

**Foundation for Innovation and Technology Transfer  
(FITT)**

REF: FT/2023/11/14  
Date: 28<sup>th</sup> February 2025

**Notice Inviting Quotation for Sound System Procurement for a Project at FITT, IIT DELHI**

Sealed bids are invited for the Sound System Procurement from experienced agencies in the relevant category of work and who have carried out similar works with Govt./SemiGovt./PSUs in the past as per the requirements and details enclosed. Agencies having the required capability and possessing relevant may respond to the NIQ and should submit supporting documents in respect of eligibility criteria as per the defined timeline.

The NIQ can be downloaded from our website: <https://fitt-iitd.in/>.

**1. SCOPE OF WORK**

**1.1. Overview:**

- Supply of equipment as per the specifications listed in Section 2.
- Installation and commissioning of the sound system components.
- Integration and testing of the system for optimal performance.
- Providing training to the end-users on the operation and maintenance of the system.
- Providing all necessary documentation, including warranties, manuals, and installation guides.

**1.2. Testing and Validation:**

The agency must conduct thorough testing adhering to outlined procedures and acceptance criteria to ensure Sound System meets specified requirements and performance standards.

**1.3. Training and Documentation:**

The agency should provide training sessions for users/administrators. Comprehensive documentation, including user manuals, troubleshooting guides, and technical documentation, is mandatory.

**1.4. Warranty:**

The Sound System supplied under this tender should include a comprehensive six **(6)-year warranty** commencing from the date of delivery. This shall be an onsite warranty covering defects in the materials, functionality of the Sound System, providing repair, replacement, or maintenance of faulty components.

**1.5. Compliance and Standards:**

All Sound Systems must comply with relevant industry standards, certifications, and organizational protocols.

**1.6. Delivery and Timelines:**

Delivery and completion targets must align with the following project timelines:

- All the Sound Systems must be delivered to **Nalanda, Bihar** at the address which will be specified in the work contract within **25 days** from the date of award/date of communication of the acceptance of the tender.

## 2. SCHEDULE OF QUANTITIES

S. No.	Item	Use	Specifications	Example of Makes*	Qty
1	<b>Two-Way 6.5" Ceiling Speaker</b>	Used for ceiling-mounted sound distribution in rooms or halls, providing high-quality audio output.	<ul style="list-style-type: none"> <li>- Frequency Range: 80Hz – 18kHz or Better</li> <li>- LF Driver: 6.5" or larger, HF Driver: 0.75" tweeter or Larger</li> <li>- Power Rating: 50W or more</li> <li>- Impedance: 8 - 16 Ohms</li> <li>- Nominal Coverage Angle: 90° - 120°</li> <li>- Transformer Taps: 60W, 30W, 15W, 7.5W, or 4W @ 70V/100V</li> <li>- Max SPL: 108dB or better</li> </ul>	JBL/Martin Audio/DB/S oundtube	2
2	<b>Audio Mixing Console</b>	Mixes audio inputs from various sources (microphones, instruments) and interfaces with USB for playback and recording.	<ul style="list-style-type: none"> <li>- Control type: 8 – 20 channel mixing console</li> <li>- Digital Interface: USB interface for playback/recording</li> <li>- Input Channel: 4 – 6 Mic inputs, 2 – 4 Stereo inputs (TRS/RCA) or better</li> <li>- Bluetooth: Required as an build-in / External interface from reputed makes</li> <li>- Bit Depth: 8-bit/16-bit</li> <li>- Sample Rate: 32kHz/44.1kHz/48kHz or better</li> </ul>	Soundcraft/ Yamaha/Dig ico/Allen Heath	1
3	<b>Dual Network-Based Digital Power Amplifier - (350W)</b>	Provides power to drive loudspeakers with networked control and DSP features.	<ul style="list-style-type: none"> <li>- Power Output: 300W–350W @ 8 Ohms per channel, Supports 70Vrms/100Vrms output</li> <li>- THD: Less than 0.5%</li> <li>- Voltage Gain: Voltage Gain of 27 dB or more OR Supports 20 dBu and 27 dBu as input levels</li> <li>- DSP features: Limiters, EQ, Delay, Mixer</li> <li>- Damping Factor: Damping Factor &gt;80, preferably &gt;400 or better</li> <li>= Other Features: RJ45 ports for monitoring/configuration</li> </ul>	Crown/Marti n Audio/DB	1
4	<b>Ultra-Compact In-Ceiling Satellite Loudspeaker</b>	Compact speakers for small to medium-sized spaces, delivering wide coverage.	<ul style="list-style-type: none"> <li>- Driver: Max 2.45"–2.65" or Better</li> <li>- Continuous Program Power: 30W–40W</li> <li>- Frequency Range: 142Hz–20kHz or better</li> <li>- Max SPL: 98dB or more</li> <li>- Conical Coverage: 160° or more</li> </ul>	JBL/Martin Audio/DB/S oundtube	4
5	<b>Two-Way Wall Mount Loudspeaker</b>	Wall-mounted loudspeakers for rooms, providing directional sound coverage.	<ul style="list-style-type: none"> <li>- LF Driver: 5.25" – 8 " or Better</li> <li>- Frequency Range: 80Hz – 17 kHz or better</li> <li>- Power Rating: 150W Continuous / 300W Program Power or better</li> <li>- Transformer Tapings: 60W, 30W, 15W, and 7.5W at 70V/100V or equivalent</li> <li>- Coverage: 90°–100° Horizontal x 80°–100°</li> </ul>	JBL/Martin Audio/DB/S oundtube	8

			Vertical or better - Max SPL: 113 dB Continuous or 120 dB Peak SPL or better		
6	<b>Multi-Channel Network-Based Digital Power Amplifier</b>	Provides power to multiple loudspeakers with networked control and DSP features.	- Power Output: 300W–350W @ 8 Ohms per channel, Supports 70Vrms/100Vrms on all channels - THD: <0.5% - Voltage Gain: 27dB or more OR Supports 20 dBu or more as input levels - DSP features: Limiters, EQ, Delay, Mixer - Damping Factor: Damping Factor >80, preferably >400 or better - Other Features: RJ45 ports for monitoring/configuration	Crown/Martin Audio/DB	1
7	<b>Networked Digital Signal Processor</b>	Manages and processes audio signals with flexible input/output and control options.	- Total Channel 4 or more Inputs & 4 or more Outputs - Control Inputs: Required - Logic Outputs: Required - THD: <0.03% - Other Features: Digital bus RJ45 Ports, Ethernet Port RS232 and TCP/IP compatibility,	BSS/Clock Audio/Martin Audio	1
8	<b>Subwoofer (Single 15 inches)</b>	Low-frequency audio enhancement for creating deep bass sound.	- Frequency Range (-10dB): 41Hz – 140Hz or better - Frequency Response ( $\pm 3$ dB): 47Hz – 140Hz or better - Sensitivity: 94dB (1W @ 1m) or better - Max SPL: 120dB (126dB peak) - Power Rating: 500W (2000W peak) or better - LF Driver: 15" woofer or better	JBL/Martin Audio/DB	2
9	<b>Dual-Channel Network-Based Digital Power Amplifier (1200W)</b>	High-power amplifier to drive large sound systems, with networked control and DSP features.	- Power Output: 1200W @ 8 Ohms per channel or better - Supports: 70Vrms / 100Vrms on all channels or external support - THD: <0.35% or better - Voltage Gain: 27dB or more, Supports 20 dBu or more as input levels - DSP features: Limiters, EQ, Delay, Mixer - Damping Factor: Damping Factor >80, preferably >400 or better - Other Features: RJ45 Ports for monitoring/configuration	Crown/Martin Audio/DB	1

*\*Any equivalent brand meeting the required technical specifications is welcome, provided they can demonstrate the necessary performance and support capabilities. The judgment of the quality of a brand or company, including its reputation and after-sales support, will be at the sole discretion of FITT.*

### 3. Important Dates:

Event	Date
Date of Issue	28th Feb 2025
Pre-bid Query submission Date (Email Only- NamitaGupta@fitt-iitd.in; COO@fitt-iitd.in)	7 <sup>th</sup> Mar 2025
Pre-bid Clarification Meeting Date (Online mode)	14 <sup>th</sup> Mar 2025
Bid Submission Date	<b>21<sup>st</sup> Mar 2025</b>

### 4. Preparation of Bids:

The offer/bid should be submitted in two bid systems (i.e.) Technical bid and financial bid. The technical bid should include all technical details along with commercial terms and conditions.

The financial bid should indicate the item-wise price for the items mentioned in the technical bid. **Please quote prices in Indian rupees, including all taxes and duties.**

**Two separate sealed envelopes are to be submitted for technical and financial bids (clearly labelled as “technical bid” and “financial bid”), respectively.**

### 5. Opening of the tender:

The bid will be opened by a committee duly constituted for this purpose. The technical bid will be opened first and examined by a technical committee (as per specification and requirement). The financial offer/bid will be opened only for the offer/bid that technically meets all requirements as per the specification.

### 6. Selection criteria:

Selection of the Agency shall be on an L1 basis.

### 7. Acceptance/ Rejection of bids:

FITT reserves the right to reject any or all offers without assigning any reason. FITT shall have the authority to cancel the tender process if it does not find a suitable bidder/agency.

FITT shall have the right to call for fresh tender in these circumstances, where the prior bidder/agency shall have the right to participate in the fresh process.

### 8. The last date of submitting the bids will be 21<sup>st</sup> Mar 2025 before 5:00 pm to:

MD, FITT  
Foundation for Innovation and Technology Transfer,  
Indian Institute of Technology Delhi,  
Hauz Khas, New Delhi 110016  
Email: mdfitt@gmail.com  
Ph: 011-2659 6033

### 9. Declaration For Signing Authority:

The person signing the tender on behalf of another person or on behalf of the firm shall attach with the tender a certified copy of a power of attorney on a non-judicial stamp paper of requisite value duly executed in his favor by such person or all the partners of the firm and must state specifically that he has authority to sign such tenders for and on behalf of other person or firm as the case may be, and in all matters pertaining to the contract including the arbitration clause.

**10. Submission of Response:**

The agency will submit the following documents as a part of the response of NIQ.

- 10.1. Original NIQ documents signed on all pages as acceptance of the terms and conditions
- 10.2. Earnest Money Deposit (EMD)
- 10.3. Documents as listed in para 14 (Pre-qualification requirement) as per Annexure 1
- 10.4. Company details as per Annexure 2
- 10.5. Technical Bid as per Annexure 4
- 10.6. Financial Bid as per the Annexure 5

**11. Earnest Money Deposit (EMD):**

Bidder is required to deposit Rs. 10,000/- (Rupees ten Thousand only) in the form of a demand draft in favour of “FITT IITD” payable at Delhi to be submitted along with the tender.

The EMD shall be refunded after the award of the contract.

**12. Pre-qualification requirements:**

For the contract award, preference will be given to experienced service partners as per the pre-qualification requirements listed below. The agency would be evaluated based on the submission of documents and experience.

**Under Mentioned Documents have to be enclosed with the bid:**

Criterion	Details	Documents/Evidence
<b>Profile of Company</b>	Minimum Average turnover of Rs 50 Lakhs for last 3 FYs (for 21-22, 22-23, 23-24)  (Exempted for MSMEs & startups)	<ul style="list-style-type: none"> <li>- Company registration certificate as per Companies Act 1956</li> <li>- Attach copy of audited B/S &amp; P&amp;L Statement of last 3 years</li> <li>- The Bidder has to be profitable and should not have incurred loss in any of the last 3 consecutive Financial Years (<i>Excluding Covid period</i>)</li> <li>- (MSME certificate/startup registration, wherever applicable)</li> </ul>
<b>Experience</b>	The agency should have delivered at least one similar Sound System for any project of AV/IT integration, Digital Experience centre/ Museum/ Interpretation Centre/Exhibition	<ul style="list-style-type: none"> <li>- The bidder has to submit an invoice copy of the delivered hardware and a photo of the installed sound system as proof</li> </ul>
<b>Blacklisted/Debarred Companies</b>	The firm should not be blacklisted by any Central Govt. / State Govt. / PSU/Govt. Bodies/ IITs & IIMs/Reputed Educational Institutes or any other agency in India.	Affidavit on Non-Judicial Stamp Paper as per format in Annexure- 5 to be submitted

<b>OEM certifications</b>	The agency shall provide OEM Certifications (where applicable)	Declaration in this regard to be submitted in OEM letterhead.
<b>ISO Certified</b>	The firm/company should be ISO 9001 certified (Maintenance & System Integration). A copy of the certificate must be attached with the bid.	Please attach certificate
<b>Certification</b>	The agency should have valid registration with appropriate statutory authorities as required under law. A copy of all such registrations such as Incorporation Certificate, MOA, PAN, GSTIN, etc. must be enclosed.	Copy of Certificate Incorporation; and Copy of GSTIN, PAN

### **13. Other terms and conditions:**

- 13.1. While applying for the tender document, the intending tenderers shall comply with all requirements.
- 13.2. The Party/Parties are expected to respond to the NIQ using the forms/annexure given in this section and all documents supporting Pre-Qualification / Criteria. Bids without the pre-qualification documents and annexures will be summarily rejected.
- 13.3. The tender should be completed in all respects and should be signed by the Authorized Signatory of Tenderer on all the pages. Also, the company stamp shall be placed under the signature on every page of the tender document.
- 13.4. All the columns of the tender shall be duly, properly and exhaustively filled in. The rates and units shall not be overwritten. The rates shall always be both in figures and words.
- 13.5. While submitting the tender, any of the prescribed conditions are not fulfilled or are incomplete in any form, the tender is liable to be rejected. Any cutting/over writing etc. in the tender must be signed by the person who is signing the tender.
- 13.6. FITT shall have the right to seek any additional information/clarification from the firm in relation to the information provided by them in bid document.
- 13.7. Bids without Earnest Money will be summarily rejected. The Earnest Money Deposit of the bidders will be returned to them after the completion of the tendering process.
- 13.8. Bidders with valid registration with MSME or startup registration shall be exempted from the submission of EMD. A copy of the said certificate shall also be enclosed with the tender document for availing the benefits.
- 13.9. The tenderer must confirm their acceptance of the terms and conditions mentioned herein and the enclosed documents. Each page of the original NIQ document should be signed and returned, and this will form a part of the contract.

- 13.10. Any further corrigendum/addendum to this tender document shall be made available on the aforesaid website. It is, therefore, requested that the bidders may regularly visit the website for checking any corrigendum/addendum to this document.
- 13.11. If the quote is being submitted by a representative of the manufacturer, a valid agency-ship or dealership certificate authorizing the agent to quote to FITT on behalf of the manufacturers should be enclosed. The principal and the vendor, both, are not allowed to quote for the same product.
- 13.12. Please specify all of your terms and conditions clearly, including delivery period.
- 13.13. The agency is to acknowledge the potential for FITT to adjust the quantity of Sound Systems in response to evolving operational needs. FITT reserves the right to modify the quantity of Sound System at a later stage without the requirement to initiate a new tender process. The selected agency commits to accommodating such changes and, upon notification from FITT, is obligated to supply the additional or modified Sound Systems in alignment with the initially agreed specifications and pricing outlined in the original contract.
- 13.14. The Tenderer agrees that the rates submitted shall remain valid for acceptance for a period of 60 days from the date of opening of the tender.
- 13.15. All communication with respect to the tender shall be addressed to:  
**Senior Manager - Projects**  
**Foundation for Innovation and Technology Transfer (FITT)**  
**Indian Institute of Technology Delhi**  
**Hauz Khas**  
**New Delhi -110016**

#### **14. SECURITY DEPOSIT:**

- 14.1. Within seven days of the award of the contract, the successful tenderer shall furnish to FITT a performance security/Bank guarantee (PBG) from their Bank valid up to Sixty (60) days (i.e. 2 Months) post the expiry of the warranty Period (which is 6 years commencing from the date of delivery). The amount of the Performance security shall be @ 3% of the Contract Value. At the end of the Validity Period, FITT shall unconditionally release the performance security / PBG without any interest to the tenderer.
- 14.2. Security Deposit will be forfeited in the event of the contract terms and conditions not being fulfilled by the Tenderer/Contractor.

#### **15. COMMENCEMENT OF WORK**

- 15.1. The agency is required to deliver the Sound System within 25 days from the date of award/date of communication of acceptance of the tender.  
In case the delivery is not done within 25 days from the date of acceptance of the tender or issue of the work order, the FITT may cancel the work order and

forfeit the Security Deposit deposited along with tender without any reference to the agency.

- 15.2. A complete set of manuals for the operation of the equipment should be given at the time of delivery.

## 16. PAYMENT TERMS AND CONDITIONS

- 16.1. **If the agency requests an advance amount** (a maximum of 50% of the contract value can be requested as advance), then it will submit a **Bank Guarantee** of 110% of the advance amount, and the **payment schedule** will be as follows:

- 16.1.1. **Phase 1:** An advance payment of a maximum of 50% of the total bid amount will be disbursed upon submission of the Bank Guarantee;
- 16.1.2. **Phase 2:** Upon the agency's successful delivery of the Sound System, 30% of the total amount shall be disbursed on satisfactory inspection and approval by FITT;
- 16.1.3. **Phase 3:** The remaining 20% of the total amount shall be released after 90 days of the date of delivery.
- 16.1.4. These disbursements shall be contingent upon satisfactory inspection and approvals and shall be disbursed to the agency only after FITT has received the payment from end-client.
- 16.1.5. Upon the satisfactory delivery and inspection of the equipment by FITT, the agency's Bank Guarantee will be promptly released.

- 16.2. **If the agency does not request any advance amount**, then the **payment schedule** will be as follows:

- 16.2.1. **Phase 1:** Upon the agency's successful delivery of the Sound System, 80% of the total amount shall be disbursed on satisfactory inspection and approvals.
- 16.2.2. **Phase 2:** The remaining 20% of the total amount shall be released after 90 days of the date of delivery.
- 16.2.3. These disbursements shall be contingent upon FITT's inspection and approval, and shall be disbursed to the agency only after FITT has received the payment from end-client.

## 17. ARBITRATION AND LAWS: -

In the event of any dispute, the same shall be referred to the sole arbitration of the Managing Director, FITT, or such officer he may appoint to be the arbitrator. There would be no objection that the Arbitrator is an employee of FITT or that he had to deal with the matter to which this tender relates is that in the course of his duties as an employee of FITT, he has expressed his views or all or any of the matters in dispute or differences. The award of the officer so appointed by him shall be final and binding on the tenderers. The venue of Arbitration is at Delhi only. The award of the arbitrator shall be final, conclusive and binding on all parties to this contract. The cost of arbitration shall be borne by the parties to the dispute, as may be decided by the arbitrator(s).

All legal matters shall be subjected to the jurisdiction of Delhi Court.



**Annexure 1****Pre-Qualification criteria**

<b>Criterion</b>	<b>Details</b>	<b>Documents/Evidence</b>	<b>Submission Status (Yes/No)</b>	<b>Name of the Document Submitted</b>
<b>Profile of Company</b>	Minimum Average turnover of Rs 50 Lakh for last 3 FYs. (for 19-20, 21-22, 22-23) (Excluding COVID)  (Exempted for MSMEs & startups)	<ul style="list-style-type: none"><li>- Company registration certificate as per Companies Act 1956</li><li>- Attach copy of audited B/S &amp; P&amp;L Statement of last 3 years</li><li>- The Bidder has to be profitable and should not have incurred loss in any of the last 3 consecutive Financial Years (<i>Excluding Covid period</i>)</li><li>- (MSME certificate/ startup registration, wherever applicable)</li></ul>		
<b>Experience</b>	The agency should have delivered at least one similar Sound System for any project of AV/IT integration, Digital Experience centre/ Museum/ Interpretation Centre/Exhibition	<ul style="list-style-type: none"><li>- The bidder has to submit an invoice copy of the delivered hardware and a photo of the installed sound system as proof.</li></ul>		
<b>Blacklisted/Debarred Companies</b>	The firm should not be blacklisted by any Central Govt. / State Govt. / PSU/Govt. Bodies/ IITs & IIMs/Reputed Educational Institutes or any other agency in India.	Affidavit on Non-Judicial Stamp Paper as per format in Annexure- 3 to be submitted		
<b>OEM certifications</b>	The agency shall provide OEM Certifications (where applicable)	Declaration in this regard to be submitted in OEM letterhead.		
<b>ISO Certified</b>	The firm/company should be ISO 9001 certified (Maintenance & System Integration). A copy of the certificate must be attached with the bid.	Please attach certificate		
<b>Certification</b>	The agency should have valid registration with appropriate statutory authorities as required under law. A copy of all such registrations such as Incorporation Certificate, MOA, PAN, GSTIN, etc. must be enclosed.	Copy of Certificate Incorporation; and Copy of GSTIN, PAN		

**Annexure 2****Company details**

<b>S. No.</b>	<b>Information</b>	<b>Details</b>
1	Name of the Contact Person	
2	Address of the Contact Person	
3	Name, designation and contact, address of the person to whom, all references shall be made regarding this NIQ.	
4	Telephone/Mobile number of the Contact Person.	
5	Email ID of the Contact Person	
6	Corporate website URL.	
7	Name of the Organization:	
8	Head of the Organization (with designation):	
9	Legal Status (Whether Company, Proprietorship, Partnership, Society/Trust etc.	
10	Address of Head Office:	
11	Number of Offices (including Head Office): India & Abroad	
12	Annual Turnover (in Lakhs): (Last three Years)/MSME (Yes/No)	
13	Years of Operation (in Years):	
14	PAN Number	
15	GSTN	
16	Number of Employees:	
17	Number of Technical Staff	
19	List of major clients	1. 2. 3.

**Annexure 3**

**SELF-DECLARATION – NON-BLACKLISTING**

To,

The Managing Director  
FITT,  
Deans Complex, IIT Delhi  
Hauz Khas  
New Delhi - 110 016, India

Sir,

In response to the NIQ Ref No. \_\_\_\_\_ Dated \_\_\_\_\_.

\_\_\_\_\_, I/ We hereby declare that presently our Company/ Firm \_\_\_\_\_ is having unblemished record and is not declared ineligible for corrupt & fraudulent practices either indefinitely or for a particular period of time by any State/ Central Government/ PSU/Autonomous Body.

We further declare that presently our Company/ firm \_\_\_\_\_ is not blacklisted and not declared ineligible for reasons other than corrupt & fraudulent practices by any State/ Central Government/ PSU/ Autonomous Body on the date of Bid Submission.

If this declaration is found to be incorrect then without prejudice to any other action that may be taken, my/ our security may be forfeited in full and the tender if any to the extent accepted may be cancelled.

Thanking you,

Yours faithfully,

Name of the Organization:

Authorized Signatory:

Seal of the Organization:

Date:

Place:

## Annexure 4

### **Technical Bid format:**

1. Technical Specifications and make
2. Specific terms and conditions (if any)
3. All the technical literature and a list of similar installations done in India should be attached.

**Annexure 5**

**Financial Bid format:**

S. No.	Item	Makes	Specs	Qty	UOM	Unit Price	Cost (in INR, excl GST)
1	Two-Way 6.5" Ceiling Speaker			2			
2	Audio Mixing Console			1			
3	Dual Network-Based Digital Power Amplifier			1			
4	Ultra-Compact In-Ceiling Satellite Loudspeaker			4			
5	Two-Way Wall Mount Loudspeaker			8			
6	Multi-Channel Network-Based Digital Power Amplifier			1			
7	Networked Digital Signal Processor			1			
8	Subwoofer (Single 15 inches)			2			
9	Dual-Channel Network-Based Digital Power Amplifier (1200W)			1			
<b>Total Cost</b>							
<b>GST</b>							
<b>Total Cost (in INR, Incl. GST)</b>							
<b>Total Cost in words (in INR, Incl GST):</b>							