



भारतीय सूचना प्रौद्योगिकी संस्थान, इलाहाबाद Indian Institute of Information Technology, Allahabad

An Institute of National Importance by Act of Parliament
Deoghat, Jhalwa, Allahabad-211015 (U.P.) INDIA

Ph.: 0532-2922025, 2922067, Fax : 0532-2430006, Web : www.iiita.ac.in, E-mail : contact@iiita.ac.in

Ref no. IIIT-A/ENQ/FIP/331/202/2018

Date: 27/06/2018

TENDER NOTICE

1. Sealed tenders are invited under **Two Bid Systems** for the **Supply, Installation, commissioning and testing of Sound at Auditorium** at Indian Institute of Information Technology, Allahabad. The detailed specifications and terms & conditions are given in **Annexure I, II, III, IV, V, VI, VII, VIII, IX, X, XI, XII, XIII, XIV, XV, XVI, XVII**. Tender document may be downloaded from the Institute website www.iiita.ac.in.”
2. Tenderers are requested to submit the quotation by courier/speed post with complete details of specifications, terms & conditions, warranty/guarantee etc. Quotation should be in two separate sealed envelopes "Technical Bid" and "Commercial Bid" and placed in a single envelope with name of the tender, ref. number and closing date subscribed on the top of the envelope addressed to the Faculty In-charge Purchase, IIIT-Allahabad **upto - 19/07/2018, 12:00 Noon**. Quotations duly sealed may also be dropped in the tender box placed in the office of the Faculty In-charge, Purchase, IIIT-Allahabad. Basic rate, taxes and other charges if applicable etc. must be quoted separately, F.O.R. destination at IIIT-A, Jhalwa, Allahabad. Please note that tender document will not be accepted after the expiry of stipulated date and time for the purpose.
3. Details of Bank account of Firm for returned of EMD and/or Performance Security

Bank's Account Holder Name:.....

Type of Account Name:.....

Address of Branch:.....

Account No.:.....

IFSC Code:.....

4. **E.M.D.:** EMD fee (Rs.19,000/-) should be directly transfer into the bank account (IIITA General AC) of Indian Institute of Information Technology Allahabad through RTGS/NEFT and the tender document should be accompanied with the transaction receipt of RTGS/NEFT (Any bid without EMD fee receipt will not be considered). EMD receipt should be enclosed with the Technical Bid document in a separate envelop.

The detail of institute's Bank account is as below;

Account Name: IIIT-A General AC

Bank Name: Indian Overseas Bank

Address: 61, M.G. Marg, Civil Lines, Allahabad

Account No.: 035001000060976

IFSC Code: IOBA0000350

Amount of EMD as below:

S.No	Description	EMD Amount	Transaction No. & Date
1.	Supply, Installation, commissioning and testing of Sound at Auditorium	₹19,000/-	

5. The Technical Bids will be opened on-**19/07/2018 at 4:00 PM**. Tender Opening Committee authorized by the Competent Authority. The date fixed for opening of bids, if subsequently declared as holiday by the Government, the revised date of schedule will be notified. However, in absence of such notification, the bids will be opened on next working date, the time remaining unaltered. The financial bids of only those bidders, who's Technical Bids will

qualify, shall be opened by concerned committee. For any queries regarding the tender, please send a mail to info.purchase@iita.ac.in.

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Faculty In-charge Purchase

Copy to:

- **PS to Hon'ble Director- for kind information to Hon'ble director please.**



Technical Bid

(On letter head of the Firm & in a separately sealed envelope)

PROFORMA FOR APPLICATION

1. Name of the firm :-

2. Address of the firm :-

.....

3. Phone Number (With Code):-.....

4. Proprietor's name: -

5. Address of Proprietor: -

6. Proprietor's Phone No. :-

7. Email Id:

8. Details of the firm:-

(a) Date from which the firm is operating: -

(b) Turnover of the firm during: -

FY 2016-17 (₹).....

FY 2017-18 (₹).....

(Please attach documentary evidence)

(c) PAN No. :-

(d) GST No. :-



General Terms and Conditions of the Tender

1. Kindly mention enquiry number, subject, due date, contact address etc., on your quotation. Incomplete quotation will not be accepted.
2. **Bid:** The tenders are to be submitted in two part viz. "**Technical Bid**" and "**Financial Bid**" in two separate sealed envelopes separately. The Financial Bid will be opened only after acceptance of "Technical Bid".
3. Detailed specifications, catalogue/literature of all the items quoted should be supplied with the technical bid.
4. Vendors are desired to quote rates of all items listed as annexure-V. Failing which tender will not be considered.
5. **Warranty:** Warranty will start from the date of successful installation report at IIIT-A. Warranty start and end date should be clearly mentioned in the bill and warranty card duly signed & stamped, if applicable.
6. **SECURITY DEPOSIT:** The successful bidder has to deposit Security deposit which will be equivalent to 5% of the contract value in favour of 'IIIT-Allahabad', which has to be electronically transfer through the RTGS/NEFT into the bank account of Institute as mentioned below:

Account Name: IIITA General AC

Bank Name: Indian Overseas Bank

Address: 61, M.G. Marg, Civil Lines, Allahabad

Account No.: 035001000060976

IFSC Code: IOBA0000350

7. Security deposit should remain valid for a period of sixty days beyond the warranty period. **No interest shall be paid on Performance Security.** The Performance Security will be forfeited by order of the Competent Authority in the event of any breach or negligence or non-observance of any terms & conditions of the contract or for unsatisfactory performance or for non- acceptance of the supply order. EMD will be released after receiving of transaction receipt of RTGS/NEFT of security amount.
8. **Delivery Schedule:** The supply period shall commence from the date of issue of purchase order and completion period will be strictly 4-5 weeks.
9. **Payment:** Payment will be made within 15 days after acceptance of delivery of material, Installation and satisfactory report and submission of Security deposit through RTGS/NEFT.
10. **Penalty:** If the supply delayed beyond the stipulated time of completion of supply, penalty of 1% per weeks and maximum up to 10% of the total cost may be imposed at the discretion of competent authority.
11. **Exemption:** The institute is exempted from custom in terms of notification No. 51/96-custom dated 23/07/96 and is an University established under M.H.R.D. Govt. of India. Certificate to this if, required shall be provided by the Institute.
12. **Transit Permit (E way bill) :** Transit road permit in the prescribe proforma shall be made available as per rule by the Institute on the request of the supplier if, required.
13. Price Basis & applicable Tax claim: Price should be quoted by interested tenderer inclusive of all up to F.O.R. IIITA, Allahabad basis. Vendor should clearly mention the Rate of applicable GST Tax separately, if firm will not mentioned the Taxes clearly on their Price Quotation, IIIT - Allahabad will assume that the quoted price is inclusive of all and no extra amount at a later stage shall be paid by IIIT, Allahabad on account of Taxes.
14. If it is found that items are fake or of sub-standard quality and not conforming to the required specifications, the firm will have to replace the fake/ sub-standard items with genuine ones immediately but they will also be liable to be blacklisted.
15. Rate quoted by the firm should not be higher than the MRP/ prevailing market rate.
16. Conditional quotations are liable to be rejected. In the event of acceptance, Director's decision will be final. The rates should be quoted as per our required specifications.
17. The rates should be quoted in Indian rupees. Evaluation of offers will be made on the basis of total amount of all items inclusive of all charges, taxes, duties, etc., for the indicated quantity in the attached format. Rate for all the items is to be quoted by the tenderer. In case of any item has not been quoted by any bidder that bid for such items will be loaded with the highest rate received for that item as evaluation is to be done on the total amount of all the items for the indicated quantity. However, while awarding the rate contract successful bidder has to supply all the items and for those items for which bidder has not quoted the rates will get the lowest rate received in the tender. Every bidder has to agree to this condition failing which its offer will not be considered for award of work.

18. The right to accept or reject any tender/ quotation, partially or wholly, including lowest quotation without assigning any reason whatsoever thereof or incurring any liability thereby is reserved with the Director, IIIT, Allahabad. The Director, also reserves the right to split the tender and place the orders for supply of item(s), mentioned in the enquiry letter on one or more tenderer. The decision of the Director, with regard to enforcement of these terms and conditions herein contained, as a result of breach of these conditions by successful Tenderer/s, shall be final and the Director, shall not be liable for any damage/liability put forth by the Tenderers at any stage of the transaction arising out of the enforcement of any or all herein contained terms and conditions.
19. Payment will be made within fifteen days after completion of work, satisfactory inspection & satisfactory report. No conditions/ clause with regard to interest etc. shall be entertained.
20. The quantity shown in this tender is only approximate requirement and is subject to alteration at the time of placing the supply order and during the pendency of the quotation it will be binding on the part of the successful Tenderers to honour and comply with such orders placed by this Institute.
21. All the documents submitted must be legible and self-attested. Otherwise it is likely to be rejected.
22. In case the firm fails to complete the job within maximum specified period, Institute reserves the right to get the job done by any other firm and the difference of cost if any, will be recovered from the defaulting firm.
23. Tenderers responding to this enquiry shall be deemed to be agreeable to the terms and conditions herein contained. These terms and conditions shall be binding on the part of the successful tenderer.
24. Tenderer should take into account any corrigendum published on the Tender document before submitting their bids. All such corrigendum will be placed on IIIT-A website www.iiita.ac.in Intending tenderers are advised to visit www.iiita.ac.in for regular update, if any, till the closing date of tender for any corrigendum/ addendum/ amendment. IIITA will not be responsible for ignorance of corrigendum.
25. Tender must be quoted in prescribed format on the company/firm letter head.
26. If any defect is found in transit it will be the sole responsibility of the supplier to get it corrected and installed as desired by the user.
27. Quoted rate should be valid at least for 03 months. Quantity may be increase or decrease as per requirement.
28. The firm/company's black listed at any stage need not to apply.
29. All pages of the tender documents are to be signed and stamped by the tendering firm.
30. Director, Indian Institute of Information Technology, Allahabad reserves the right to reject or accept any tender.
31. Director, Indian Institute of Information Technology, Allahabad will be the sole arbitrator of all the dispute and his decision will be binding on both the parties.
32. Director, Indian Institute of Information Technology, Allahabad reserves the right to alter/modify any or all conditions of this tender notice.
33. Quotation should be addressed to Faculty In charge Purchase, Indian Institute of Information Technology, Deoghat, Jhalwa Allahabad-211015 (U.P.) India.
34. All disputes are subject to Jurisdiction of Allahabad.

For any query pertaining to this bid correspondence may be addressed to

Faculty In Charge Purchase
Indian Institute of Information Technology
Deoghat, Jhalwa, Allahabad
Phone: +91 0532-2922051
E-mail: info.purchase@iiita.ac.in

Faculty In Charge Purchase

Certified that the information in the proforma is true. I/We agree to the contents of terms & condition of the quotation/tender.

Seal and Signature of the Proprietor/Authorized Representative

Technical Terms and conditions

1. **Supplier Capability:** The bidder should have Technical expertise in Audio System, which includes installation, commissioning etc. as per requirement.
2. **Installation, Warranty & Training:** The vendor shall install and configure all required Audio System devies.
3. The tenderer should give full details of being the manufacturer or sole distributor or reseller of the items with documentary evidence/authorization letter.
4. **Authorization:** The tenderer should be an authorized dealer/reseller of the Equipment /Original Equipment Manufacturer (OEM) and a certificate to this effect should be enclosed with the technical bid. Preference will be given to the firm, if Manufacturer/ Sole Distributor.

Signature of the tenderer

Seal of the firm

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Scope of Work

In separate sealed envelope quotations are invited for time bound execution of Digital Sound at Auditorium and cable laying work of auditorium as per annexed layout for Digital audio devices, wiring and programming/patching of Sound console to Sound, mikes and Audio rack at Auditorium institute campus.

1. Laying of Snake Cables and power cable.
 - a) Stage to the console room
 - b) Between the console, audio driver rack of the stage and control room.
2. Snake Cable and other cable will be routed through conduit pipe in under wall trench which will be covered by plaster and paint as present before.
3. All Audio System must be connected by individual power top and socket which is finally connected to MCCD of calculated power.
4. All Audio System must be connected by individual connector and socket.
5. Taping of wires and cable is strictly prohibited all connection must be done via sealed connectors/jumper/switcher/splitter.
6. Cable route will be properly marked with standard flags
7. Indoor Power Cable and Snake cable Laying through PVC Pipe, Casing including all materials at required places
8. Proper Termination of Under floor stage box connecting snake Cable in stage's floor at required designated area.
9. Installation of Console/Patch Panel/Rack/Switch and System Integration.
10. Patch cord should be branded and factory crimped.
11. Labeling of Cables, installation of audio devices for new connections.
12. Installation and termination of cable will be done as per standards
13. The installation of equipment's shall be accepted only after installation tests are over.
14. Fixing of PVC Casing with accessories on the surface of wall / ceiling / column etc. with clamps, saddles, screws, etc as required.
15. Installation & Termination of devices in racks
16. Installation and audio devices with proper numbering (ferruling). *VPS*
17. Installation of Racks.
18. Testing and Certification for cabling & Points.
19. All Speaker must have safety wire which must be attached to the speaker and the wall mount stand.
20. All speakers must be installed on the wall of side wings.
21. All Speakers must be ridge by heavy duty clamps with proper screwed nut and bolt.
22. Programming of old dolby sound system and new setup is to be done.
23. Programming must be done in such manner that even a lay man can access the audio console and the matrix processor patching the old and the new setup in such a manner that a layman can understand and able to manage.
24. Audio Console, audio rack containing all required equipment is to be installed in the console room.
25. Proper marking over the console is to done to manage Sound.
26. All cordless Mics must have external antenna for proper response and should work in whole Auditorium institute campus.
27. Amplifier and drive rack must be installed in separate rack patching the old and the new device together.
28. Integration and Documentation for audio setup installed (Hard and Soft copy).
29. Any other additional item/service required to complete the Supply, Installation and commissioning of digital sound at Auditorium and cable laying work of auditorium is to be provided by the working agency.
30. Work will be verified by designated IIT A personnel and certified by working agency.
31. Onsite warranty of the installation and supplied items during the warranty period.
32. During First year of installation free operational/service visit within 3 to 4 hr as per Institute need must be provided. At least five events to be covered after installation of devices by working agency.

33. NO first copy or pirated supply is accepted only OEM manufactured goods will only be accepted with OEM certificate.
34. Channel Partner Authorization certificate from the supplied company is to be provided.
35. The supply company must have local service center or office within the Allahabad region.
36. Electrical / installation drawing is to be provided by the working agency/Company.
37. **Joint venture or consortium will not be accepted.**

Important Note:

1. Interested agencies may visit the site before quoting their rate.
2. There should not be any hanging or uncovered wire.
3. Repair/Refurnishing work owing to damage caused due to cabling or any other work related to this project shall be borne by working agency.
4. Equipment furnished shall be complete in every respect with all mountings, fittings, fixtures and standard accessories normally provided with such equipment's and/or needed for erection, completion and safe operation of the equipment's as required by applicable codes though they may not have been specifically detailed in the tender document, unless included in the list of exclusions. All similar standard components/parts of similar standard equipment's provided shall be interchangeable with one another.
6. The bidder shall also be responsible for deputing qualified personnel for installation, testing, commissioning and other services within the scope of work as per this specification. All required tools and services for completing the work as per the specification is also the responsibility of the bidder.
7. The bidder should ensure that during installation of this audio system, day-to-day functioning of official work and existing setup/connectivity should not be disrupted.
8. Powering on equipment after ensuring correctness of terminations interfaces and power supply and making the system ready for testing and commissioning.
9. Testing of Cables after laying, terminations and ferruling at both the ends. All testing tools and instruments shall be brought by the bidder and taken back after the testing.
10. Site acceptance tests to establish satisfactory performance of the equipment's as per specifications.
11. Assistance for familiarization and operation of the installed system & services for 6 months after acceptance of system.
12. Onsite warranty for all Installation and Hardware delivered for minimum one year (Higher if exclusively asked) and extended as per OEM guarantee/warranty offered.

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Annexure-V

Bill of Quantity

(To be attached with technical bid)

Sr no.	Particular	Brand	Qty.
1.	Digital Console 32 channel with Cover Case (As per Annexure XVI)	Avid/ Yahama/Digi Dezine	1
2.	Collar Cordless (big diaphragm) (As per Annexure IX)	Shure/ Beyerdynamic/ Audio Technica	4
3.	Hand Cordless (As per Annexure X)	Shure/ Beyerdynamic/ Audio Technica	4
4.	Matrix Processor (As per Annexure VIII)	Yahama/Rane/Electro Voice	1
5.	Speakers 700 watt (As per Annexure XI)	Quest/Celto Acoustics/Bose	4
6.	Amplifier 2x 1100w @ 4Ω (As per Annexure XII)	Quest/Camco/Power Soft	2
7.	8 pair mic wire Snake type (As per Annexure XV)	Beldon/Falcon/Kramer	300 mtr
8.	8 Channel stage Box	Beldon/Falcon/Kramer	4
9.	DI Box (As per Annexure XIV)	Rane/BSS/Clark Technical	6
10	Rack 12 u Floor type	D-Link/I-Boll/Enter	1
11	Rack 9 u	D-Link/I-Boll/Enter	1
12	8" Powered Studio Monitor (As per Annexure XIII)	KRK/Tescam/Yamaha	2
13	Installation, wiring, patching, programming and accessories as per scope of work		1

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Signature of the tenderer

Seal of the firm



Annexure-VI**Technical Compliance**

(To be attached with technical bid)

(1) Matrix Processor

Sr.NO.	Specifications	Compliance	Deviation if any
		Yes/No	
1.	Inputs; 8 mono (mic/line), 2 stereo (line), 16digital (via YDIF*)		
2.	Outputs; 8 mono (line), 16 digital (via YDIF*)		
3.	Can expand YDIF* equipped inputs and outputs with expanders		
4.	SD Card Slot for playback of MP3/WAV files stored on an SD Memory Card		
5.	Functions for worry-free operation; Feedback Suppressor, Auto Gain Control, Priority Ducker and Dugan Automixer		
6.	Should havetwo digital processors "Reverb" and "Echo" for entertainment applications		
7.	Should be able to Remotely control the volume and presets of multiple zones with DCP series wall mount digital controllers		
8.	Wireless DCP for iPhone and iPod touch is free available on the App Store		
9.	Equipped with Network port and GPI ports that offer compatibility with touch panel controllers such as AMX/Crestron		
10.	Easy setup and parameter control with DAW Editor		
11.	Should be able to delivers 16ch audio and word clock transmission via standard CAT5 Ether cable		

(2) COLLER MIC*UR*

Sr.NO.	Specifications	Compliance	Deviation if any
		Yes/No	
1.	Bodypack Transmitter Form factors:		
2.	Operating range (up to): 100 m (Under typical conditions)		
3.	Wireless Receiver		
4.	One-touch QuickScan frequency selection quickly locates the best open frequency (in case of interference)		
5.	Up to 12 compatible systems per frequency band (region-dependent)		
6.	XLR and 1/4" output connectors		
7.	Two-color audio status indicator LED		
8.	Green: Normal audio levels		
9.	Red: Excessive audio levels (overload/clipping)		
10.	Adjustable output level		

11.	Removable antennas for quick antenna distribution		
12.	LC Display with detailed RF and audio metering		
13.	Rack mount kit included		
14.	Wireless Bodypack Transmitter		
15.	Power and battery status LED		
16.	Adjustable gain control		
17.	Quick and easy frequency matching		
18.	100 m (300 ft.) operating range (line of sight)		
19.	CVL Centravese Lavalier Condenser Microphone		
20.	Miniature clip-on lavalier microphone for low visibility		
21.	Permanently charged electret condenser element for clear vocal reproduction		
22.	Unidirectional (cardioid) polar pattern rejects unwanted noise for improved sound quality		
23.	Included tie clip allows for hands-free use, perfect for presenters		
24.	Included windscreen reduces plosives, wind and breath sounds		
25.	Tailored frequency response optimized for speaking and presentations		
26.	TA4F (TQG) connector seamlessly integrates with bodypack systems		

(3) Hand Cordless

Sr.NO.	Specifications	Compliance	Deviation if any
		Yes/No	
1	XLR and 1/4" output connectors		
2	Microprocessor-controlled internal antenna diversity		
3	Two-color audio status indicator LED		
4	Green: Normal audio levels		
5	Red: Excessive audio levels (overload / clipping)		
6	Adjustable output level		
7	LCD display with detailed RF and audio metering Integrated microphone capsule design		
8	Lightweight, rugged construction		
9	-10 dB gain attenuation		
10	Color ID caps (available separately)		

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(4) Speakers

Sr.NO.	Specifications	Compliance	Deviation if any
		Yes/No	
1	Power Handling 700W program ; 1400W peak		
2	Frequency Response 50-16kHz		
3	Sensitivity 98dB @ 1kHz		
4	Maximum SPL @ 1m 130dB		
5	Impedance 8 ohms		
6	Connections and Wiring 2 x Speakon NL4 - 1+/1- (2+/2- through)		
7	Woofer 15" High Power Woofer		

8	Tweeter 1.4" Ferrite Compression Driver		
9	Directivity Asymmetric +15/-45 ; 30/45 horizontal		

(5) Amplifier 2x 1100-w at 4Ω

Sr.NO.	Specifications	Compliance	
		Yes/No	Deviation if any
1	Rated Power (2x 8Ω): 660-W per channel @ 1kHz at <0.05% T.H.D. both		
2	Should be channels driven		
3	Rated Power: (2x 4Ω): 1100-W per channel @ 1kHz at <0.05% T.H.D. both		
4	channels driven		
5	T.H.D: <0.1%@400-W per channel from 20 Hz to 20kHz		
6	Minimum Load Impedance: 2Ω - Audio signal / 4Ω - Signal wave		
7	Phase Response: +5 to -15 from 20 Hz to 20kHz		
8	Input Impedance: 20 kΩ, balanced; 10 kΩ, unbalanced		
9	Cooling: Two temperature dependant variable speed 80mm high-output DC fans		
10	Controls: Two front panel attenuators, rear panel mode switch and gain select switch		
11	High Pass: Linkwitz-Reily (24 dB/Octave): Off/35/80 Hz		
12	Low Pass: Linkwitz-Reily (24 dB/Octave): Off/80/110Hz		
13	Voltage Gain @ 0.775-V: 35 dB or 29 dB		
14	Crosstalk: >-60 dB @ 1kHz at rated power @ 8Ω		
15	Hum and Noise: >-107 dB, "A" weighted referenced to rated power @ 8Ω Slew Rate: >40V/us		
16	Damping factor (8Ω): >700:1 @ 20Hz - 1kHz		
17	Indicator LEDs: Two clip, two signal presence, one active status, two protection		
18	Protection: Thermal, DC, turn-on bursts, subsonic, incorrect loads		
19	Connectors: XLR .Speakon . 240/230 Volt 16 amp IEC mains		

(6) 8" Powered Studio Monitor

Sr.NO.	Specifications	Compliance	
		Yes/NO	Deviation if any
1	Configuration 2-Way		
2	System Type Active Monitor		
3	Transducer Type HF - 1" silk dome tweeter		
4	LF - 8" Aramid glass composite woofer		
5	Frequency Range 35 Hz - 35 kHz (-10dB)		
6	Crossover Frequency 2.0 kHz		

7	Power 100W total		
8	25W high frequency, 75W low frequency		
9	Maximum SPL 109 dB		
10	Standby Mode Auto, 30 minutes		
11	Cabinet MDF Connector Unbalanced 7kΩ RCA		
12	Balanced 10kΩ ¼" TRS and XLR (Pin 2 & Tip = Hot\Positive, Pin 3 & Ring =		
13	Cold\Negative, Pin 1 & Sleeve = Ground)		
14	Control HF Level Adjust (-2dB, -1dB, 0, +1dB)		
15	LF Level Adjust (-2dB, -1dB, 0, +2dB)		
16	System Volume (-30dB to +6dB)		
17	Fuse Rating Slow blow type, 5 mm x 20 mm 100V~, 110-120V~ - 2A - 250V		

(7) DI-BOX

Sr.NO.	Specifications	Compliance	Deviation if any
		Yes/No	
1	Max Input +9dBu (pad at 0dB), +29dBu (pad at -20dB), +49dBu (pad at -40dB)		
2	Input Connectors Two Parallel 1/4" jack connectors (Tip Hot +ve,		
3	Sleeve ground), and a parallel XLR connector (unbalanced) (Pin 2		
4	Hot +ve, Pin 1 & 3 ground)		
5	Output Transformer Balanced		
6	Max Output +8dBu into 600 Ohms or greater		
7	Output Connectors XLR3-32 or equivalent		
8	THD < 0.005% at 1khz, 0dbu output		
9	Noise < -105db unweighted, 22hz-22khz, rms*		
10	Frequency Response 30Hz to 20kHz, +0dB/-1dB		
11	Main/Standby battery 9 volt PP3 type, preferably alkaline		
12	Power Consumption on phantom: less than 7.5mA, on battery:		
13	less than 2mA.		
14	Phantom Power +20 volts DC to +48 volts DC		

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(8) Digital Console

Sr.No.	Specifications				Compliance	Deviation if any
					Yes/No	
Omni						
1	Fader Configuration		32 + 1 (Master)			
2	Mixing Capacity	Input Channels	48 (40 mono + 2 stereo + 2 return)			
		Aux Buses	20 (8 mono + 6 stereo)			
		Stereo Buses	1			
		Sub Buses	1			
3	Input channel functions		8 DCA Groups			
	I/O	Inputs	32 mic/line (XLR/TRS combo) + 2 stereo line (RCA pin)			
		Outputs	16 (XLR)			
		Expansion slots	1			
On-board processors	DSP	8 Effects + 10 GEQ				
General Specifications						
4	Sampling frequency rate	Internal	48 kHz			
5	Signal delay		Less than 2.6 ms, INPUT to OMNI OUT, Fs=48 kHz			
6	Fader		100 mm motorized, Resolution = 10-bit, +10 dB to -138 dB, -∞ dB all faders			
7	Total harmonic distortion		Less than 0.05% 20 Hz-20 kHz @+4 dBu into 600 Ω , INPUT to OMNI OUT, Input Gain=Min. (Measured with a -18 dB/octave filter@80 kHz)			
8	Frequency response		+0.5, -1.5 dB 20 Hz-20 kHz, refer to +4 dBu output @1kHz, INPUT to OMNI OUT			
9	Dynamic range		110 dB typ., DA Converter, 107 dB typ., INPUT to OMNI OUT, Input Gain=Min.			
10	Hum & noise level	Equivalent input noise	-128 dBu typ., Input Gain=Max. (Measured with an A-Weight filter)			
		Residual output noise	-85 dBu, ST master off (Measured with an A-Weight filter)			
11	Crosstalk		-100 dB (Measured with a -30 dB/octave filter@22 kHz), adjacent INPUT/OMNI OUT channels, Input Gain=Min.			
12	Power requirements		100-240 V 50/60 Hz			
13	Power consumption		120 W			
14	Accessories		Quick Guide, Power Cord, Nuendo Live			
15	Options		Expansion Card, Foot Switch (FC5)			
Recording/ Playback						
16	PC/Mac (USB2.0)		Recording 34 tracks, Playback 34 tracks			
17	USB Storage Device		Recording 2 tracks (USB hard drive/ SSD)*, Playback 2 tracks (USB hard drive/ SSD/ thumb drive)			
Digital input/output specifications						
18	Terminals	Format	Data length	Audio	Connector	
	USB (TO HOST)	USB	24bit	34ch input / 34ch output, PCM	USB (B type)	
19	iPad	USB	—	Playback: MP3 or WAV file data / Record: WAV file data	USB (A type)	
Control I/O specifications						
20	Terminals	Format	Level	Connector		
	NETWORK	IEEE802.3	10BASE-T/100Base-TX	RJ-45		
	FOOT SW	—	—	TS Phone		

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(9) SNAKE CABLE

Sr. No.	Specification	Compliance	Deviation if any
		Yes/No	
1	Conductor: AWG Stranding Material Nominal Diameter No. of Pairs		
2	24 7x32 TC - Tinned Copper 0.024 in 8		
3	Conductor Count: 16		
4	Total Number of Pairs: 8		
5	Conductor Size: 24 AWG		
6	Insulation Material Nominal Diameter Nominal Wall Thickness		
7	PO - Polyolefin 0.04 in 0.008 in		
	Color Chart/Number Color-		
8	Brown,red,orange,yellow,green,blue,purple,gray,red,black		
	Inner Shield Material : Type Material Material Trade Name Coverage [%]		
9	Drainwire Material Drainwire		
10	Diameter Drainwire AWG Drainwire Construction n x D		
11	Tape Aluminum Foil-Polyester		
12	Tape Beldfoil® 100 % TC - Tinned Copper 0.024 in 24 7x32		
13	TC - Tinned Copper		
	Inner Jacket Material: Material Nominal Diameter Nominal Wall		
14	Thickness		
15	PVC - Polyvinyl Chloride 0.113 in 0.015 in		
	Outer Shield Material: Type Material Material Trade Name Coverage [%]		
16	Drainwire Material Drainwire		
17	Diameter Drainwire AWG Drainwire Construction n x D		
	Tape Aluminum Foil-Polyester Tape Beldfoil® 100 % TC - Tinned Copper		
18	0.046 in 18 7x26		
	Outer Jacket Material: Material Nominal Diameter Nominal Wall		
19	Thickness Ripcord		
	PVC - Polyvinyl Chloride 0.446 in 0.038 in Yes		
20	0.446 in		

Annexure -VII

Financial Bid

(On letter head of the Firm & in a separately sealed envelope)

1) Active Components:

Sr no.	Specification	Make/Model	Qty.	Per Unit	Total Amt.
1.	Digital Console 32 channel with cover case	Avid/ Yahama/Digi Dezine	1		
2.	Collar Cordless (big diaphragm)	Shure/ Beyerdynamic/ Audio Technica	4		
3.	Hand Cordless	Shure/ Beyerdynamic/ Audio Technica	4		
4.	Matrix Processor	Yahama/Rane/Electro Voice	1		
5.	Speakers 700 watt	Quest/Celto Acoustics/Bose	4		
6.	Amplifier 2x 1100w @ 4Ω	Quest/Camco/Power Soft	2		
7.	8 pair mic wire Snake type	Beldon/Falcon/Kramer	300 mtr		
8.	8 Channel stage Box	Beldon/Falcon/Kramer	4		
9.	DI Box	Rane/BSS/Clark Technical	6		
10.	Rack 12 u Floor type	D-Link/I-Boll/Enter	1		
11.	Rack 9 u	D-Link/I-Boll/Enter	1		
12.	8" Powered Studio Monitor	KRK/Tescam/Yamaha	2		
15	Installation, wiring, patching, programming and accessories as per scope of work		1		
				Total	
				Taxes if any-	
				Net Total	



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Annexure –VIII

Matrix Processor

Sr.NO.	Specifications
1	Inputs; 8 mono (mic/line), 2 stereo (line), 16digital (via YDIF*)
2	Outputs; 8 mono (line), 16 digital (via YDIF*)
3	Can expand YDIF* equipped inputs and outputs with expanders
4	SD Card Slot for playback of MP3/WAV files stored on an SD Memory Card
5	Functions for worry-free operation; Feedback Suppressor, Auto Gain Control, Priority Ducker and Dugan Automixer
6	Should haveTwo digital processors “Reverb” and “Echo” for entertainment applications
7	Should be able to Remotely control the volume and presets of multiple zones with DCP series wall mount digital controllers
8	Wireless DCP for iPhone and iPod touch is free available on the App Store
9	Equipped with Network port and GPI ports that offer compatibility with touch panel controllers such as AMX/Crestron
10	Easy setup and parameter control with DAW Editor
11	Should be able to delivers 16ch audio and word clock transmission via standard CAT5 Ether cable

Annexure –IX

COLLER MIC

Sr.NO.	Specifications
	Available Transmitter Form factors: Bodypack
2	Operating range (up to): 100 m (Under typical conditions)
3	Wireless Receiver
4	One-touch QuickScan frequency selection quickly locates the best open frequency (in case of interference)
5	Up to 12 compatible systems per frequency band (region-dependent)
6	XLR and ¼” output connectors
7	Two-color audio status indicator LED
8	Green: Normal audio levels
9	Red: Excessive audio levels (overload/clipping)
10	Adjustable output level
11	Removable antennas for quick antenna distribution
12	LC Display with detailed RF and audio metering
13	Rack mount kit included
14	Wireless Bodypack Transmitter
15	Power and battery status LED
16	Adjustable gain control
17	Quick and easy frequency matching
18	AA batteries provide up to 14 hours of continuous use
19	100 m (300 ft.) operating range (line of sight)
20	CVL Centravese Lavalier Condenser Microphone
21	Miniature clip-on lavalier microphone for low visibility

22	Permanently charged electret condenser element for clear vocal reproduction
23	Unidirectional (cardioid) polar pattern rejects unwanted noise for improved sound quality
24	Included tie clip allows for hands-free use, perfect for presenters
25	Included windscreen reduces plosives, wind and breath sounds
26	Tailored frequency response optimized for speaking and presentations
27	TA4F (TQG) connector seamlessly integrates with Shure wireless bodypack systems

Annexure -X

Hand Cordless

Sr.NO.	Specifications
	XLR and 1/4" output connectors
	Microprocessor-controlled internal antenna diversity
2	Two-color audio status indicator LED
3	Green: Normal audio levels
4	Red: Excessive audio levels (overload / clipping)
5	Adjustable output level
6	LCD display with detailed RF and audio metering Integrated microphone capsule design
7	Lightweight, rugged construction
8	-10 dB gain attenuation
9	Color ID caps (available separately)

Annexure -XI

Speakers

Sr.NO.	Specifications
1	Power Handling 700W program ; 1400W peak
2	Frequency Response 50-16kHz
3	Sensitivity 98dB @ 1kHz
4	Maximum SPL @ 1m 130dB
5	Impedance 8 ohms
6	Connections and Wiring 2 x Speakon NL4 - 1+/1- (2+/2- through)
7	Woofers 15" High Power Woofer
8	Tweeter 1.4" Ferrite Compression Driver
9	Directivity Asymmetric +15/-45 ; 30/45 horizontal

Annexure -XII

Amplifier 2x 1100-w at 4Ω

Sr.NO.	Specifications
1	Rated Power (2x 8Ω): 660-W per channel @ 1kHz at <0.05% T.H.D. both
2	channels driven
3	Rated Power: (2x 4Ω): 1100-W per channel @ 1kHz at <0.05% T.H.D. both
4	channels driven
5	T.H.D: <0.1% @ 400-W per channel from 20 Hz to 20kHz
6	Minimum Load Impedance: 2Ω - Audio signal / 4Ω - Signal wave
7	Phase Response: +5 to -15 from 20 Hz to 20kHz

8	Input Impedance: 20 k Ω , balanced; 10 k Ω , unbalanced
9	Cooling: Two temperature dependent variable speed 80mm high-output DC fans
10	Controls: Two front panel attenuators, rear panel mode switch and gain select switch
11	High Pass: Linkwitz-Reily (24 dB/Octave): Off/35/80 Hz
12	Low Pass: Linkwitz-Reily (24 dB/Octave): Off/80/110Hz
13	Voltage Gain @ 0.775-V: 35 dB or 29 dB
14	Crosstalk: >-60 dB @ 1kHz at rated power @ 8 Ω
15	Hum and Noise: >-107 dB, "A" weighted referenced to rated power @ 8 Ω Slew Rate: >40V/us
16	Damping factor (8 Ω): >700:1 @ 20Hz - 1kHz
17	Indicator LEDs: Two clip, two signal presence, one active status, two protection
18	Protection: Thermal, DC, turn-on bursts, subsonic, incorrect loads
19	Connectors: XLR .Speakon . 240/230 Volt 16 amp IEC mains
19	Construction: Cold Steel Rolling + Machined aluminium front panel

Annexure -XIII

8" Powered Studio Monitor

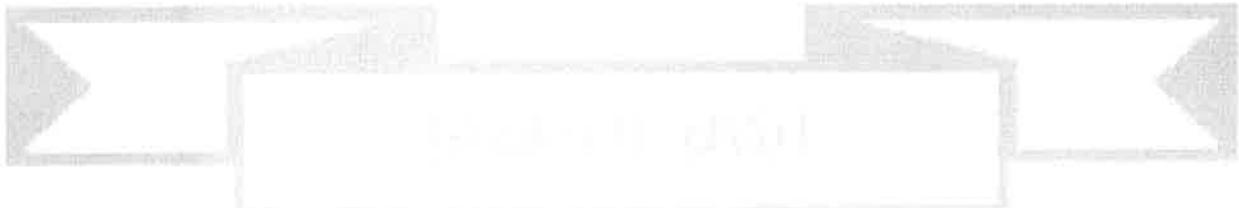
Sr.NO.	Specifications
1	Configuration 2-Way
2	System Type Active Monitor
3	Transducer Type HF - 1" silk dome tweeter
4	LF - 8" Aramid glass composite woofer
5	Frequency Range 35 Hz - 35 kHz (-10dB)
6	Crossover Frequency 2.0 kHz
7	Power 100W total
8	25W high frequency, 75W low frequency
9	Maximum SPL 109 dB
10	Standby Mode Auto, 30 minutes
11	Cabinet MDF Connector Unbalanced 7k Ω RCA
12	Balanced 10k Ω ¼" TRS and XLR (Pin 2 & Tip = Hot\Positive, Pin 3 & Ring =
13	Cold\Negative, Pin 1 & Sleeve = Ground)
14	Control HF Level Adjust (-2dB, -1dB, 0, +1dB)
15	LF Level Adjust (-2dB, -1dB, 0, +2dB)
16	System Volume (-30dB to +6dB)
17	Fuse Rating Slow blow type, 5 mm x 20 mm 100V~, 110-120V~ - 2A - 250V

LEPS

DI-BOX

Sr.NO.	Specifications
1	Max Input +9dBu (pad at 0dB), +29dBu (pad at -20dB), +49dBu (pad at -40dB)
2	Input Connectors Two Parallel 1/4" jack connectors (Tip Hot +ve,
3	Sleeve ground), and a parallel XLR connector (unbalanced) (Pin 2
4	Hot +ve, Pin 1 & 3 ground)
5	Output Transformer Balanced
6	Max Output +8dBu into 600 Ohms or greater
7	Output Connectors XLR3-32 or equivalent
8	THD < 0.005% at 1kHz, 0dbu output
9	Noise < -105db unweighted, 22hz-22khz, rms*
10	Frequency Response 30Hz to 20kHz, +0dB/-1dB
11	Main/Standby battery 9-volt PP3 type, preferably alkaline
12	Power Consumption on phantom: less than 7.5mA, on battery:
13	less than 2mA.
14	Phantom Power +20 volts DC to +48 volts DC

1498



Annexure-XV

SNAKE CABLE

Sr. No.	Specification
1	Conductor: AWG Stranding Material Nominal Diameter No. of Pairs
2	24 7x32 TC - Tinned Copper 0.024 in 8
3	Conductor Count: 16
4	Total Number of Pairs: 8
5	Conductor Size: 24 AWG
6	Insulation Material Nominal Diameter Nominal Wall Thickness
7	PO - Polyolefin 0.04 in 0.008 in
8	Color Chart/Number Color-Brown,red,orange,yellow,green,blue,purple,gray,red,black
9	Inner Shield Material : Type Material Material Trade Name Coverage [%] Drainwire Material Drainwire
10	Diameter Drainwire AWG Drainwire Construction n x D
11	Tape Aluminum Foil-Polyester
12	Tape Beldfoil® 100 % TC - Tinned Copper 0.024 in 24 7x32
13	TC - Tinned Copper
14	Inner Jacket Material: Material Nominal Diameter Nominal Wall Thickness
15	PVC - Polyvinyl Chloride 0.113 in 0.015 in
16	Outer Shield Material: Type Material Material Trade Name Coverage [%] Drainwire Material Drainwire
17	Diameter Drainwire AWG Drainwire Construction n x D
18	Tape Aluminum Foil-Polyester Tape Beldfoil® 100 % TC - Tinned Copper 0.046 in 18 7x26
19	Outer Jacket Material: Material Nominal Diameter Nominal Wall Thickness Ripcord
20	PVC - Polyvinyl Chloride 0.446 in 0.038 in Yes 0.446 in

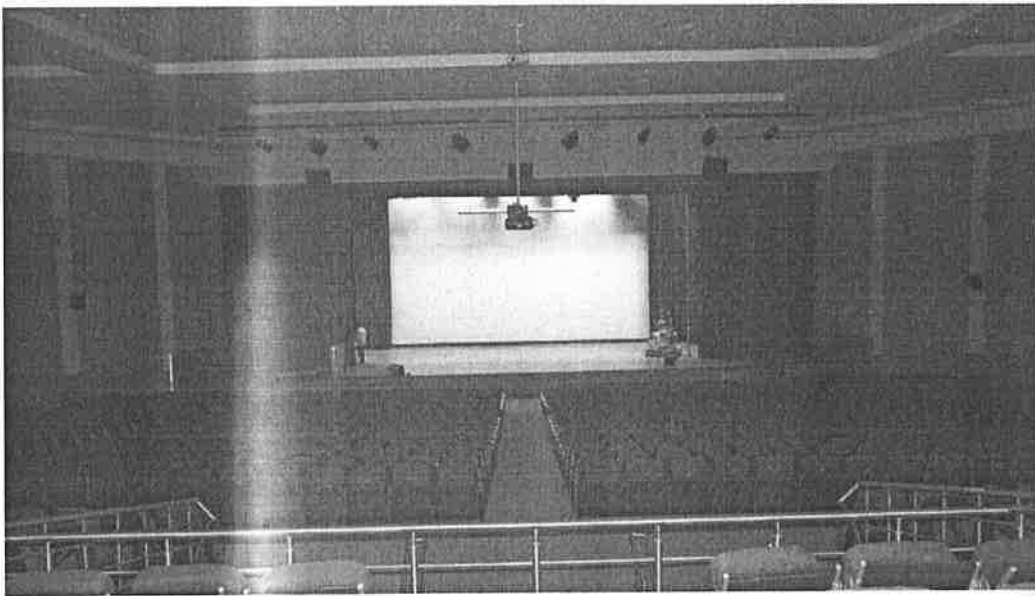
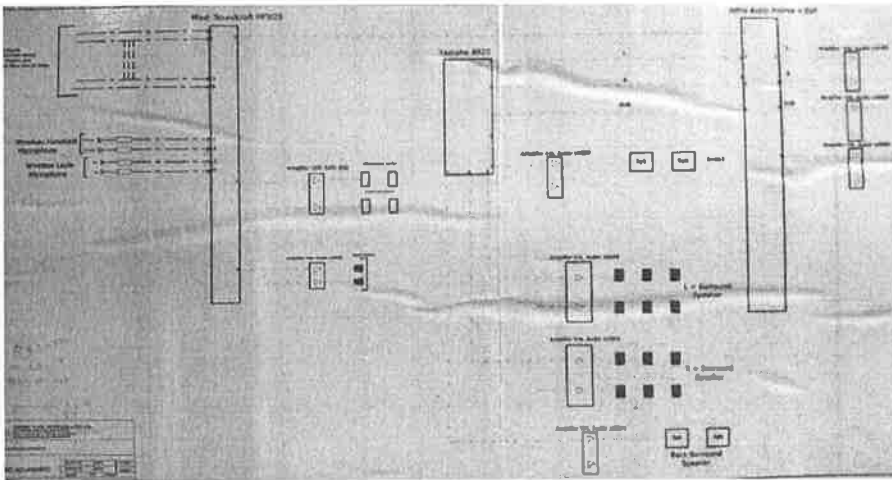
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(8) Digital Console

Annexure -XVI

Sr.No.	Specifications				
General specifications					
1	Fader Configuration	32 + 1 (Master)			
2	Mixing Capacity	Input Channels	48 (40 mono + 2 stereo + 2 return)		
		Aux Buses	20 (8 mono + 6 stereo)		
		Stereo Buses	1		
		Sub Buses	1		
3	Input channel functions	8 DCA Groups			
	I/O	Inputs	32 mic/line (XLR/TRS combo) + 2 stereo line (RCA pin)		
		Outputs	16 (XLR)		
		Expansion slots	1		
On-board processors	DSP	8 Effects + 10 GEQ			
General specifications					
4	Sampling frequency rate	Internal	48 kHz		
5	Signal delay	Less than 2.6 ms, INPUT to OMNI OUT, Fs=48 kHz			
6	Fader	100 mm motorized, Resolution = 10-bit, +10 dB to -138 dB, -∞ dB all faders			
7	Total harmonic distortion	Less than 0.05% 20 Hz-20 kHz @+4 dBu into 600 Ω, INPUT to OMNI OUT, Input Gain=Min, (Measured with a -18 dB/octave filter@80 kHz)			
8	Frequency response	+0.5, -1.5 dB 20 Hz-20 kHz, refer to +4 dBu output @1kHz, INPUT to OMNI OUT			
9	Dynamic range	110 dB typ., DA Converter, 107 dB typ., INPUT to OMNI OUT, Input Gain=Min.			
10	Hum & noise level	Equivalent input noise	-128 dBu typ., Input Gain=Max. (Measured with an A-Weight filter)		
		Residual output noise	-85 dBu, ST master off (Measured with an A-Weight filter)		
11	Crosstalk	-100 dB (Measured with a -30 dB/octave filter@22 kHz), adjacent INPUT/OMNI OUT channels, Input Gain=Min.			
12	Power requirements	100-240 V 50/60 Hz			
13	Power consumption	120 W			
14	Accessories	Quick Guide, Power Cord, Nuendo Live			
15	Options	Expansion Card, Foot Switch (FC5)			
Recording/ Playback					
16	PC/Mac (USB2.0)	Recording 34 tracks, Playback 34 tracks			
17	USB Storage Device	Recording 2 tracks (USB hard drive/ SSD)*, Playback 2 tracks (USB hard drive/ SSD/ thumb drive)			
Digital input/output specifications					
18	Terminals	Format	Data length	Audio	Connector
	USB (TO HOST)	USB	24bit	34ch input / 34ch output, PCM	USB (B type)
19	iPad	USB	—	Playback: MP3 or WAV file data / Record: WAV file data	USB (A type)
Control I/O specifications					
20	Terminals	Format	Level	Connector	
	NETWORK	IEEE802.3	10BASE-T/100Base-TX	RJ-45	
	FOOT SW	—	—	TS Phone	

Annexure-XVII



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