

All Communication to be addressed
to the Director, NEIST.
With Attn: Stores & Purchase Officer

Tel; 0376 – 2372710 Fax: 2372921
Email: spopur@rrljourhat.res.in



NORTH-EAST INSTITUTE OF SCIENCE AND TECHNOLOGY
(Formerly Regional Research Laboratory)
(Council of Scientific & Industrial Research)
JORHAT-785 006, ASSAM, INDIA

BY COURIER SERVICE / FAX

File No.1(PEQ)/430/10-11/PUR / T - 108 Date 28.02.2011

Note: Please send your quotation in sealed cover on or before 16.03.2011 up to 2.30 P M and Opened on 16.03.2011 at 3.00 P M.

M/s

Dear Sirs,

Kindly arrange to send your offer in a **sealed cover under TWO BID SYSTEMS (Part I- TECHNICAL BID & Part-II COMMERCIAL BID)** before opening date & time quoting this office file reference to the terms & conditions overleaf:

COMPLETE AUDIO & VIDEO SYSTEM FOR N E I S T's AUDITORIUM ON TURNKEY BASIS

Sl. No.	Item	Detailed Specifications of the Stores (AUDIO SYSTEM)	Qty.
1	Front Speakers	15" 2 way High Definition Powered Speaker 1600W of efficient class D- recovery amplification Lf amp: 700W RMS/1400 peak HF amp: 100W RMS/ 200 peak Custom Designed transducer by EAW 15" neodymium woofer with 3" voice coil 1.75" compression driver with heat-treated titanium diaphragm User adjustable 3-band contour EQ with sweep able mid frequency 12 integrated fly points for horizontal and vertical rigging using M10 threaded eyebolts Rated THD: <0.03% Cooling: Convection Extrusion	2 Units
2	Monitor Speakers	2 Way bi amplified, optimized powered loudspeaker system 400W peak of ultra-efficient fast recovery Amplification LF: 300W peak power class D HF: 100W peak power 15" high precision woofer 1" compression driver User adjustable 3 band contour EQ with sweep able mid frequency Horizontal Coverage Area: 90 degree Vertical Coverage Area: 60 degree	2 Units
3	Sub Woofer	18" High Definition Powered Subwoofer System 1800RMS/1600 peak of efficient Class D fast recovery amplification 18" Woofer Symmetrical Linkwitz –Riley crossover (100 Hz, 24dB/octave) Dual XLR inputs, full range and high band pass outputs for mono or stereo setups Integrated limiting and protection circuitry	2 Units

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4	Surround Speakers	2 Way bi amplified, optimized powered loudspeaker system 400W peak of ultra efficient fast recovery Amplification LF: 300W peak power class D HF: 100W peak power 15" high precision woofer 1" compression driver User adjustable 3 band contour EQ with sweep able mid frequency Horizontal Coverage Area: 90 degree Vertical Coverage Area: 60 degree Crossover Type: 24 dB/ octave Crossover Freq: 3 KHz	8 Unit
5	Mixer	16 Channel 4 bus compact mixer designed for live sound High headroom Mic preamps with RF rejection 32 bit digital effects with 9 reverbs, 4 delays, phaser, chorus, flange; 2 parameter controls + EFX wide spatial expander External and Internal EFX sends EFX to Monitor Control 9 band stereo graphic equalizer Inserts on all mic channels and main mix 4 Bus with direct sub outs and L/R assigns 2 Pre/ Post aux Sends and Internal/external FX level send on each channel 3 band EQ with swept mid (100Hz to 80 KHz) on mic/ line channels 4 band EQ with on stereo channels Pan, mute, pfl, solo on each channel Insert and 100 Hz low cut filters on all Mics/line channels Subwoofer output from built in 18 dB/oct. 75 Hz crossover Ingenious break switch	1 Unit
6	Sound Processor	Input: Active Balanced, 18 k ohms Max Input Level: +20dBu, Input Gain: Range +12/-40dB, 0.1dB Output: Active Servo Balanced, 100 ohms Max Output Level: +20dBu Crossover Low Pass Filter Slope 12, 18, 24 and 48dB/Octave Output Gain Range +12/-40dB, 0.1dB Increments Polarity: 0 or 180 degrees THD: <0.01% @1 KHz, +20 Dynamic Range: >110 dB (20 Hz-20 KHz) unweighted Parametric EQ Bandwidth: 1/64th Octave to 4 Octave Parametric EQ Range: +15/-30dB, 0.1 dB incr Frequency Resolution: 1/24th octave High-Shelf EQ Frequency Range: 19.7Hz to 2 KHz High-Shelf EQ Range: +/-15dB, 0.1dB incr Low-Shelf EQ Slope: 6 or 12dB/Octave Low-Shelf EQ Frequency Range: 3.189KHz to 20.159KHz Low-Shelf EQ Range: +/-15dB, 0.1dB incr Maximum Input Delay: 682ms, 20uS incr Maximum Output Delay: 682ms, 20uS incr Delay Increment: 20uS Crossover High Pass Filter Slope: 12, 18, 24 and 48dB/Octave Compressor/Limiter Range: 20Hz to 10.6KHz	1 Unit

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7	Wireless Microphone (Handheld)	<p>Operating Frequencies UHF band, 542.125 MHz to 561.250 MHz Number of Channels: 8. Frequency Stability: $\pm 0.005\%$, Phase Lock Loop frequency control. Modulation Mode: FM. Maximum Deviation: ± 25 kHz. Operating Range: 200' typical. Operating Temperature Range: 40° F (4°C) to 110° F (43°C). Frequency Response: 100 Hz to 12 kHz.</p> <p>RECEIVER SPECIFICATIONS: Receiving System: Antenna - switching diversity. Image: 55 dB minimum. Rejection Signal - to - noise Ratio: >80 dB at 10 kHz deviation (IEC - weighted), maximum deviation 25 kHz. Total Harmonic $\leq 1\%$ (10 kHz deviation at 1 kHz). Distortion Sensitivity: 25 dBμV (S/BN 60 dB at 10 kHz deviation, IEC-weighted. Audio Output Unbalanced: 211 mV)-13.5 dBV) (1 kHz modulation, 10 kHz deviation). Balanced: 150 mV (-16.5 dBV) (1 kHz modulation, 10 kHz deviation). Output Unbalanced: 1/4" TS ("mono") phone jack. Connectors Balanced: XLRM-type.</p>	7 Units.
8	Wireless Microphone (Lapel)	<p>RECEIVER SPECIFICATIONS: Receiving System: Antenna - switching diversity. Image Rejection: 55 dB minimum. Single - to - noise Ratio: >80 dB at 10 kHz deviation (IEC-weighted), maximum deviation 25 kHz. Total Harmonic Distortion: $\leq 1\%$ (10 kHz deviation at 1 kHz), Sensitivity: 25 dBμV (S/N 60 dB at 10 kHz deviation, IEC-weighted). Audio Output Unbalanced: 211 mV (-13.5 dBV) (1 kHz modulation, 10 kHz deviation) Balanced: 150 mV (-16.5 dBV) (1 kHz MODULATION, 10 KhZ deviation). Output Unbalanced: 1/4" TS ("mono") phone. Connectors: Jack Balanced: XLRM type.</p> <p>BODY-PACK TRANSMITTER SPCIFICATIONS: Dynamic Range: >100 dB, A-weighted. Input Connections: High impedance, low impedance, bias. Battery Life: Approximately 8 hours.</p> <p>HANDHELD TRANSMITTER SPECIFICATIONS: .RF Power Output: 10 mV. Spurious Emissions: Under federal regulations. Dynamic Range: >100 dB, A-weighted. Microphone Element: Dynamic, unidirectional. Battery Life: Approximately 12 hours.</p>	2 Units.
9	Gooseneck Microphone With Podium (Matelic) and Interactive Device	<p>Goose neck Microphone, LED Light, Interactive Attachment (Operating Area: 15.4" diagonal sensor type MEMS /2, Infrared type IRDA/1, resolution 600dpi, Note Taking Support, Connecting type USB, Virtual Working Space: A4-A5, Operating Power: DC5V (USB), Size: 8.5/77/58 mm, Class: PMPB-01, Battery type: LR41 Cell, Sampling Rate: Over 70Hz, Podium: Metallic Body with Powder Coated Paint. Strong Platform Base to hold Laptop.</p>	2 Sets
10	Wired Microphone	<p>Polar pattern: supercardioid Sensitivity: 2.5 mV/Pa Impedance: 300 ohms Finish: Zinc/alloy diecast</p>	2 Units
11	Bracket for Surround Speaker	<p>Matelic Bracket for Fixing the Speakers on to the Wall. Factory Finished Black Color powder Painted with all fitting Materials</p>	4 Sets
12	Hanging Clamp for Front speakers	<p>Stainless Steel string with 100 MM eyebolts. Provision for hanging the speakers angularly on the front of the stage</p>	2 units

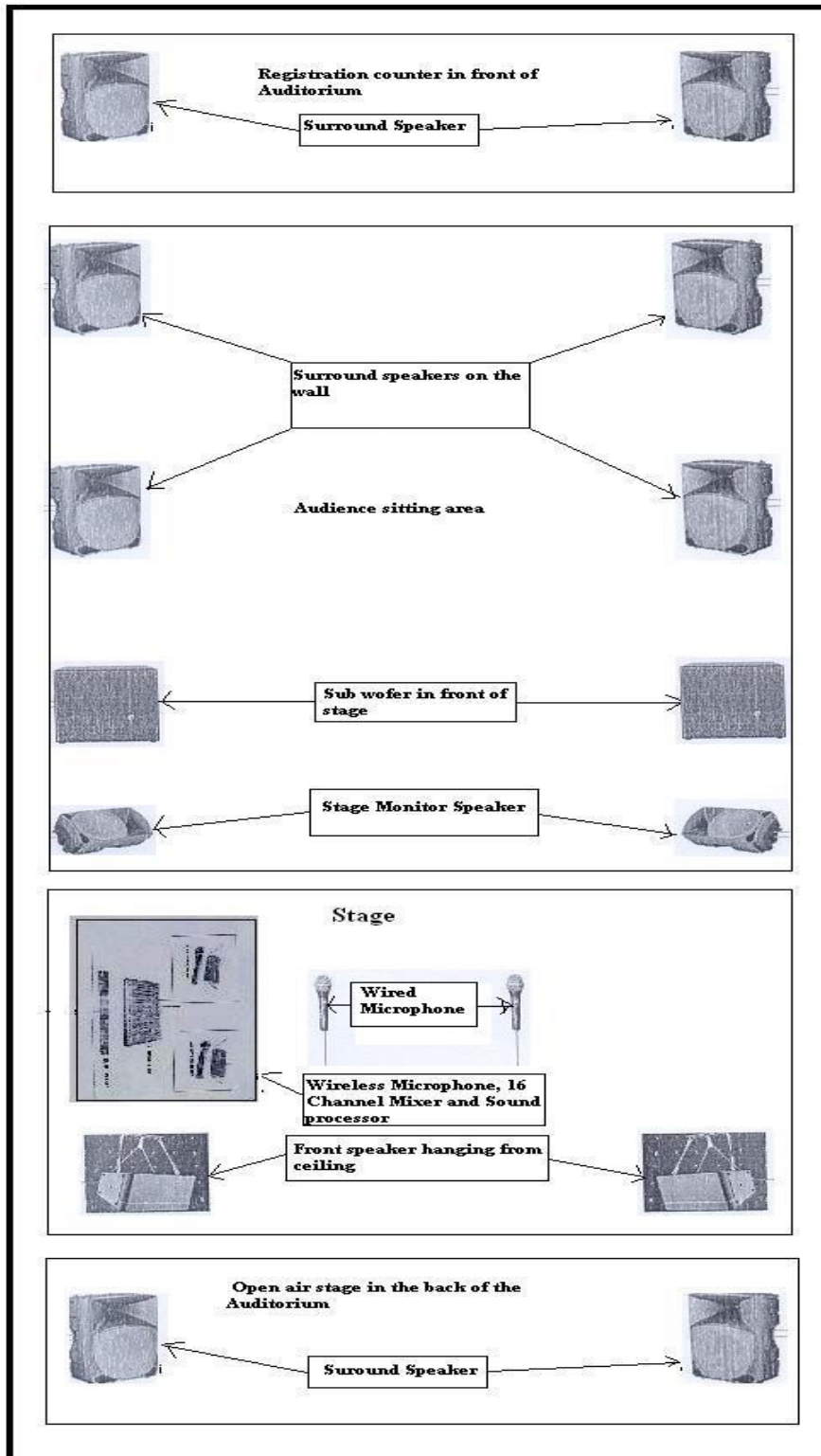
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13	Mic cable	High grade professional and low noise Microphone Cable from reputed company	9 Coils
14	Power Cable	3 Core, ISI mark power cable from reputed Manufacturer	2 Coils
15	XLR Jack	High Quality XLR Jack. Imported Quaity	35 Units
16	Stereo EP and RCA Connector	Imported Quality	12 Unit
17	Face Plate	XLR male. 12 Channel	2 Unit
18	Installation	Installation, Testing, Commissioning, Integration and Training	1 Job

Note: *The system should be integrated with the existing visual set-up and video conferencing system that may be coming-up later.*

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Audio Setup



Specifications for VIDEO SYSTEM

Sl. No.	Item	Specifications	Qty
1	Visual Projection System (with Ultra Short Throw Lens)	Resolution: XGA (1024x768) Brightness: 2700 ANSI Lumens Panel System: 0.55 inch DMD single chip Projection Lens (inch): F2.6 f=0.27" Throw Ratio: 0.609:1 Throw Distance (feet): 1.64 – 12.47 80-inch image from a distance of 39 inch. Inputs: Computer, HDMI, S-Video,RJ45, Video, Computer Audio	2 Units
2	Motorized Projection Screen	High Gain Matt White Finish Fabric with back side black Size: 52"x70" (approx) With Wired and Wireless remote control.	2 Units
3	Motorized projection Screen	High Gain Matt White Finish Fabric with back side black Size: 9'x11' (aprx) With Wired and Wireless remote control.	1 Unit
4	Blue Ray Player	BD-ROM Playback (Single, Dual Layer) BD-R/RE Playback BDMV/BD-RE v3.0 (SL/DL) BDMV/BD-R v2.0 (SL/DL) DVD Video Playback DVD-R/RW (Video Format) Playback DVD+R/RW Playback CD-R/RW Playback CD (CD-DA) Playback SA-CD (SA-CD/CD) Playback JPEG Playback (BD-R/RE/DVD+RW/+R/-RW/-R/CD-R,RW) MP3 Playback (BD-R/RE/DVD+RW/+R/-RW/-R/CD-R,RW) AVC-HD 8cm/12cm DVD Playback 24p True Cinema Full HD 1080p x.v.Colour Deep Color Precision Cinema HD Upscale PhotoTV HD Preset Picture Mode Noise Reduction Audio D/A Converter 192kHz/24bit Noise Reduction Audio D/A Converter 192kHz/24bit DTS-HD Master Audio Decoding	1 Unit.

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4		<p>Dolby True HD decoding DTS-HD Master Audio Bit-Stream Out Dolby TrueHD bit-stream output LPCM (2ch / 6ch / 8ch) thru HDMI Analog (2ch / 5.1ch / 7.1ch) / - / - DSD output DTS bit-stream out Dolby Digital bit-stream out HDMI Output x 1 Component Video Output x 1 Composite Video Output x 1 Digital Audio Output: Coaxial x 1 Digital Audio Output: Optical x 1 Analog Audio Output 2ch Ethernet Port USB Port x 2 (Front, Rear) Quick Setup AV Sync Play / Stop / Pause Repeat (All/A-B/1title/1Chapter/1Track) Step FW/REV Child Lock (Tray Lock) Audio/Video Bit Rate Indicator Start up screen Wi-Fi capability USB Wi-Fi Ready DLNA (Photo JPEG) BD-Live Bonus View Power Requirements 110-240V, 50/60Hz</p>	
5	Wireless Attachment	<p>RGB Output: 15 pin D-Sub Audio Out: 3.5 mm stereo out Network: RJ 45 Network: Reverse SMA antenna Power: DC in jack Wireless: 802.11b/g (54mbps) Datalink Protocol: 802.11b, 802.11g Data transfer Rate: 108 Mbps Line Coding Format: DBPSK, DQPSK, CCK, OFDM Frequency Band: 2.4 GHz Features: 64/12 bit encryption, DHCP Support, Access Point Operational Mode Range Indoor: 100M Wired: 10/100M fast Ethernet for LAN and WAN</p>	1 Unit

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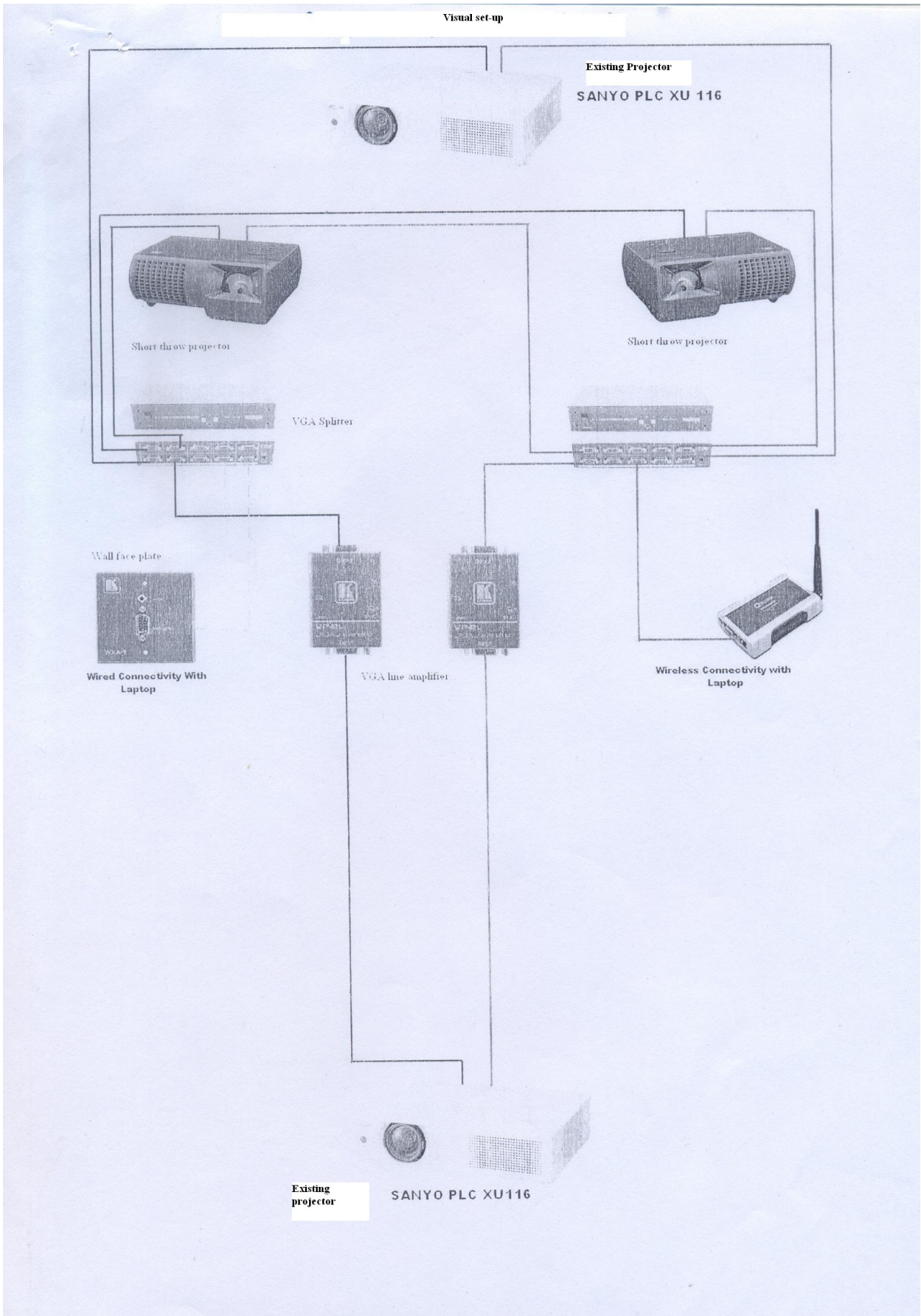
		Management: Web Based Configuration & Management Conference Control, gate Keeper Resolution: Graphics- 1024x768 up to 15 fps Video: 1080 up to 30 fps Color Depth: 16/32 bit OS: Win XP Pro, XP Home, Win 2000, Vista	
6	AV Switcher	Input: 4 analog red, green, blue signals -0.7 Vpp/75Ω, H&V sncs, TTL level on HD15F connectors. 4 balanced audio stereo signals, +4dBm/33K on detachable. BANDWIDTH: VIDEO: 440MHz; AUDIO 100 KHz CONTROL: Touch Switches, Rs232,RS-485 MAX VIDEO OUT: 2.6Vpp MAX AUDIO OUT: >25dBm AUDIO CROSSTAL @ 20KHz: -81dB AUDIO THD+ NOISE: 0.031% 2 nd Harmonic: 0.02% OUTPUT: 4 analog red, green, blue signals -0.7 Vpp/75Ω, H&V Sync, TTL level on HD15F connectors, 4 balanced audio stereo signals, +4 dBm/50Ω on detachable DIF Gain: 0.05% POWER SOURCE: 230VAC,50/60Hz Audio Break way Switching. HDTV Compatible	1 Unit
7	VGA Distribution Amplifier	INPUTS: Video: 1 XGA on a 15-pin HD (F) connector; Audio: 1 unbalanced stereo audio on a 3.5mm mini jack; 1 balanced stereo audio on a 5-pin terminal block connector. OUTPUTS: Video: 6 XGA on 15-pin HD (F) connectors; 1 RJ-45 connector; Audio: 6 unbalanced stereo audio on 3.5mm mini jacks; 6 balanced stereo audio on 5-pin terminal block connectors. MAX. OUTPUT LEVEL: Video: 1.7Vpp; Audio: 26Vpp. BANDWIDTH (-3dB):Video: 500MHz (15-pin HD); Audio: >100kHz. DIFF. GAIN: 0.09%. DIFF. PHASE: 0.01Deg. K-FACTOR: <0.05%. S/N RATIO: Video: 72dB; Audio: 88dB. CONTROLS: XGA: 0 to +10dB EQ. @50MHz; Audio: 0 to +9.9dB level. COUPLING: Video: DC; Audio: Input: AC, Output: DC. AUDIO THD +NOISE:0.015%. AUDIO 2ndHARMONIC:0.004%. POWER SOURCE: 230V AC, 50/60Hz	2 Unit
8	Video Splitter	Input: RCA x 1, Output: RCA X 4, With Gain control.	1 Unit
9	Video Splitter	Input: RCAx1, Output: RCAx2, With Gain Control	1 Unit

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10	Line Amplifier	Input: 1 XGA on HD15F Connector Output: 1 XGA on an HD 15F Connector Max output Level: 1.5 Vpp Resolution: up to UXGA Diff Gain: 2.7% S/N ratio: 76 dB Control Level: -7.4 dB to +4 dB Coupling; DC Accessory: power Supply	3 Units
11	Wall Face Plate	Inputs: 1x15 pin HD-15 VGA, 1x Mini Phones Stereo Audio Line Out	4 Unit
12	RCA Connectors	Branded Company with international standards. Metallic Finish for High Conductivity	16 Pcs.
13	VGA Connector	Metallic Finish High Quality 15 Pin. Imported Quality	26 Pcs.
14	RGB Cable	3+6 Core High Grade Professional RGB/VGA Reel Cable.	5 Coil
15	Video	High Grade Professional Twisted pair Video Cable	4 Coil
16	Power cable	ISI Mark 3 Core Heavy Duty	2 Coil
17	Ceiling Mounting Kit	Static Type, 3 feet column fixing	2 Unit
18	Installation, Testing and Commissioning	Installation, Integration, Testing, Commissioning & Training	APR

Note: *The system should be integrated with the existing audio set-up and video conferencing system that may be coming-up later.*

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TERMS & CONDITIONS

The Quotation/Proforma Invoice should show the following information and also accompany the relevant technical literature:

1. Director, NEIST, JORHAT invites sealed bids separately for each item in two parts (Techno commercial Unpriced & priced bid)

Interested Bidders may obtain further information from the office of the **Stores & Purchase Officer, NEIST, JORHAT, ASSAM.**

3) SPECIFICATIONS: Specifications are basic essence of the product. It must be ensured that the offers must be strictly as per our technical specifications. At the same time it must be kept in mind that merely copying our specifications in the quotation shall not make the bidder eligible for consideration of the quotation. A quotation has to be supported with the printed technical leaflet/literature of the quoted model of the item by the bidder/manufacturer and the specifications mentioned in the quotation must be reflected / supported by the printed technical leaflet/ literature. Therefore the model quoted invariably be highlighted in the leaflet/literature enclosed with the quotation. Non-compliance of the above shall be treated as incomplete/ambiguous and the offer can be ignored without giving an opportunity for clarification/negotiation etc., to the quoting party.

4) PRICES: a. The prices quoted should clearly indicate whether FOB/CIF etc., In case, the prices are quoted in foreign currency, it must be on FOB price.

b. In case of domestic, the offer should contain the basic price and percentage of Excise Duty separately since we are exempted from payment of Excise Duty.

5) TAXES: The percentage rate of sales tax, resale tax, VAT, duties/levies and any other charges etc, should be clearly indicated in the tender, wherever chargeable. The packing charges must also be indicated separately.

6) CUSTOMS AND EXCISE DUTIES: Our Institution is eligible from payment of concessional custom duty and exempted from payment of excise duty vide Government notification No: 51/96-Customs dated: 23rd July 1996 and Central excise duty exemption in terms of notification 10/97 Central Excise dated 01st March 1997.

7) PAYMENT:

■ **80%** payment will be made after receipt of material in good working condition and satisfactory inspection, balance **20%** after satisfactory installation / commissioning / demonstration.

8) All foreign bank charges shall be borne by the supplier.

9) INCOTERMS:

All terms used in the Supply order/contract will have the meaning as described in the **"INCOTERMS-2000"**.

10) Please indicate the name and address of your Indian Agent. Please also indicate the amount of Agency Commission payable to your Indian Agent which will be paid to them in equivalent Indian Currency after the receipt of the consignment in good condition at our Stores and in case of equipment after the satisfactory installation and commissioning. Indian Foreign Exchange & Regulations Act do not permit the Foreign Bidders to include Indian Agency Commission, discount or like rebates allowed in their quoted FOB value, payable to their Indian Agents directly by them in their currency. Such commission, discount etc. if any must be reflected in your offer so that the same can be deducted by us from the quoted FOB value.

11) Details of services to be rendered by your Indian Agent.

12) Indicate the names of the Indian reputed Organizations where you have supplied the similar equipment and may attach the satisfactory performance report of the equipment from users.

13) If you have supplied identical or similar equipment to other CSIR/Labs/Instt., the details of such supplies for the preceding three years should be given together with the prices eventually or finally paid.

14) Fax/e-mail tenders will not be considered.

15) Delivery period & Detailed Terms including period of warranty.

16) Please do confirm that service manual shall be supplied along with the supply of material.

17) Installation, Commissioning and satisfactory Demonstration of the whole System and Training should be free of cost.

18) Conditional discount will not be considered

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- 19) Part shipment will not be allowed.
20) The offer should be valid for **90 days**.
21) Late / delay Quotation received after due date will be rejected summarily.
22) The Installation, Commissioning and Demonstration of the system should be completed within two weeks from the date of arrival of the items at NEIST, JORHAT. (The place of installation will be communicated later).
23) Kindly indicate the approximate dimensions & weight of the stores/consignment:
(a) Measurement; Tare Weight; Net weight
24) Freight & Insurance will be arranged by our Clearing Agent whose address will be communicated while placing Order.
25) FOB Rates must be given for any of the following Gateway International Airports.

	<u>COUNTRY</u>	<u>GATEWAY</u>	<u>INTERNATIONAL AIRPORT</u>
Germany	Frankfurt	Australia	Sydney
Japan	Tokyo	Austria	Vienna
Hongkong	Hongkong	Belgium	Brussels
UK	London	Denmark	Copenhagen
USA	New York	Netherlands	Amsterdam
Switzerland	Zurich/Geneva	Canada	Toronto
Singapore	Singapore (Changi Airport)	Italy	Rome/Milan
France	Paris	Korea	Seoul

- 26) **Acceptance quotation: The acceptance of quotation will rest with the DIRECTOR, NEIST, JORHAT who does not bind himself to accept the lowest quotation and reserves the right to himself to accept or reject partially the quotations received, without any assigning any reason whatsoever.**

NOTE: THIS IS ONLY AN ENQUIRY AND HENCE PLEASE DO NOT DESPATCH THE GOODS UNTIL YOU RECEIVE A FIRM PURCHASE ORDER

STORES & PURCHASE OFFICER