



**INDIAN INSTITUTE OF SCIENCE EDUCATION AND
RESEARCH THIRUVANANTHAPURAM (IISERTVM)
(Govt. of India, Ministry of H.R.D)**

PH: 0471-2597454
FAX: 0471-2597427
EMAIL: PURCHASESTORES@IISERTVM.AC.IN

CET CAMPUS, KULATHUR, ENGINEERING COLLEGE.P.O
THIRUVANANTHAPURAM 695016,
KERALA, INDIA.

Date: 22nd October 2015

INVITATION TO TENDER(IND)

**No: IISER/PUR/6459/15
Due Date: 09th November 2015 [4PM]
Date of Opening: 12th November 2015 [3PM]**

Dear Sirs,

SUB: Supply and installation of Audio Systems.

We invite Sealed Tenders for the following items:

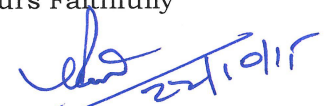
Sl #:	Item/ Description	Qty
1.	Supply and Installation of Speakers, Power Amplifier, Audio Mixer, Wireless Microphone Systems and 18U Rack (Details as per Annexure I)	1 No

Please quote your lowest rate and shortest delivery period as per the following terms. Your offer in sealed cover **SUPERSCRIBING TENDER NUMBER AND DUE DATE** shall reach us on or before the due date and time. Please follow "Instruction to Tenderers" attached.

- EMD** : **Rs. 6,500/-in the form of DD or B.G. to be submitted along with the quote. Quote received without EMD will be summarily rejected.**
- Payment** : Within 30 days after supply and installation/Net 30 days /LC.
No advance payment will be made by IISERTVM.
- Delivery** : To be delivered at our stores (Free delivery). If import, mention Ex-works/FCA/CIP terms with clear breakup charges.
- Taxes & Duties** : Indicate taxes and duties. We are exempted for customs duty under 51/96 notification and Excise duty under 10/97 notifications.
- Discount** : Indicate, if any.
- Delivery Schedule** : Required Immediately. Indicate your schedule
- Validity of quote** : 60 days

Thanking You,

Yours Faithfully

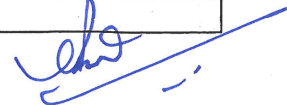

(K. Bhaskara Rao)
Deputy Registrar
[Purchase & Stores]

P.S. CATALOGUE/LEAFLET FEATURING ALL TECHNICAL SPECS/INFORMATION OF THE PRODUCT QUOTED SHALL ACCOMPANY THE OFFER.

Items/Specification/Quantity

1. 200W 2-way indoor loud speaker – 4 nos	
Power capacity	200W continuous/400W program/800W peak
Nominal Impedence	8 Ω
Sensitivity 1W/1m	94 dB
Maximum SPL/1m	118 dB
Coverage Pattern (H x V)	90° x 50°
Input connections	4-pin Phoenix/ Dual Neutrik NL4MP connectors
Enclosure	High impact polymer
Grille	Powder coated perforated steel
Mounting arm	Integrated heavy-duty Wall/Ceiling Mount bracket
Brands	EV/JBL/ALTO
2. Dual Channel Power Amplifier – 1 nos	
Continuous Rated Power at 1KHz per channel	270W at 8Ω, 450W at 4Ω
Amplifier gain	32dB
Frequency response	20 Hz - 40 kHz
Impedence	8/4 Ω
Amplifier Protection	Audio limiters; over-temperature detection
Load Protection	Start-up/shutdown transients; dc fault; Low ac line voltage; nonlinear signal limiters
Cooling System	Airflow fans
Front-Panel Indicators	LEDs indicating signal present and limiter on, protect indicator and power on per channel
Input connections	2 x 3-pin female XLR
Output	2 x Neutrik Speakon NL4MP
Operating Voltage	230V, 50Hz
Brands	EV/CROWN/ YAMAHA
3. 10 Channel mixer – 1 nos	
Type	Analog
Channels	10
Inputs - Mic Preamps	6 x XLR
Outputs – Main	2 x XLR
Headphones	1 x ¼"
Phantom power	48V
EQ bands	3-band
Computer connectivity	USB for payback and recording
Effects	Yes
Operating Voltage	230V, 50Hz
Brands	Allen & Heath /Soundcraft/Mackie
4. Wired Podium Microphone - 1 nos	
Mike type	Goose neck
Element	Back Electret Condenser
Polar Pattern	Cardioid
Frequency response	100 Hz to 15,000 Hz
Connector Type	XLR
Power Requirements	48 to 52 Volt Phantom Supply
Gooseneck and Head Length	>11"
Finish	Non-reflecting Black
Case material	Steel
Brands	EV/Shure/Sennheiser

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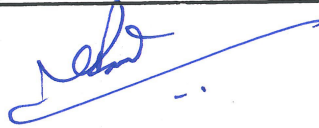


5. Lapel microphone, bodypack transmitter and receiver – 1 set

System	
Type	UHF Lavalier Microphone
Dynamic Range	Greater than 95dB
Frequency Response	80 Hz – 18 kHz +- 2dB
Signal-to-Noise Ratio	Greater than 100dB
Number of channels	32 preset channels
Bodypack Transmitter	
Type of input connector	TA4
Mute switch	On/Off, Set, Up, Down, Sync
Back Lit LCD Display	To display Battery level, channel, Frequency, Mute
Microphone Head	Cardioid Dynamic
Standard Lavalier Microphone	Uni-Directional Condenser
Power Requirement	Two AA batteries
Receiver	
Frequency Range (RF)	618 MHz - 806MHz
Modulation	+ - 40KHz
Diversity	True Antenna
Type of output	1/4 inch unbalanced, 3-pin XLR balanced
Display	Backlit LCD
Chassis	Metal
Brands - EV/Shure/Sennheiser	

6. Handheld microphone and receiver – 1 set


System	
Type	UHF Handheld
Dynamic Range	Greater than 95dB
Frequency Response	80 Hz – 18 kHz +- 2dB
Signal-to-Noise Ratio	Greater than 100dB
Number of channels	32 preset channels
Transmitter	
Type of microphone	Dynamic capsule
Polar pattern	Cardioid
Mute switch	On/Off, Set, Up, Down, Sync
Back Lit LCD Display	To display Battery level, channel, Frequency, Mute
Standard Lavalier Microphone	Uni-Directional Condenser
Power Requirement	Two AA batteries
Case material	Rugged metal
Receiver	
Frequency Range (RF)	618 MHz - 806MHz
Modulation	+ - 40KHz
Diversity	True Antenna
Type of output	1/4 inch unbalanced, 3-pin XLR balanced
Display	Backlit LCD
Chassis	Metal
Brands - EV/Shure/Sennheiser	



18U floor mount rack – 1 nos	
Dimensions	Width – 700mm, Depth – 700mm
Installation height	18U
Material	Powder coated sheet metal, window – 3mm single pane safety glass
Description	Roof and base plates with cut-outs for cable entry via brush strips Two lockable side panels One lockable gazed door, security lock with key Earthing kit for system-compatible earthing 19" mounting frame Casters and levelling feet
Color	Light Grey
Brands	Rittal/Tripp Lite/APC

Other conditions

- Speakers should be mounted on ceiling/wall as required by IISER-TVM
- Amplifier and mixer should be installed on the rack
- Podium microphone should be mounted on the podium using shock mount kit
- All components should be interconnected professionally and demonstrated
- All required cables and accessories should be supplied and installed by the vendor
- All components should have one year warranty


22/10/15
(K. Bhaskara Rao)
Deputy Registrar
[Purchase & Stores]

IISERTVM
INSTRUCTIONS TO TENDERERS [INDIGENOUS].

1. Tenders should be sent in sealed envelopes superscribing the relevant tender no. and the due date of opening. Only one tender should be sent in each envelope.
2. Late tender and Delayed Tenders will not be considered under any circumstances.
3. Sales Tax and /or other duties/levies where legally levies and intended to be claimed should be distinctly shown separately in the tender.
4. (a). Your quotation should be valid for a minimum period of 60 days from the date of opening of the Tender. Quotation with firm prices will be preferred.
(b). Prices are required to be quoted according to the units indicated in the Invitation to Tender. When quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.
5. **(a) Preference will be given to those tenders offering supplies from ready stocks. The basis of delivery is at IISER site free of cost.**
(b) Our payment terms are within 30 days of receipt and acceptance of the item at our site.
6. (a) All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer.
(b) Samples, if called for, should be submitted free of all charges by the tenderer and the IISER shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of non-acceptance of tender, the tenderer will have to take back the samples at his own expense.
(c) Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensional details are available the same should also be indicated in your offer.
(d) **Specifications:** Stores offered should strictly conform to our specifications. Deviations, if any should be clearly indicated by the tenderer in their quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary along with the quotations. Test Certificates wherever necessary should be forwarded along with supplies. Whenever specifically mentioned by us the tenderer could suggest changes to specifications with appropriate reasons for the same.
7. IISER shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portion of the quantity offered and the tenderers shall supply the same at the rates quoted.
8. Corrections, if any, in the Quotation must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amounts quoted in words and figures, amount quoted in words shall prevail. Quotation must have price for each line item and totaling of the price including taxes and duties should be clearly mentioned.
9. The tenderer should mention the name of his bankers, Sales Tax Registration, PAN number etc in the tender.
10. The authority of the person signing the tender, if called for, should be produced.
11. The purchaser reserve the right to accept or reject the lowest or any other offer in whole or in part without assigning any reason.
12. IISER being a Govt of India Educational and Research Institute, is exempted from payment of Excise Duty under Notification No. 10/97 and Customs Duty under Notification No. 51/96- Customs dated 23rd July 2009. Also, we can issue Form 16 as per VAT Rules.
13. The stores supplied should be covered with minimum of 1 year warranty from the date of supply, installation and commissioning.
14. Earnest Money Deposit/ Bid Security should be submitted alongwith your quote as mentioned in Invitation for Tender. EMD should be in favour of Indian Institute of Science Education and Research Thiruvananthapuram valid for 90 days


DEPUTY REGISTRAR
[PURCHASE & STORES]