



TENDER NOTICE

The Assistant Registrar (In-Charge), National University of Study and Research in Law Ranchi, At Nagri, P.O.Bukuru, KankePithoria Road, Kanke -834006 invites sealed tenders from reputed contractor for “**Supply, Installation, Testing and Commissioning** of Plenary Hall Sound System, NUSRL, Ranchi.

Contractors with minimum 01 years of experience in Supply & Installation of Sound System my submit tender with specifications, terms and conditions. Last date for submission of tender is 05th July , 2018 by 4 pm.

Scope of work

- (i) .For further information contact the office of the Store & Establishments on week days between 11 am to 5 pm. Necessary specifications at Page 03.
- (ii) Offers may be submitted in two separate sealed envelopes – one containing Profile of the firm (Technical bid) and other with price bids – marked clearly on the top of the envelope.
- (iii) Cost of tender document: The bidders will be required to deposit cost of Tender amounting Rs.1, 000/- (Rupees One Thousand Only) in theform of separate DD in favourof “Registrar, NUSRL, Ranchi” payable at Ranchi. This amount is non-refundable.
- (iv) Tender should be accompanied with a demand draft for Rs. 25,000/-(twenty five thousand) as security deposit, in favour of “Registrar, NUSRL, Ranchi”. The draft will be refunded to unsuccessful renderers and no interest will be paid on this. The draft of the successful renderers will be retained as part of security deposit and will be refunded after successfully completion of one year the work.
- (v) The Tender will be opened at 11 am onwards on 07th July, 2018 in the office of the Registrar. The Tenderers or his representative are allowed to be present at that time.
- (vi) The Work to be completed within 30 days of the order.

The undersigned reserves the right to accept/ reject any of the tender papers.

By the order

Assistant Registrar(In – Charge)
NUSRL, Ranchi



PROFILE OF THE TENDERER

(For Sound System)

- 1) Name of the Firm.....
- 2) Name of the Owner of the Firm.....
- 3) Address.....

- 4) Telephone
No.....Mob.No.....
- 5) DD No.
- 6) DD No.....

Following document must be attached.

1. Copies of Income Tax return.
- 2) Copy of the PAN CARD of the Proprietor/Partner/Company.
- 3) Copy of Registration under Service Tax/ GST
- 4) Details of experience with documentary, evidence.
- 5) Tender based Athorization from OEM must be enclosed with this Tender.

Note: Minor deviation from the specifications as compatible with respective companies will be permissible without compromising the sound quality.

Signature of the Tenderer



PRICE BID

| Sl. No. | Product Description | Tender Specification | UOM | Qty | Rate(Each) | Total Amount |
|---------|-----------------------------------|---|------|-----|------------|--------------|
| 1 | Front Of the House (FOH) Speakers | Supply of 15" Two-way Speaker with one 1-inch titanium compression driver having Frequency Response(-3dB):- 77Hz-18KHz; Frequency Range (-10dB):- 52Hz-20KHz & Long Term Power Handling of ≤ 400W (at a Nominal Impedance of 8Ohms). The Loudspeaker should have a Max. SPL of >131dB.The Sound Dispersion should be at least 85° x 60°. The speaker should be made of at least 13 mm plywood & should have at least 8 suspension points for permanent install. (Makes: Harman/ Bose/ Bosch) | Nos. | 2 | | |
| 2 | Floor Subwoofers | Supply of 18" Subwoofer with a Frequency Response(-3dB):- 50Hz-90Hz; Frequency Range (-10dB):- 35Hz-250Hz ; Axial Sensitivity > 95dB & Long Term Power Handling of ≤ 400W (at a Nominal Impedance of 8 Ω). The Loudspeaker should have a Max. SPL of >133dB. (Makes: Harman/ Bose/ Bosch) | Nos. | 4 | | |
| 3 | Front Fill Speakers | Supply of Wall mountable 2 way speaker, consisting of two 5.25" or better LF drivers & one 1 "or better HF driver, frequency response (-10 dB) : 62 – 19 KHz., sensitivity (SPL 1W/1M) > 93 dB with max SPL of >117 dB , Long term program power handling capacity ≤ 300W (at nominal impedance of 8 Ω) , coverage (H x V) 90° x 70° or better, with OEM bracket included. (Makes: Harman/ Bose/ Bosch) | Pair | 1 | | |
| 4 | Delay Fill Speakers | Supply of Wall mountable 2 way speaker, consisting of two 5.25" or better LF drivers & one 1 "or better HF driver, frequency response (-10 dB) : 62 – 19 KHz., sensitivity (SPL 1W/1M) > 93 dB with max SPL of >117 dB , Long term program power handling capacity ≤ 300W (at nominal impedance of 8 Ω) , coverage (H x V) 90° x 70° or better, with OEM bracket included.(Makes: Harman/ Bose/ Bosch) | Pair | 1 | | |
| 5 | Powered Stage Monitors | Supply of 12" Two-way Powered Speaker with one 1.5" HF Titanium Diaphragm compression driver with a Frequency Response(-3dB):- 68Hz-18KHz & In built Power amplifier of 1000 W or better. The Loudspeaker should have a Max. SPL of >125dB.The Sound Dispersion should be 90x55 Degrass or better. The speaker should have both built in line level inputs. It should have polypropylene enclosure.(Makes: Harman/ Bose/ Bosch/ Equivalent Brand) | Nos. | 2 | | |
| 6 | Amplifier for FOH Speakers | Supply of 2 channel class D/H Power amplifier with built in Audio Digital Signal Processor, a Maximum Output Power ≥ 900W@8 ohms, ≥ 1750W@4 Ohms for single channel operation;Max Bridged Output Power ≥ 5500W @ 4 ohms,Frequency Response (+/- 1dB) ref. 1 KHz:15Hz - 20 KHz,Max input level:+21dBu,Crosstalk< - 80dB,input impedance:20kohm,signal to noise ratio >109 dB,with built in Digital Signal processor like - 31 Band Graphic Equalizer per channel, Parametric Equalizer per channel, Output delays, Audio Limitters, Audio Filters (Makes: Harman/ Bose/ Bosch) | Nos. | 1 | | |
| 7 | Amplifier for Subwoofers | Supply of 2 channel class D/H Power amplifier with built in Audio Digital Signal Processor, a Maximum Output Power ≥ 900W@8 ohms, ≥ 1750W@4 Ohms for single channel operation;Max Bridged Output Power ≥ 5500W @ 4 ohms,Frequency Response (+/- 1dB) ref. 1 KHz:15Hz - 20 KHz,Max input level:+21dBu,Crosstalk< - 80dB,input impedance:20kohm,signal to noise ratio >109 dB,with built in Digital Signal processor like - 31 Band Graphic Equalizer per channel, Parametric Equalizer per channel, Output delays, Audio Limitters, Audio Filters (Makes: Harman/ Bose/ Bosch) | Nos. | 1 | | |



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|----|--|---|------|---|--|--|
| | Amplifier for Front fill & Delay Fill Speakers | Supply of 2 channel class AB Power amplifier with built in Audio Digital Signal Processor, a Maximum Output Power $\geq 330W@8$ ohms, $\geq 650W@4$ Ohms; Max Bridged Output Power $\geq 1800W @ 4$ ohms, Frequency Response (+/- 1dB) ref. 1 KHz:15Hz - 20 KHz, Max input level: +21dBu, Crosstalk < - 80dB, input impedance: 20kohm, signal to noise ratio >103 dB, with built in Digital Signal processor like - 31 Band Graphic Equalizer per channel, Parametric Equalizer per channel, Output delays, Audio Limiters, Audio Filters (Makes: Harman/ Bose/ Bosch) | Nos. | 1 | | |
| 9 | Vocal Microphone | Supply of Corded Vocal Microphone with Dynamic Neodymium Magnet microphone element, with frequency response 80Hz-16kHz, Super-Cardioid polar pattern, sensitivity of 2.2mV/Pa and output impedance 600 ohm (Makes: Harman/ Bose/ Bosch) | Nos. | 2 | | |
| 10 | Instrument Microphone | Supply of Corded Instrument Microphone with Self Biased condenser microphone element, with frequency response of 55Hz-16kHz, Cardioid polar pattern, sensitivity of 5.5mV/Pa, rated impedance of 200 ohm, maximum spl :130dB SPL and dynamic range ;107dB (Makes: Harman/ Bose/ Bosch) | Nos. | 2 | | |
| 11 | Podium Microphone | Supply of Freestanding Gooseneck Mic with base for podium having dual condenser back electret microphone element, Selectable Omnidirectional/ Cardioid/ Supercardioid/ Hyper Cardioid polar pattern, LED status display and with programmable button for Push to Talk or Push to Mute functions having, frequency response 50Hz-20kHz, sensitivity 5.5mV/Pa, clipping level >125dB SPL, output impedance 200 ohm, Dynamic Range > 100 dB. (Makes: Harman/ Bose/ Bosch) | Nos. | 2 | | |
| 12 | Wireless Handheld Microphone | Supply of Handheld Wireless Mic with Cardioid polar pattern for transmitter, Dynamic microphone with Neodymium magnet, Receiver frequency response 80Hz-18kHz, Receiver RF sensitivity < 1.0 μ V, Receiver Image rejection >55dB, Receiver Dyanmic range >95dB and receiver having 32 channels possible, Receiver S/N ratio >100dB A, distortion <1 %, Transmitter sensitivity - 3.2 mV/Pa, modulation: +/- 40kHz (Makes: Harman/ Bose/ Bosch) | Nos. | 2 | | |
| 13 | Antenna for Wireless Microphone | Supply of 1/2 wave flex antenna, 610-710 mhz (Makes: Harman/ Bose/ Bosch) | Nos. | 4 | | |
| 14 | 12 Channel Analogue Type Mixer | High-Performance 12-input small format analogue mixers with onboard effects, Iconic Ghost mic preamps with ultra-low noise performance, British EQ with sweepable mid-bands per channel, Effects Engine featuring award-winning Reverbs, Delays, Choruses and Modulations, Limiters (High-ratio Compressors) on input channels, 2-in/2-out USB audio playback and recording* Switchable Hi-Z inputs for guitars, basses and other instruments, Hi-Pass Filters (low-cut) and 48V Phantom Power on all mic channels, Comprehensive GB Series audio routing, Smooth premium-quality faders, Robust metal construction for tour-grade build quality and reliability, Internal universal power supply; (Makes: Harman/ Bose/ Bosch) | Nos. | 1 | | |
| 15 | Stage Patch Box & Connectors | Required Stage Patch Box for the installation of the upper stated hardwares for the fulfillment of the solutions and the set of connectors as required | Set | 1 | | |
| 16 | Mic Stand | Standard Mic stand for Mics | Nos. | 6 | | |
| 17 | 12 U Rack | Standard wall Mount 12U Network Rack with Dimension 600 x600 with 2 Nos. of Fan, PDU, Cable Manager and all other Accessories. Approved Make- Valrack/Legrand/Rittal | | 1 | | |
| 18 | Base Box for Mixer | Wooden Arrangement to up keep the Mixer at Bootom of the Dias | Nos | 1 | | |



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|----|----------------------------|--|-------|-----|--|--|
| | Wooden Podium | Wooden Podium of Standard Size for Mic | Nos | 2 | | |
| 20 | Speaker Cable | 2.5 Sq.MM Unarmoured Flexible Speaker Cable | Mtrs. | 300 | | |
| 21 | Mic Cable | 3 Core 1.5 Sq.MM PVC Sheted Flexible Mic Cable | Mtrs | 50 | | |
| 22 | PVC Conduit | 25 MM x1.5 MM PVC Conduit ISI Marked | Mtrs | 150 | | |
| 23 | Full HD LED Panel | 55" LED Full HD Panel with Resolution(1920x1080) 16:9,Pixel Pitch (mm)-0.21(H)x 0.63(V),Active Display Area-1209.6(H)x680.4(V), Brightness-350NIT,Contrast Ratio-5000:1, Viewing Angle- 178(H)x178(V), Input-{{(RGB-D Sub, DVI-D),(Video-HDMI1,HDMI2,CVBS),(Audio-Stereo Mini Jack,RGB, DVI,HDMI,AV,Component,Audio(Common), (USB-2.0X1)),Output Audio-Stereo MiniJack, External IR Sensor,Speaker-Built-In 10W X2; Approved Make- Samsung/ Sony/Toshiba | Nos. | 2 | | |
| 24 | LED Panel Mount | Swivel VESA Mount for LED Panel | Nos | 2 | | |
| 25 | Projector | Projector: 4,300 lumens WXGA high brightness compact projector Display System: 3 LCD system Size of effective display area: 0.75"(19mm) x 3 BrightEra LCD Panel Aspect ratio 16:10 Number of pixels : 3,072,000 (1280x800 x 3) pixels Throw Ratio :1.10:1 to 1.79:1 Zoom – Ratio : Approx. x 1.6 Contrast ratio (full white / full black) 20000:1 *2 Speaker: Speaker 16 W (monaural) INPUT A : RGB / Y PB PR input connector: Mini D-sub 15 pin female Audio input connector: Stereo mini jack INPUT B: RGB input connector: Mini Dsub 15 pin female Audio input connector: Stereo mini jack INPUT C: HDMI input connector: HDMI 19-pin, HDCP support Audio input connector: HDMI audio support INPUT D: HDMI input connector: HDMI 19-pin, HDCP support Audio input connector: HDMI audio support S VIDEO IN : S Video input connector: Mini DIN 4-pin VIDEO IN: Video input connector: Phono jack OUTPUT : MONITOR output connector: Mini D-sub 15 pin female Audio input connector: Stereo mini jack LAN : RJ-45, 10BASE-T/100BASE-TX USB: Type-A & Type-B MICROPHONE IN: Microphone jack: Mini Jack Display resolution: Maximum display resolution: 1600 x 1200 dots, fV:60Hz Screen size : 30" to 300" (0.76 m to 7.62 m) (measured diagonally) (Makes: Epson/Hitachi/NBC/ Equivalent Brand) | Nos | 1 | | |
| 26 | Motorized Projector Screen | High Gain 10' x 8' Motorized Projector Screen with 4:3 Aspect Ratio; Approved Make- Liberty/DaLite/Drapper | Nos | 1 | | |
| 27 | | HDMI bidirectional RS232 and IR over high definition base1,Make-Krammer/Crestron/Key Digital | Nos | 5 | | |
| 28 | | 1:2 HDMI distribution amplifier, Make- Krammer/Crestron/Key Digital | Nos | 1 | | |
| 29 | | Passive wall plate VGA+Audio and HDMI, Make-Krammer/Crestron/Key Digital | Nos | 1 | | |
| 30 | | HDCP compliant presentation switcher, Make-Krammer/Crestron/Key Digital | Nos | 1 | | |
| 31 | | Required HDMI Cables, UTP CAT 6 Cables & Connectors for AV Integration | Set | 1 | | |
| 32 | I&C | Installation & Commissioning Charges | LS | 1 | | |