and @ 0.25% will be deducted from each bill towards JHERF.
11. Rate Revision is not be permitted once work order is issued to successful bidder.
12. Losses incurred due to mishandling / misplacement / theft or any malpractice by technicians during the repair, the Contractor has to reimburse / make good of the losses suffered by university due to fault of his technicians. In case of non – reimbursement / making good by the contractor, the same will be recovered from the bills by University.
13. The Courts in Delhi alone shall have exclusive jurisdiction in respect of matters arising out of this Agreement & any such litigation.
14. If any dispute or difference of any kind what so ever shall arise between Jamia Hamdard and the contractor in connection with or arising out of this contract or the execution of work there under shall be referred to an arbitrator to be appointed by mutual consent of the parties hearing. If the party cannot agree on the appointment of the Arbitrator within a period of one month from the notification by one party to the other of existence of such dispute, then the Arbitrator shall be nominated by the Vice Chancellor, Jamia Hamdard. The provisions of the Arbitration and Conciliation Act 1996 will be applicable and the award made their under shall be final and binding upon the parties hereto, subject to legal remedies available under the law. This agreement shall be governed by the Law of Govt. of India for the time being in force. The Jurisdiction shall be Delhi/New Delhi.
15. All security and safety regulations and guidelines as per the applicable of law are to be followed. All guidelines/directions of the university Security Division must be followed.
16. The supplier /contractor will be liable for any loss, damage of casualty happened to the equipment or person during work. All labor laws amended time to time by Govt. of India will be strictly followed.
17. **Cancellation of Contract in Full or in Part:**
 - 17.1 In cases of poor workmanship and non-compliance of tender/agreement or services provided by the contractor are not found to be satisfactory, the contract shall be terminated by university and the security deposit shall be forfeited without assigning any reason what so ever.
 - 17.2 The Competent Authority may, without prejudice to any other right or remedy which shall have accrued or shall accrue thereafter to Jamia Hamdard by written notice cancel the contract as a whole or in part as it may deem appropriate.
18. During working at site, some restrictions may be imposed by Engineer-in-Charge/Security staff of Jamia Hamdard or Local Authorities regarding safety and security etc., the contractor shall be bound to follow all such restrictions/instruction & nothing extra shall be payable on this account.
19. Any damage to the building or the any part of the equipment which might result during the operation shall be repaired by the contractor.
20. Any damage resulting to the system on account of the negligence or mal-operation shall be made good by the contractor. Nothing extra will be paid for such work.

21. No compensation shall be payable to the contractor for any damage caused by rains lightening, wind, storm, floods Tornado, earth quakes or other natural calamities during the execution of work. He shall make good all such damages at his own cost; and no claim on this account will be entertained.
22. No labor hutment shall be allowed in the premises. All laborers should leave the site after day's work. The security & Watch ward of site contractor materials/work etc. shall be at his cost only.
23. The materials used for carrying out the work shall be of best locally available quality and the contractor has to carry out the necessary testing of the material as ordered by the Engineer-In-Charge for its conformity and all testing charges shall be borne by the contractor.
24. The contractor shall be fully responsible for any injury or damage caused to the workmen deployed by him at site for carrying out the work and Jamia Hamdard has nothing to do with such happenings and in no way shall be held responsible for the same.
25. All communication should be addressed to the **Registrar, Jamia Hamdard, Hamdard Nagar, New Delhi – 110062.**

Signature and seal of Tenderer

Price Bid for Audio, Video & PA system Work.

S No	Description	Specification	QTY	Unit	Rate	Amount
1.	Active LED	LED Video wall of 39.48 Square feet Size (4.7 Feet Height X8.4 Feet Breath) and Diagonal 9.63 feet Indoor LED Video wall with 16:9 Aspect Ratio Pixel configuration: SMD 3 in 1, Pitch (mm) 2.5, Ip rating ip20, Aspect Ratio: 16:09, Brightness Calibration: Yes, HDR: Supported, Bit Depth: 16Bit, Brightness (nits): 600, Max power consumption (W/m ²): 500, Avg power consumption (W/m ²):167, Horizontal viewing angle in degree: 160, Vertical viewing angle in degree: 14, Contrast Ratio: 7000:1, Refresh rate: 3840, Life spam: Minimum 100000 hours, Runtime: 24x7, Brightness Uniformity: ≥97%	02	Nos.		
2.	Mounting Bracket	MS frame/ mounting bracket for indoor wall hanging LED	02	Nos.		
3.	Video wall Processor	LED video wall controller Support minimum video input: DVI x1,HDMI x1, VGA x1, USB x1, CVBS x1, Minimum Output support: Dual- Ethernet output, 1.3 million pixel loading capacity, maximum width of 3840, Support for smart configuration,Adjust Layer Position, Layer Size,and screen capture,support for full scalling with total	01	No.		
4	65” 4k Display	Diagonal Size: 65,Type: Edge LED BLU, Resolution:3840*2160 (4K UHD), Pixel Pitch(mm):0.372 x 0.372 , Active Display Area(mm): 1428.48 (H) x 803.52 (V),Brightness(Typ.) 350 nit Contrast Ratio: 4000:1,Viewing Angle(H/V):178/178, Response Time(G-to-G) 8ms(Typ.), Display Colors: 16.7M(True Display) 1.07B(Ditherd 10bit): Color Gamut 92% (DCI-P3, CIE 1976) Operation Hour: 16/7,Haze:2%,				

		<p>Dynamic C/R: MEGA, H-Scanning Frequency: 30 ~ 81kHz, V- Scanning Frequency: 48 ~ 75HZ, Maximum Pixel Frequency:594MHz Speaker Type: Built in Speaker(10W + 10W), Input, RGB: DVI-D, Video: HDMI 2.0 (2), HDCP: HDCP 2.2, Audio: Stereo Mini Jack, DVI/HDMI/Audio(Common), USB: USB 2.0 x 2, Output: Audio Stereo Mini Jack External Control: RS232C(in/out) thru stereo jack, RJ45, External Sensor:IR, Power Consumption: Max[W/h], 181.5 , Typical[W/h]: 128, Rating[W/h]:165, BTU(Max): 618.9, Sleep mode: 0.5 :Key Features: UHD Signage Display Slim & Light Signage with Built-in MagicInfo S6, SSSP 6.0, Orientation: N/A, Remote Control: N/A, Special Features: H/W: Temperature Sensor, Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), IP5x, Wi-Fi/BT S/W: Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) Internal Player Processor: Coretex A72 1.7GHz Quad-Core CPU, On- Chip Cache Memory L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB, Clock Speed 1.7GHz Main Memory Interface 2.5GB LPDDR4 1.5GHz 64bit, Graphic resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic processing result.) Storage (FDM) 8GB (3.88GB Occupied by O/S, 4.12GB Available), Multimedia Video Decoder : MPEG-1/2/4, H.263, H.264/AVC, UHD H.264/AVC, VC- 1, AVS+, HEVC, JPEG, PNG, VP8, VP9 *Audio Decoder : AC3 (DD), MPEG, IO Ports: USB 2.0, Operating System: Tizen 4.0 (VDLinux)</p>	1	Nos		
5	Microphone	<p>Microphone connector: XLR 3M, XLR 5M, Impedance: < 100 Ω, Dimensions: length: 450 mm (17,72"), Frequency response</p>				

		(Microphone): 50 Hz - 20 kHz, Transducer principle (Microphone), pre polarised condenser microphone, Weight: 147 g (4,72 oz), Pick-up pattern: cardioid, Operating temperature: 0 ... +40 °C, Equivalent noise level: 26 dB (A), Equivalent noise level weighted as per CCIR: 37 dB, Maximum sound pressure level (passive):130 dB SPL, Power supply: P12 - P48 V, Current consumption: 3 mA, Base: LED light ring: red / green, Dimensions: 120 x 170 x 43 mm (BTH / WDH), Connector: Mic in: XLR-3F, Connector: Mic out: XLR-3M, Connector: Logic: clip contact for logic, Pin assignment: trigger signal at the logic connector: Logic in (external LED control), GND, Logic out (switch signal, Weight: 1210 g, Phantom powering: P 24 - P 48, Operating temperature: -10° - +50°C, Current consumption: 3.7 mA, Output voltage: Logic out: high level output voltage > 2.4 V, low level output voltage < 0.4 V, Output voltage: Logic in: high level input voltage > 2.0 V, low level input voltage < 0.8 V	7	Nos		
6	PTZ Camera	Supply of 4K @30fps & Full HD 1080p @ 60fps PTZ Camera with minimum 30X Optical Zoom & FoV of minimum 68-degree, min 255 Pre-sets. Camera should support simultaneous outputs through Ethernet, HDMI, 3G-SDI, Audio In and can be controlled via RS232 & 422 In & Out & IP, Panning angle - 170° ~ +170°, Tilting angle -30° ~ +90° . The tilting and panning speed of camera should be minimum 300° per second. Camera should support SRT, Free D Protocol, PoE and Virtual USB Driver and should be NDI compatible. OEM should be CE, FCC, RoHS & BIS Certified.	01	No.		
7	HDMI Matrix Switcher	Supply of UHD+ 4x4 HDMI with Audio Output matrix switcher 18Gbps (600MHz) or better. HDCP 1.4 and 2.2 compliant or better. Supports HD resolutions up to 3840x2160@60 Hz (YUV 4:4:4, 8-	01	Nos.		

		<p>bit) or better & 4096x2160@60 Hz (YUV 4:4:4, 8-bit) or better. Supports 48-bit Deep Colour up to 1080p60 or better. Supports pass-through of LPCM 7.1 or better, bitstream and HD bitstream audio formats over HDMI or better. Supports six internal EDIDs, four external EDIDs copied from connected devices, and four users provided EDIDs Controllable via front-panel buttons or better, RS232, Telnet, WebGUI, and IR remote or better.</p>				
8	Button panel control processor	<p>Supply of 8-Button Control Keypad can send commands to any Ethernet controlled or relay controllable device. Can be powered by an Ethernet switch that supports the IEEE 802.3af PoE standard. Controllable via keypad, Telnet and WebGUI.</p>	01	No.		
9	HDMI Rx,TX 70mtr	<p>Supply of HDMI over single Cat 6 transmitter and Receiver extending uncompressed HD audio and video as well as control via a single run over distances of up to 70 meters. Supports CEC bypass. Supports input/output resolutions up to 4K@60Hz (4:2:0, 8-bit). HDCP and DVI compliant Complies with the HDBaseT technology. Multiple data and control interfaces are provided, including IR and RS-232 connections. This extender complies with the advanced HDCP 2.2 and HDMI 2.0 standards.</p>	03	Set		
10	HDMI Rx Tx 100mtr	<p>Supply of HDMI over CAT5e/6/7 Transmitter and Receiver pair can send uncompressed video/audio and IP data over a single run of CAT5e/6/7 cable up to 100 meters, HDCP and DVI compliant. Supports HDCP repeater and CEC bypass functions. Supports HDBaseT Technology including 2-Way IR, RS-232 and Power over Cable (PoC). Supports HD resolutions up to 1080p@60 Hz/36-bit and Ultra HD (4K×2K). Supports transmission distance of up to 60 meters through CAT5e/6/7 cable (1080p) or 35 meters (4K×2K) Supports HDMI</p>	03	Set		

		input up to 15 meters at 8-bit resolution or 10 meters at 12-bit resolution and output up to 15 meters at 8-bit resolution and 10 meters at 12-bit resolution RS-232 with baud rate up to 115200/sec IR Frequency 30 - 50kHz				
11	USB Audio converter	USB Audio Adapter External Stereo Sound Card With 3.5mm Headphone And Microphone Jack For Windows, Mac, Linux, PC,	1	Nos		
12	USB HUB	Hardware Interface: USB 3.0, Number of Ports: 4, Compatible Devices: Mouse, Keyboards, Laptops, Card Readers, USB Stick, Operating System: Linux, Windows, Mac	1	Nos		
13	HDMI Cable	1.8mtr HDMI CABLE 2.0V 30AWG OD7.3MM OFC CONDUCTOR 4K -2K@50/60HZ 18GBPS/ARC/ETHERNET/3D	10	Nos		
14	Cat6 UTP cable	CAT6 UTP Cable supports Gigabit Ethernet (1000 Base-T) standard. Operates at a bandwidth up to 250 Mhz. This cable well exceeds the requirements of TIA/EIA-568.C.2 Category 6 ISO/IEC Class E	305	Mtr		
15	Capture Device	One HDMI Signal Input One HDMI Loop Output Watching and recording. Use USB 3.0 to record full HD images at high speed Support most acquisition software, such as VLC,OBS, Amcap,etc No need to install the driver,plug and play. Support record NV12 YUY2 XRGB/RGB32 video format. Support HDMI 4K/60hz resolution input. Support Capturing 4K/30Hz resolution. High-quality aluminum alloy material Support independent microphone and CTIA and OMTP standard headset.	1	Nos		
Total Rs.						

Signature and seal of Tenderer

ANNEXURE-B

Specifications of items mentioned in BOQ

S No	Specification	Make
1	Active LED	OSEL/ SAMSUNG / LG
2	Mounting Bracket	Custom
3	Video wall Processor	OSEL/ SAMSUNG / LG / NOVASTAR
4	4k LED Display	Samsung / LG/ Sony
5	Microphone	Sennhieser / Audix/ AudioTechnica
6	PTZ Camera	Vaddio/ Sony/ Lumens
7	HDMI Matrix Switcher	Kramer/ Extron/ Cypress
8	Button panel control processor	Kramer/ Extron/ Cypress
9	HDMI Rx, Tx 70mtr/ 100 mtr	Kramer/ Extron/ Cypress
10	USB Audio Converter	Aten/ Kramer/Ugreen
11	USB HUB	Aten/ Kramer/Ugreen
12	HDMI Cable	Aten/ Kramer/Linetek
13	Cat6 UTP Cable	Dlink/Commscope/ belden
14	Capture device	Kramer/Cypress/Linetek

**(Signature of Proprietor/Partner/Chief Executive)
(With Seal)**