



(N.I.T no. JBNSTS/3-3/2023-24/33 dated 23.08.2023)

JAGADIS BOSE NATIONAL SCIENCE TALENT SEARCH
1300, RAJDANGA MAIN ROAD
KOLKATA - 700107
Tel. : 2442 8270, 24417542

NOTICE INVITING TENDER

Sealed quotations are invited from reputed vendors / suppliers for supplying the following Audio System Setup at our office at 1300, Rajdanga Main Road, Kolkata – 700107. Details are as under as follows:

Sr. no.	Item	No. of Units	Specification
1.	Audio System Setup		Please see <u>Annexure I</u> for detail Quantity and specifications

Other terms and conditions:

- 1. Delivery:** Free of cost at our office at 1300, Rajdanga Main Road, Kolkata - 700107
- 2. Installation:** Free of cost by authorized technician of the company only
- 3. Delivery period:** Within 15 days of the purchase order
- 4. Payment** – Payment shall be made by a/c payee cheque only after successful installation of the machine at our office. All legal deductions shall be made before the final payment
- Bidders are required to mention the brand and model name of the instrument / s clearly in the bid documents.
- Bidders are required to submit unit price inclusive of all taxes and charges like transportation, supervision, mobilization of materials / manpower etc. No extra payment shall be admissible for any reason whatsoever
- Quotations along with a copy of GSTIN regn / trade license / PAN should be submitted in a sealed envelope addressed to “**The Director, Jagadis Bose National Science Talent Search, 1300, Rajdanga Main Road, Kolkata – 700107** at our office at 1300, Rajdanga Main Road, Kolkata – 700107 at any time before the time of closing of the tender.

The last date of submitting quotations is **31.08.2023 upto 12.00 PM (IST)**. The quotations will be opened at **03.00 PM (IST) on 31.08.2023** at our office. Interested parties may remain present at the time of opening quotation.

For further details contact:

Asst. Director (Admin)
Phone: 033- 24417542,



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Annexure I

Technical Specification for the Audio System Setup at JBNSTS (Lecture Hall)		
S.N	Item	Quantity
1	<p>SPEAKER/AMPLIFIRE SITC of SYSTEM TYPE: Powered 12" two-way CABINET: Polypropylene with full steel grille MAX SPL: 127 dB peak FREQUENCY RESPONSE (± 3 dB): 53 Hz – 20 kHz POWER RATING: 1300 watts peak INPUT IMPEDANCE: 10k ohm balanced COVERAGE PATTERN: 90° (horizontal) x 60° (vertical) nominal BLUETOOTH: Audio streaming, Bluetooth version 5.0 DSP: 4 presets, feedback suppression, ducking I/O: 2 XLR/TRS combo mic/line inputs, 1 XLR pass-thru output MOUNTING: 35 mm pole socket APPX WEIGHT: 27.3 lb (12.4 kg) AVAILABLE DIMENSIONS (D x W x H): 11.77 x 15.75 x 24.35 in (299 x 400 x 618.4 mm)</p>	2
2	<p>MOUNTING STAND SITC of Type of Product: Speaker Stand Material: Alloy Steel Weight: 3.5 Kg Color: Black Height: 99-176 cm</p>	2
3	<p>WIRELESS HAND MICROPHONE SITC of Carrier Frequency Range 470–937.5 MHz Working Range 100 m (328 ft) RF Tuning Step Size JB Band: 125 kHz All Other Bands: 25 kHz Image Rejection >70 dB RF Sensitivity –97 dBm at 10-5 BER Latency 3.2 ms High-Pass/Low Cut Filter 150 Hz, –12 dB/octave Audio Frequency Response 20 Hz–20 kHz (+1, –2 dB) Audio Dynamic Range 118 dB Total Harmonic Distortion <0.02% System Audio Polarity XLR: Positive pressure on microphone diaphragm produces positive voltage on pin 2 with respect to pin 3 of XLR output. TRS: Positive pressure on microphone diaphragm produces positive voltage on the tip of the 6.35 mm (1/4-inch) with respect to the ring of the 6.35 mm output. Mic Offset Range 0 to 21 dB (in 3 dB steps) Operating Temperature Range 0 °F to 122 °F (–18 °C to 50 °C) Storage Temperature Range –20 °F to 165 °F (–29 °C to 74 °C) Cartridge Type Dynamic (moving coil) Frequency Response 50 to 16,000 Hz Polar Pattern Super-cardioid Output Impedance 150 Ω Sensitivity –51 dBV/Pa (2.8 mV) 1 Pascal = 94 dB SPL Weight Net: 0.278 kg (0.62 lbs) Connector Three-pin professional audio (XLR), male</p>	2

4	<p>WIRELESS LAPEL MICROPHONE</p> <p>SITC of Carrier Frequency Range 470–937.5 MHz Working Range 100 m (328 ft) RF Tuning Step Size JB Band: 125 kHz All Other Bands: 25 kHz Image Rejection >70 dB RF Sensitivity -97 dBm at 10-5 BER Latency 3.2 ms High-Pass/Low Cut Filter 150 Hz, -12 dB/octave Audio Frequency Response 20 Hz–20 kHz (+1, -2 dB) Audio Dynamic Range 118 dB Total Harmonic Distortion <0.02% System Audio Polarity XLR: Positive pressure on microphone diaphragm produces positive voltage on pin 2 with respect to pin 3 of XLR output. TRS: Positive pressure on microphone diaphragm produces positive voltage on the tip of the 6.35 mm (1/4-inch) with respect to the ring of the 6.35 mm output. Mic Offset Range 0 to 21 dB (in 3 dB steps) Operating Temperature Range 0 °F to 122 °F (-18 °C to 50 °C) Storage Temperature Range -20 °F to 165 °F (-29 °C to 74 °C) Type Electret Condenser Frequency Response 40 Hz to 20,000 Hz Polar Pattern Unidirectional (Cardioid) Output Impedance 2400 Ω Audio Output Level -59.0 dBV/Pa Signal-To-Noise Ratio [1] 55 dB Maximum SPL [1] 1000 Ω load, @ 1% THD 153.0 dB Dynamic Range [1] 114.0 dB Equivalent Output Noise [1] 39 dB Power Requirements +5 V DC (nominal), 10 V maximum (DC bias) Polarity Positive pressure on diaphragm produces positive voltage on pin 3 with respect to pin 1 Cable 1.1 m (45 in.) Connector TA4F Net Weight 72 g (2.53 oz.)</p>	2
5	<p>SYSTEM CONNECTING MATERIALS</p> <p>SITC of PRODUCT Gender: Male (IO-XLR3-M-BK) Female (IO-XLR3-F-BK) Contacts: 3 ELECTRICAL Capacitance Between Contacts: < 2 pF Capacitance Between Contact and Ground: < 2 pF Contact Resistance: < 3 mΩ Insulation Resistance: ≥ 5000 MΩ Dielectric Strength: 1500V @ 60s Current Rating: 15A / 125V AC ENVIRONMENTAL Standard Compliance: IEC 61076-2-103 UL Flammability Rating: UL94V-0 Temperature Range: -40°C ~ +70°C (-40°F ~ +158°F) MECHANICAL Lifetime: > 1000 Mating Cycles Cable O.D.: 3.5mm - 8.0mm Wire size: 2.0mm Max (M) 2.5mm Max (F) Wiring: Solder Contacts Solderability: Complies with IEC60068-2-20 MATERIAL Pins: Brass (Male) Phosphor Bronze (Female) Pin Plating: Silver Push Button: Nickel Plated Zinc Alloy Latch: Tin Plated Stainless Steel Shell: Black (Electro-coated) Zinc Alloy Chuck: POM Boot: Black PVC</p>	1
6	<p>MICROPHONE/LINE CHANNEL MIXERS (STEREO)</p> <p>SITC of 12 Mic/Line channel +2 Stereo channel mixing console. Rugged, stable, high quality analog mixers with user-friendly construction & aesthetically designed side panels. Build in 32-bit digital DSP effect. 3 Band EQ per channel. Dual 7 band GEQ with individual on/off switch. High quality MP3 player with display and direct Recording function. Built-in Bluetooth wireless streaming from smartphones, tablets, and laptops. 12 mic/line(mono) input + 2 stereo input. Dual effect with separate faders available on all channels and groups USB port for MP3, recording and connecting computer with mixer. Each channel with mute, G1-2, G3-4 and Main Switch Smooth premium-quality faders. 3 aux sending and 2 Return Robust metal construction for tour-grade build quality and reliability. Signal & clip LED indication for master level. Peak LED indication per channel. Headphone monitor output. Each channel with individual +48v Phantom switch. Separate switch to change mode from stereo to MP3. Direct subwoofer output jack with gain and tune control nobs. Each channel has gain control, 3 band EQ control, AUX 1,2,3 control, FX control and L/R PAN control. Individual faders for GROUPS Control nobs for Returns, FX1 to AUX1, FX2 to AUX1, FX1 to AUX2, FX2 to AUX2 and headphone. Dual effect with separate faders available on all channels and groups</p>	1