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Tata Institute of Fundamental Research**
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ENQUIRY

Ref: NCB/CA17-243/163287

February 22, 2018

Dear Sirs,
Please let us have your Quotation for the following :

Sl. No.	Item Description	Qty
1	<p>Video Conference Equipment</p> <p>Specifications:</p> <ol style="list-style-type: none"> 1. The system should support Video Standard and Protocols H 261, H 263, H 264 High profile, H 323 Protocols, TIP, SIP. 2. The system should have video Inputs for 2 Camera Inputs, 2 HDMI Inputs, 2 S-video Inputs, 1 DVI-I Inputs, 2 RCA Video inputs. 3. The system should have 1 HDMI output, 2 DVI-I HD Video out, 1 S-video Out. 4. The system should have people Video Resolution up to 1080p, 60 fps from 832 Kbps. 5. The system should support content video Resolution from HD (1920 x 1080) to VGA (800 x 600). 6. The system should support content output resolution of 1080p, 720p, 1024 x 768. 7. The system should have the camera of Eagle Eye or Similar with 20x Zoom option with cables option for 2 cameras to be connected. 8. The system should provided with PTZ Camera with 1080p True HD camera, -100/ +100 deg PAN and -30 to +30 deg Tilt range, 20x Zoom option, Automatic gain control. 9. The system should have 3 audio Inputs with 3 Microphones provided , 1 stereo (3.5mm jack input), 2 Line level stereo inputs (RCA), 1 VCR / DVD stereo audio input (RCA). 10. The system should have audio Outputs of <ul style="list-style-type: none"> Two RCA (L / R) for I Monitor for connecting to main monitor. Two RCA (L / R) for VCR – for connecting to video recorder. 11. The system should be equipped with audio standard protocols and features as follows Stereo sound effects, 22 KHz/ 16 KHz, High Definition audio, Three-way audio add-on call capability in the speakerphone, Packet loss concealment, Full duplex for natural conversations, Echo cancellation for echo-free calls, Automatic gain control, Automatic noise reduction. 12. The system should have following features in built in the codec <ul style="list-style-type: none"> Auto Gain control, Automatic Noise suppression. 30 frames per second from 128 kbps. Should be possible to have good video display at minimum data rate Should have user friendly graphical user interface. Should support of PPPoE protocol. Should have Multi Level passwords apart from Admin password. Minimum 20 Local preset positions to focus on local Participants and Remote preset positions to focus on Remote participants. Should have 16:9 video support format for better lengthy video window. Should be possible to reselect the page for incoming and outgoing calls. Should support Do not disturb and when active your system should not ring and all incoming calls shall be rejected. 13. The system should work on H 323 Network protocol, SIP Protocol up to 6 Mbps, 10/100 auto NIC (RJ 	1 No

45).

14. The system Should have RS 232 camera controls, Data pass through option available.
15. The system should have PIP function in order to view the local video and other far end sites in any convenient corner.
16. The system should be supplied with Cameras with cables, Microphones with cables required for its functional.
17. The offer should include the Multipoint Option with License key for 4 Parties and more.
18. The system should be supplied with Infra Red remote control for user friendly operations.
19. The system should have 2 Ethernet Ports (2 RJ45) of full duplex with integrated switch for connecting IP network on one port and Laptop on another port.
20. The system should be supported with DUAL MONITOR emulation option to enable to transmit and view the Presenter and Presentation or local and remote sites in TWO Dual Monitor emulation on a single monitor (PaP) separate monitors.
21. Provide the reference of places where the quoted Video conference system is installed.
22. The system should be supplied with all the accessories required to function
23. The system should be supplied with required Audio, video, power, camera, mike, LAN Cables etc.
24. The system should be CE / ISO Certified.
25. The system should be supplied with the warranty period for 3 Years.

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Audio Conference Equipment

1 No

Specifications:

1. The system should be equipped with the latest technology to deliver the crystal clear conversation to make the conference call more productive supported.
2. The system should be equipped with intelligent microphones and Dynamic Noise reduction technology.
3. The system be free from interference from mobile phones.
4. The system should have backlight display.
5. The system should have ability and option to increase microphone sensitivity.
6. The system should have facility for Internet calling over IP.
7. The system should be compatible with Analogue extension lines, Digital extension lines and IP lines and should be user friendly in connection.
8. The system should have keypad with the dialling number, redial, conference buttons etc.
9. The system should have at-least 3 cardioids microphones to pick the voice from the distance of approx 10 to 15 feet.
10. The system should have built in loud speaker system with the frequency response of 300 to 4000 Hz with volume increase and decrease option.
11. The system should have reverberation time of < 0.4 seconds.
12. The system should support multiple caller ID standards.
13. The system should have auxiliary audio jacks.
14. The system should be supplied with the cord and cord should be minimum 7-meter length.
15. The system should be supplied with the all the accessories required for the functioning of the equipment.

3	<p>16. The system should be CE/ ISO certified. 17. The system should be under warranty period of three years.</p> <p>Handheld Audio Recorder</p> <p>Specifications:</p> <ol style="list-style-type: none"> 1. System should be Handheld Stereo Recorder. 2. System should have built-in memory of at least 4 GB. 3. System should support external storage of Micro SD card and should be expandable up-to 64 GB. 4. System should have backlit LED display. 5. System should have the recording bit rate of 320 Kbps in mp3 format. 6. System should have dual channel for the purpose of stereo recording. 7. System should have a good frequency response of 20 Hz to 20 KHz. 8. System should have a excellent Signal to Noise ratio. 9. System should have a good dynamic range to pick the audio from the distance of 10 meter with Omni directional microphones built-In 10. System should have 3.5 mm Mic Input 1 x 3.5 mm Line Input. 11. System should have 3 x Built-In Condenser Microphones. 12. System should have 1 x 3.5 mm Remote Input. 13. System should have 1 x 3.5 mm Stereo Headphone/Line Out Jack. 14. System should have Mini/ Micro USB for data retrieve. 15. System should have the battery backup of 24 Hrs based on the recording mode. 16. System should have option for both AA Battery and power of 5V DC to operate. 17. System should be supplied with the required accessories for the complete functioning of the system. 18. System should be supplied with the AA size rechargeable battery and should be included in the offer. 19. System should be CE/ ISO Certified. 20. System should be under the Warranty period of 1 years. 	1 No
	<p>NOTE : 1. Please attach AUTHORIZATION LETTER/PROPRIETARY CERTIFICATE from your Principle supplier with quotation.</p> <p>2. IMPORTANT NOTE: NCBS-TIFR is a public funded research institute and is entitled to concessional rate of GST @ 5% for items supplied for research purpose vide notification no. 45/2017 dated 14th Nov, 2017 . The offer should be submitted after fully considering the above notification.</p>	

1. The bids shall be enclosed in an envelope and due date sealed duly marked Tender for Ref No: 163287. The bids should be addressed and to be mailed to 'THE HEAD-PURCHASE'.

The bids are liable to be rejected if the sealed envelope is not addressed to “THE HEAD-PURCHASE” with Tender Ref No. and Item Description and due date. The bids delivered in person shall be dropped in Purchase Section. If the bids are sent through courier or mail, it should reach by submission date and time and NCBS will not be responsible for the delay.

2. DUE DATE FOR SUBMISSION OF QUOTATION AGAINST THIS ENQUIRY IS 28/02/2018.

3. QUOTATIONS RECEIVED AFTER THE DUE DATE SHALL BE REJECTED.

4. The validity of your quotation should be for 60 days from the due date.
5. All duties, taxes, surcharge and cess as currently applicable must be stated in your quotation, separately. Otherwise your quote is liable to be rejected.
6. Your quotation should indicate delivery period & warranty period.
7. Delivery to be made to our stores. Please indicate charges, if any extra. Transit Insurance should be done upto NCBS Stores.
8. If you are unable to supply the quality, specifications or brand as mentioned in our enquiry, please state so and then offer alternative to quality/specifications.
9. Payment: within one month after delivery & acceptance/satisfactory installation.
10. Please ensure that the enquiry number and the due date is superscribed on the envelope failing which your quotation is liable to be rejected.
11. Since we are a public funded research institution, we are exempted from paying Customs duty (Except ad valorem duty of 5% + 2% Cess and 1% Cus Sec & High Edu. CESS vide Notification No. 51/96 with latest amendments) and excise duty vide Notification No. 10/97 CENTRAL EXCISE dated 01-03-1997 for all scientific equipments, technical instruments, equipments (including computers), their accessories, spares, consumables and software. Hence, please offer your prices
- 12. If the item is covered under DGS&D rate contract, please quote the rate as per the DGS&D rate contract with xerox copy of the DGS&D order.**
13. 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.
- 14. The quotations may be submitted in USD, Euro, GBP, JPY and any tradable currency.**

Yours faithfully
For and on behalf of
National Centre for Biological Sciences



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