



Ref No: ICTS/TIFR/RFQ/50/2018-19

Date: 03/12/2018

**ENQUIRY**

To,

Dear Sir,

**Subject: Enquiry for the Supply, Installation, Testing, Commissioning and Maintenance of Audio Visual equipment for a meeting room****Scope of Work:**

Supply, Installation, Testing, Commissioning and Maintenance of the Audio Visual Works.

All materials/ components required to set-up the system, whether expressly mentioned or not, shall be provided by the bidder, and the Centre shall not be responsible for supplying the same.

The Project consists of the following facility:

- 20 seater boardroom

The scope of service for the AV System Integrator (AVSI) is to Supply, Install, Testing, Commissioning and Maintenance the systems as per the BOM given in the tender.

Bidders are required to meet with ICTS Systems Administration staff to fully understand requirements, conduct a survey at site and ascertain the Bill of Materials for AV system meeting technical requirements as specified by this tender. Bidders are encouraged to understand ICTS's requirements and propose a suitable alternative solution and design. A complete Bill of Materials for AV system with supporting technical justifications, if any, are to be submitted with proposal against this tender. Bidders will undertake all the necessary activities for successful implementation of the AV system.

For this project, ICTS is looking to appoint a vendor with a high skill level in AV System Integration, and extremely high quality of work and excellent project management and coordination skills as this area under development is high profile and only the best of finishes and installation works will be accepted by the ICTS.

DM, Audio DSP and touch panel have to configured as per ICTS requirements.

**The bidder should configure some of the following Touch Panel features:**

- Master Volume control
- Audio DSP individual line in/out gain control
- Audio DSP Audio Matrix control



- SIP Audio Controls of DM and DSP
- Individual Dante MIC on/off
- HDMI In/Out Matrix control
- VC Codec Operation Control
- VC Content sharing Control
- Single Button Recording ON/OFF
- Dedicated button(s) for each specific mode of operation at homepage,
  - Exa-1: Video Conference mode: - It turn on the Display, set Video matrix ,set the audio matrix, turn on dante mic and Speakers, display VC home page, Record button on side
  - Exa-2: Meeting mode :- It turn on the Display, set the audio matrix, turn on dante mic and speakers,record button on side
  - Exa-3: Audio Bride :- SIP Calling control of DSP's(Tesiraforte VI Dante,DMPS3-300-C-AEC,...) , need to popup and provide dial and call control options, set the audio matrix, turn on dante mic and speakers, record button on side and etc.,
  - Exa-4: Audio Bridge over 3.5 Jack : DSP auto config to 3.5" TRRS connector (Audio IN/OUT) for mobile/laptop 3.5" jack(AHJ,CTIA,OMTP,..) which can communicate to boardroom system (Set the audio matrix, turn on dante mic and Speakers, Record button on side and etc.,)
  - Exa-5: Soft VC Mode(Laptop/Rack-PC) : Turn on the Display, set video matrix ,set the audio matrix including USB, turn on dante mic and speakers, record button on side,..

### HANDING OVER DOCUMENTS (HOD)

After successful testing and commissioning of the equipment along with accessories in total as desired by the ICTS you shall submit two sets of Handing Over Documents neatly bound to corporate standards along with two soft copies in CD.

The following are to be included in the HOD:

1. Brief Design Concept
2. As built Drawings
3. Test Readings/ Reports.
4. Installation and commissioning Reports.
5. Warranties/ Guarantees.
6. Snag list status.
7. Operating manuals.
8. Tools/ Tackles/ Spares.
9. Emergency operation details.
10. Emergency contact of list with Phone/ Mobile/ Pager/ Fax/ E-mail/ Etc.
11. Warranty Certification from OEM

**Tender Criteria:**

1. The bidder should have executed at least 2 projects of similar scale and value in India, using a architecture and technologies similar to that being proposed in their quotation against this tender. Purchase order copies of the same must be submitted with the technical bid.
2. All vendors participating in this tender must visit the ICTS site at Shivakote for site survey and also meet with the ICTS IT team for detailed discussions and clarifications, if any.
3. The bidder should submit the MAF (Manufacturer's Authorization Form) Certificate along with the quotation. Bids without MAF Certificate will be disqualified.
4. All warranty and support must be serviced directly by the OEM. ICTS requires that there be a SPOC from OEM who is responsible for all issues between ICTS and the OEM.
5. The bidder should have at least two local in-house engineers with Crestron, Kramer, Extron and Biamp programming certification.

**Terms & Conditions:**

The center being public funded research institution is entitled for GST @ 5% vide notification No. 47/2017-Integrated Tax (Rate) and No.45/2017-Central Tax dated 14-11-2017. Necessary Certificate will be provided along with the order.

The bids/ quotation addressed to “**International Centre for Theoretical Sciences – TIFR**”. You are requested to superscribe our enquiry number and due date on the envelope.

All duties, taxes, surcharge and cess as currently applicable must be stated in your quotations, separately. Otherwise your quote is liable to be rejected.

- 1) **DUE DATE FOR SUBMISSION OF QUOTATION AGAINST THIS ENQUIRY IS 18/12/2018 till 15.00 Hours.**
- 2) **QUOTATIONS RECEIVED AFTER THE DUE DATE SHALL BE REJECTED.**
- 3) Vendors can quote in USD also. OEM should provide Warranty, Support & Service locally.
- 4) The Validity of your quotation should be for **60 days from the date.**
- 5) Your quotation should include 2-year warranty. 3<sup>rd</sup> and 4<sup>th</sup> year additional warranty is optional but mandatory to quote.
- 6) Delivery to be made to ICTS-TIFR (at vendor's own arrangement). Transit Insurance should be done up to International Centre for Theoretical Sciences-TIFR, Survey No. 151, Shivakote Village, Hesaraghatta Hobli, Bangalore North – 560089.
- 7) Delivery Period: 4 weeks from the date of acceptance of the purchase order and Installation within 4 week from delivery.
- 8) Liquidated damage: In case the item is not supplied within the agreed delivery schedule and after a grace period of 07 days, then liquidated damages will be imposed automatically and will be deducted from the bill of the vendor at the rate of 0.5% per week, subject to a maximum of 10% of the order value.

- 9) **Payment:** Within 15 days after delivery, acceptance & satisfactory installation.
- 10) Any dispute or differences that may arise between the parties shall be referred to the sole arbitration of the Centre Director or his nominees. The decision of the arbitrator shall be final and binding on the parties. The venue for arbitration shall be Bangalore. The provisions of the Arbitration and Conciliation Act, 1996 as amended from time to time shall apply. The Courts in Bangalore shall have exclusive jurisdiction to deal with any or all disputes between the parties.

Please let us have your lowest Quote for the following:

Sl. No	Item Description	HSN/SAC Code	Qty	Rate per unit Rs.	Amount Rs.
<b>A</b>	<b>Video &amp; control system</b>				
A-1	Digital Media presentation switcher with Integrated Amplifier   Control Processor with the specifications of the make Crestron (DMPS3-300-C) with iPad app license or equivalent		1 No.		
A-2	10" Colour touchpanel with Table top docking station (PoE based) with the specifications of the make Crestron TSW-1060-NC-W-S & TSW-1060-TTK-W-S) or equivalent		1 No.		
A-3	Full HD PTZ Camera, with an 20x Zoom, inbuilt USB Plug-and-Play and HDMI output (simultaneous output) Acceptable: Vaddio/Panasonic/Glimsonic/Avonic/Lumens/Sony or equivalent		1 No.		
<b>B</b>	<b>Microphones &amp; DSP</b>				
C-1	Table Microphone array, Steerable Coverage of 4 separate polar patterns which rejects overhead HVAC and fan noise with the specifications of the make Shure (MXA 310 black/grey) or equivalent		3 No.		
C-2	Audio DSP with 12 analog inputs, 8 analog outputs, AEC and 8 channels configurable USB audio ,2-channel		1 No.		

	<b>VoIP(SIP)</b> , Dante Version with the specifications of the make Biamp (Tesira <b>FORTE DAN VT</b> ) or equivalent				
C-3	Min 16 port 1G Non Blocking Network Switch with POE+,Dante, VLAN, multicast and jumbo frames support. (Cisco, Netgear or equivalent)		1 No		
<b>D</b>	<b>Audio system</b>				
D-1	<b>Ceiling Loudspeaker -</b> With the specifications of the make JBL ( <b>JBL Control-24C/T Micro</b> ) or Equivalent		3 Pair		
D-2	Two Channel Low and High Impedance Amplifiers (Min 100 Watts Per Channel) with specifications of the make JBL CSA 240 or equivalent		1 No.		
D-3	Physical Volume Controller with the specifications of the make Extron VC50 or better		1 No.		
<b>E</b>	<b>Cables &amp; Accessories</b>				
E-1	Patch Cords & connectors (Belden/Krystal/Extron/Crestron/Crown/Neutrik/Kramer/Commscope)  <b>Note:</b> <ul style="list-style-type: none"> <li>• <b>LAN Cable</b> : Commscope GS8E-LBCPC3312-02   GS8E-LB (GigaSPEED XL GS8E Stranded Cordage Modular Patch Cord, Light Blue Jacket) preferred.</li> <li>• <b>Kramer HDMI Cable</b> preferred.</li> <li>• The patch cords should be company molded cables (without any joints/adaptors)</li> <li>• <u>Existing cable can be utilized but need to list in bid</u></li> </ul>		1 LOT		



E-2	Cable Laying, Installation, configuring, programming of Control System & Audio DSP. Commissioning the solution		1 LOT		
	Sub Total				
	Add: GST				
	Total Amount in Rupees				
Amount in Words Rupees					

For and on behalf of International Centre for Theoretical Sciences-TIFR

Sd.

Authorized Signatory

