



Ref No: ICTS/TIFR/RFQ/76/2018-19

Date: 04/01/2019

ENQUIRY

To,

Dear Sir,

Subject: Enquiry for the Supply and Installation of HDMI Switcher and Microphones

Scope of Work: Supply and Installation of HDMI Switcher and Microphones

Sealed tenders are invited under 2 cover system from reputed OEM (Original Equipment Manufacturer) / Registered and Licensed Vendors for Job Contract at International Centre for Theoretical Sciences, Survey No. 151, Shivakote, Hessarghatta, Bangalore - 560089 (India).

The Technical and Price Bids shall be submitted simultaneously in two cover (sealed) system. The proposals shall be evaluated in two stages: (1) Technical and (2) Price. Technical evaluation will be carried out and those vendors who qualify in the technical evaluation will be eligible for Price Bid opening. Thereafter Financial proposal shall be evaluated. The Commercially Lowest Bidder shall be the first preferred Vendor for the Award of Order

Important Instruction: The bids shall be enclosed in an envelope and sealed duly marked "Enquiry for Supply, Installation and Commissioning of HDMI Switcher and Microphones at ICTS Campus," Ref No. ICTS/TIFR/RFQ/76/2018-19; and addressed to "Administrative Officer" at the address given below. The bids are liable to be rejected if the sealed envelope is not addressed to "Administrative Officer" with Tender Ref No. and Item Description. Offers delivered in person shall be deposited in the Tender Box kept in the Office. If the bids are sent through courier or mail, it should reach by submission date and time and ICTS will not be responsible for any delay.

The tenders should be submitted in two sealed covers. This tender will be evaluated under 2 cover bid system as described above.

I. The First sealed cover - **COVER I** should be superscribed "Technical Bid" and should contain:

1. Pages 1 to 3 of this enquiry duly sealed and signed.
2. Detailed BOQ with Warranty Details (Same as Financial bid without prices mentioned)

International Centre for Theoretical Sciences – TIFR
Survey No. 151, Shivakote Village
Hesaraghatta Hobli
Bangalore (North) – 560 089
Ph: 080 4653 6027 Email: purchase@icts.res.in
GSTIN : 29AAATT3951F2ZB





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3. Technical specifications of the product for all quoted items.
4. MAF (Manufacturer's Authorization Form) Certificate for all quoted items
5. Proof of OEM Certified in-house Engineer's for all quoted items.
6. Two executed Purchase Order copies of similar order.

II. The Second sealed cover - **COVER II** superscribed 'Price Bid' should contain the Financial bid.

Tender Criteria:

1. The bidder should submit the MAF (Manufacturer's Authorization Form) Certificate along with the quotation (if certificate is from the distributor, OEM authorization certificate of the distributor is mandatory). Bids without MAF Certificate will be disqualified.
2. Financial bids, if enclosed with the technical bids in Cover 1 will lead to automatic disqualification of the bid.
3. **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.**
4. The bidder should have at least two installations of the proposed HDMI Switcher and Microphones and proof of the same should be enclosed with the technical bid.

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 25/01/2019 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 3-year warranty. 4th and 5th year additional warranty is optional but mandatory to quote.





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- 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 2 weeks 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.

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

**Authorized Signatory****Administrative Officer - 'D'****International Centre for Theoretical Sciences****Tata Institute of Fundamental Research****Survey No. 151, Shivakote,
Hesaraghatta Hobli, Bangalore - 560 089**


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FINANCIAL BID
Please let us have your lowest Quote for the following:

Sl. No	Item Description	HSN/SAC Code	Qty	Rate per unit Rs.	Amount Rs.
1.	Supply and installation of VGA/HDMA Scaler with the specification of the make Kramer(VP-426H2) or equivalent <ul style="list-style-type: none"> ● Resolution — 4K@60Hz (4:4:4). ● Stereo audio connectors: On 3.5mm mini jacks(Input/Output) ● Standards Compliance — HDMI 2.0, HDCP 2.2/1.4. ● EDID Handling — Reading and storage of acceptor's EDID. ● Inputs — VGA (RGBHV), Component (YPrPr) or HDMI. ● Outputs — Simultaneous RGBHV and HDMI. ● Input Auto-Scanning. ● Constant Sync — Maintains sync on the output, even if input video signal is lost or interrupted. ● Analog/Embedded Audio Support — For inputs and outputs. ● Built-in ProcAmp — For convenient signal adjustment. ● On-Screen Display (OSD) — For easy setup and adjustment, accessible via the front-panel buttons. ● Non-Volatile Memory — Retains last settings used. ● Freeze Button. ● Contact Closure — For remote switching of sources. ● USB Port — For upgrading firmware. ● Should include minimum 7-years OEM warranty 		2 No.		
2.	Supply and installation of HDMI 8X8 Matrix Switcher with the specification of the make Kramer(VS-88UHDA) or equivalent		1 No.		


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	<ul style="list-style-type: none"> ● Max. Data Rate — 8.91Gbps data rate (2.97Gbps per graphics channel). ● Max. Resolution — Up to 4K@60Hz (4:2:0). ● Independent Audio Matrix — With ARC support. ● Audio Handling — Level & balance support. ● Kramer Step-In Over HDMI Technology. ● HDMI, HDCP and DVI Compliance. ● Selectable HDCP Off per Input. ● Memory Locations — 16 presets for quick access to common configurations. ● Advanced EDID Management per Input. ● Active Source & Acceptor Detection. ● Automatic Input Selection — Based on priority selection or last connected input. ● HDMI Support — Deep Color, 3D, ARC, up to 7.1 uncompressed audio channels. ● reKlocking and Equalization Technology — Rebuilds the digital signal to travel longer distances. ● Embedded Pattern Generator — With selectable patterns. ● Lock Button — To prevent tampering. ● Firmware Upgrade/Control — Ethernet or the RS-232 port. ● Should include rack mount set ● Should include minimum 7-years OEM warranty 				
3.	<p>Supply and installation of Wireless Handheld Microphone Set with the specification of the make Sennheiser(EW 100 G4-835-S) or equivalent</p> <ul style="list-style-type: none"> ● Include EM 100 G4 true diversity receiver or equivalent ● Include SKM 100 G4-S handheld transmitter or equivalent ● Include GA 3 rack mount set or equivalent ● Include MMD 835-S microphone head or equivalent 		4 No.		




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	<ul style="list-style-type: none"> ○ Sound pressure level (SPL) : 154 dB ○ Transducer principle : dynamic ○ Pick-up pattern : Cardioid ○ Sensitivity : 2,1 mV/Pa 				
4.	<p>Supply and installation of Wireless Lapel Microphone Set with the specification of the make Sennheiser(EW 100 G4-ME4) or equivalent</p> <ul style="list-style-type: none"> ● Include EM 100 G4 true diversity receiver or equivalent ● Include SK 100 G4 bodypack transmitter or equivalent ● Include GA 3 rack mount set or equivalent ● Should include rack mount set ● Include ME 4 clip-on microphone or equivalent <ul style="list-style-type: none"> ○ High speech intelligibility ○ High feedback rejection ○ Easy attachment on clothing ○ Pick-up pattern : Cardioid 		2 No.		
5.	<p>Supply and installation of Head-worn Microphone (Color : Beige) with the specification of the make Sennheiser(HSP4) or equivalent</p> <ul style="list-style-type: none"> ● Modular overall system, i.e. all system components are easily interchangeable and combinable ● Excellent feedback rejection ● Microphone includes a detachable cap as integral wind/popshield ● Individually adjustable to all head sizes ● Twist-proof microphone boom (Ø 2.0 mm), can be attached to the left or right side (removable attachment clip) ● Flexible gooseneck section ● Connection cable can easily be interchanged ● Attachment clip for microphone boom can be interchanged ● All metal parts coated in a physical vapour deposition process 		2 No.		


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	<ul style="list-style-type: none"> ● Color : Beige ● Should support Sennheiser EW 100 G4 and Line item A4 : Wireless Lapel/Headworn Microphone. 				
6.	<p>Supply and installation of HD Dual Channel System 2-Ch 2 analog I/O w/o mic with the specification of the make Revolabs (04-HDDUALEU-NM) or equivalent</p> <ul style="list-style-type: none"> ● Should work/compatible with Line item 07 { Revolabs (03-HDEXEMICEU-11)} ● Radio Frequency: <ul style="list-style-type: none"> ○ 02-HDSGL:1.92 to 1.93 GHz ○ 04-HDSGLEU:1.88 to 1.90 GHz ○ 04-HDSGLUCN:1.90 to 1.92 GHz ○ Maximum Output:15.7dBm 37.15mW ○ Channel spacing:1.728 MHz ○ Modulation:GFSK ○ Class:ISM ● Connectors <ul style="list-style-type: none"> ○ Base Station Audio:3.5mm Balanced (2 In & 2 Out) ○ Firmware Port:Mini-USB ○ Charger Base:DC power input port, Proprietary 4 pin microphone charge jacks ○ Microphone:Proprietary 4 pin charge plugs, 2.5mm mono earplug port (16 ohm) ● Power Requirements: <ul style="list-style-type: none"> ○ Base Station:5V DC, 1 Amp ○ Charger Base:5V DC, 2 Amps ○ Range:150' (46 meters) approx. ○ Battery Lithium Polymer, Up to 8 hours approx. talk time ○ Charge Time:2 hours approx ● Audio Bandwidth:50-14,000 Hz ● Security:128-bit DSAA, 64 bit DECT Standard Cipher ● Included Accessories:1 Earpiece with inline volume control and 1 Lanyard per Wearable Microphone 		2 No.		


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	<ul style="list-style-type: none"> operating Temperature: 40° to 105° F (5° to 40° C) Humidity 20% to 85% 				
7.	<p>Supply and installation of HD Wearable Microphone with the specification of the make Revolabs (03-HDEXEMICEU-11) or equivalent</p> <ul style="list-style-type: none"> Should work/compatible with Line item 06 { Revolabs (04- HDDUALEU-NM)} Radio Frequency: <ul style="list-style-type: none"> 01-HDEXEC:1.92 to 1.93 GHz 03-HDEXECEU:1.88 to 1.90 GHz 03-HDEXECCN:1.90 to 1.92 GHz 03-HDEXECJP:1.895 to 1.903 GHz Maximum Output:15.7dBm 37.15mW Channel spacing:1.728 MHz Modulation:GFSK Class:ISM Connectors <ul style="list-style-type: none"> Base Station Audio:mini-Phoenix (3.5mm) quick connect terminal blocks (8/4 In & Out) Sync BUS In/Out:mini-Phoenix (3.5mm) quick connect terminal block Diversity Antenna:SMA Plug Female Base, Male Antenna (50 ohm) Control Port:DB9 Socket Ethernet:RJ45 Charger Base:DC power input port, Mini-USB, Proprietary 4 pin microphone charge jacks Microphone:Proprietary 4 pin charge plugs, 2.5mm mono earplug port (16 ohm) Power Requirements <ul style="list-style-type: none"> Executive Base Station:100-240V AC, 50-60 Hz, 20W peak Charger Base:24V DC, 2 Amps Range:300' (90 meters) approx. Battery: Lithium Polymer, Up to 8 hours approx. talk time Charge Time:2 hours approx. 		4 No.		


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	<ul style="list-style-type: none"> • Audio Bandwidth:50-14,000 Hz or 50-12,000 Hz (Max Density Mode) • Security:128-bit DSAA authentication, 64 bit DECT Standard Cipher • Included Accessories:1 Earpiece with inline volume control and 1 Lanyard per Wearable Microphone • operating Temperature: 40° to 105° F (5° to 40° C) • Humidity:20% to 85% 				
8.	<p>Supply and installation of Digital media HDMI receiver with the specification of the make Crestron(DM-RMC-4KZ-100-C) or equivalent</p> <ul style="list-style-type: none"> • Video Input Signal Type: DM 8G+ & HDBaseT w/HDR10, Deep Color, 3D, & 4K60 4:4:4 support • Video Output Signal Type: HDMI w/HDR10, Deep Color, 3D, & 4K60 4:4:4 support [2] (DVI compatible [3]) • Video Copy Protection:HDCP 2.2 • Progressive 4096x2160 DCI 4K, 3840x2160 4K UHD,2560x1600 WQXGA, 1920x1080 HD 1080p • Interlaced: 1920x1080 HD 1080i • Audio Input:Signal Type:DM 8G+, HDBaseT • Audio Output:Signal Type:HDMI • Audio Formats:Dolby Digital,Dolby Digital EX,Dolby Digital Plus,Dolby TruHD, Dolby Atmos, DTS,DTS ES,DTS 96/24,DTS HD High Res,DTS HD Master Audio,DTS:X,LPCM up to 8 channels • Should be HDBaseT Certified and can connect to HDBaseT certified equipment • Communication <ul style="list-style-type: none"> ○ DigitalMedia: DM 8G+, HDCP 2.2, EDID, CEC, PoDM, Ethernet ○ HDBaseT:HDCP 2.2, EDID, CEC, RS-232, PoE, Ethernet ○ HDMI:HDCP 2.2, EDID, CEC 		2 No.		


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9.	<p>Supply and installation of Professional 100MTR 3 Pair 8 channel shielded Analog cable - PVC Black Outer Jacket with the specification of the make klotz(PW08X.100) or equivalent</p> <ul style="list-style-type: none"> ● Construction <ul style="list-style-type: none"> ○ cond. construction:stranded tinned copper, 7 x 0.20 mm ○ cond. cross section:0.22 mm² ○ insulation: XLPE, red & blue ○ core arrangement:twisted ○ pair shielding:stranded tinned copper drain wire + AL/PET foil ○ pair jacket:PVC, color coded in steps of 8 pairs and numbered consecutively ○ cable stranding: n pairs twisted in layers ○ outer jacket: PVC, soft, matt ● min. bending radius:5x overall diameter ● working temperature:-20°C / +70°C ● conductor resistance : < 85 Ω/km ● capacitance <ul style="list-style-type: none"> ○ cond./cond. 85 pF/m ○ cond./shield 170 pF/m ● crosstalk attenuation:> 15 kHz / 100 dB ● insulation resistance:> 50 GΩ x km ● voltage handel <ul style="list-style-type: none"> ○ cond./cond. 1000 V ○ cond./shield 500 V 		1 No		
	<p>*Optional but mandatory to quote:</p>				
10	<p>4 year of comprehensive onsite warranty and support*</p>				
11	<p>5 year of comprehensive onsite warranty and support*</p>				
	<p>*Optional but mandatory to quote. Quantities mentioned are tentative</p>				
12	<p>Professional 15MTR HDMI K–Lock Pull–Resistant Connector(M) Patch Cable with the specification of the make Krammer or equivalent with minimum 7-years OEM warranty**</p>		10 No		




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13	Professional 1.5MTR HDMI K-Lock Pull-Resistant Connector(M) Patch Cable with the specification of the make Kramer or equivalent with minimum 7-years OEM warranty**		20 No		
14	DVI-D(M) to HDMI(F) Adapter Cable with the specifications of the make Kramer (ADC-DM/HF) or equivalent with minimum 7-years OEM warranty**		10 No		
15	Supply Professional 100MTR Microphone signal cable - PVC Black Outer Jacket with the specification of the make klotz(MY206) or equivalent**		1 No		
	Sub Total				
	Add: GST				
	Total Amount in Rupees				

Signature, Name, Address and
Seal of the proprietor / Managing Partner etc.

Name:

Seal of the Company:

Designation:

Signature:

Date:

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


Authorized Signatory
Administrative Officer - 'D'
**International Centre for Theoretical Science
Tata Institute of Fundamental Research**
**Survey No. 151, Shivakote,
Hessarghatta Hobli, Bangalore - 560 06**