



TATA INSTITUTE OF FUNDAMENTAL RESEARCH

(Autonomous Institution of the Department of Atomic Energy, Government of India)

TIFR Centre for Interdisciplinary Sciences

Survey No. 36/P, Gopanpally village, Serilingampally Mandal, Ranga reddy Dist., Hyderabad - 500107

Phone: 040-2020 3020, Email: jrathna@tifrh.res.in

Ref: TFR/PD/CA19-23/19023

Date: 17-01-2020

To,

— Limited Tender —

Vendors

Dear Sir/Madam,

Please submit your Quotation for the following:

S.No	Description	Qty.
1	The scope of work in brief includes, supply, installation, testing, commissioning, integration and training on video conference equipment to build state of the art E-class room. It is mandatory for the bidder to visit the site to understand the site requirement before bidding for the project. The equipment's to be supplied and commissioned in TIFR Hyderabad campus at, 36/P, Gopanpally Village, Serilingampally Mandal, Hyderabad - 500107. Preamble, Scope of Work, Terms and conditions of the inquiry, other conditions of the inquiry, support and technical requirements, Technical Specifications, Site Visit Form, Compliance Sheet and Bill of Materials as per Annexure – A. (attached in Annexure)	1 Job

Site Visit: All the vendor/partner must visit TIFR, Hyderabad Campus (21st to 23rd January, 2020, timing 10AM to 5PM)

Both Technical Bid (Part A) and Financial Bid (Part B) to be submitted within the due date and time in separate envelopes and marked on top as Part A and Part B. These two sealed envelopes should be further put in one Master Envelope super scribed with the Tender No., Due Date in Bold Letters.

Please see attached sheet for terms and conditions of the tender.

Payment terms: - 100% payment within 30 days against signed invoice, after receipt, acceptance of the material and successful installation, testing, commissioning, integration and training on video conference equipment to build state of the art E-class room at TIFR-Hyderabad.

Please mention your GST Registration numbers on the quotation, Proforma Invoice and Bills. Quotation should indicate make, delivery period, guarantee/warranty exact taxes applicable, etc. The payment will be made only after delivery of the supply, satisfactory installation, commissioning and performance of the item/equipment. No Advance payment will be made except in case of furnishing valid Bank Guarantee from any nationalized/scheduled bank the B. G. shall be valid till the complete delivery is made at the site.

Quotation should be submitted in sealed envelope duly superscribing our enquiry reference and due date.

TIFR is a public funded research institute and is entitled to concessional rate of GST @ 5% for certain items supplied for research purpose vide notification no. 47/2017 dated 14th Nov, 2017. The offer should be submitted after fully considering the above notification.

Quotation sent by hand delivery / courier are to be deposited in the Tender Box kept at the Main Gate after obtaining stamp, date and signature of the Security Officer.

Due date for submitting your offer is 06.02.2020 at 13:00 Hrs.



Yours faithfully


(J.Rathna)
Administrative Officer

**TATA INSTITUTE OF FUNDAMENTAL RESEARCH
Hyderabad**

INDEX

1) Preamble.....	2
2) Scope of work.....	2
3) Terms and conditions of the inquiry	2
4) Other conditions of the inquiry.....	3
5) Support and technical requirements.....	4
6) Technical specifications.....	6
7) Site Visit Form.....	12
8) Compliance sheet.....	13
9) Bill of Materials	15



1

1.0 Preamble:

TIFR Hyderabad is a premier research institute located in Gopanpally Hyderabad, India. To reap the benefits of technology, it is proposed to build E-class room. This inquiry is for supply, installation and testing of video conference equipment and accessories. **The proposed solution should be fully compliant for dual stack, IPv4 and IPv6 communication from day one.**

2.0 Scope of work:

The scope of work in brief includes, supply, installation, testing, commissioning, integration and training on video conference equipment to build state of the art E-class room. It is mandatory for the bidder to visit the site to understand the site requirement before bidding for the project. The equipment's to be supplied and commissioned in TIFR Hyderabad campus at, 36/P, Gopanpally Village, Serilingampally Mandal, Hyderabad - 500107.

Contact persons:

Following are the contact persons for this inquiry.

Mr. Suman Saurav, Scientific Officer, 040-20203095, suman@tifrh.res.in

Mr. Kalyan Kumar N, Scientific Officer, 040-20203094, kalyankn@tifrh.res.in

3.0 Terms and conditions of the inquiry:

a) Both Technical Bid and Commercial Bid should be submitted before the due date. Two bid system: The bidder has to sign and seal all the pages of the inquiry document and Bill of Material (BOM) before submitting the bid.

Both Technical Bid (Part A) and Financial Bid (Part B) to be submitted within the due date and time in separate envelopes and marked on top as Part A and Part B. These two sealed envelopes should be further put in one Master Envelope super scribed with the Tender No., Due Date in Bold Letters.

PART "A" (Technical Bid) consisting of Technical Bid with Commercial Terms and PART "B" (Financial Bid) consisting of only Price shall be submitted in separate sealed envelopes duly superscribed with the tender enquiry number, and the due date in bold letters, addressed to the Administrative Officer, Tata Institute of Fundamental Research, Plot No.36/P, Gopanpally Village, Serilingampally Mandal, Ranga Reddy District. Hyderabad-500 107, Telangana, India. The envelopes should be clearly marked on top as either PART "A" or PART "B".

The two sealed covers should be further put in a master cover superscribed with the Tender Enquiry No., Due Date in bold letters, addressed to the Purchase Officer, Tata Institute of Fundamental Research, Plot No.36/P, Gopanpally Village, Serilingampally Mandal, Ranga Reddy District. Hyderabad-500 107, Telangana, India. The sealed master envelop has to be delivered by hand/courier at the security Gate Office of TIFR-TCIS on or before 13:00 hrs on the due date specified.

b) Only technically qualified supplier meeting all the criteria will be qualified for further purchase processes. Supplier can request for a site visit to get complete understanding of the requirement.



- c) The validity of the price bids should be at **least 90 days** from the date of opening of technical bid. If required, should extend the price validity.
- d) The supplier shall bear all costs associated with the preparation and submission of the bids. TIFR will not be responsible or liable for part or all of those costs under any circumstances.
- e) Supplier should have **experience of five (5) years** in system integration and should have a team of qualified and experienced engineers to handle the project. Details of local technical manpower should be submitted with the technical bid. Supplier should have full-fledged office and support personnel stationed in Hyderabad. Relevant documents should be submitted to support this clause.
- g) To qualify to bid for this inquiry, supplier should have given Video Conferencing (VC) / E-class room/ Auditorium VC solutions to **three customers in India**. Purchase order copies and contact details of the technical person(s) (customer end) associated with the order should be part of the submission. TIFR-H will have right to check on quality of technical services and support with your customers who have given orders for supply of VC equipment. The projects must be pertaining to installation and commissioning of VC equipment in an enterprise environment. Copies of purchase order and commissioning report (customer acceptance report) have to be submitted.
- h) Supplier should do Proof of Concept (PoC) at TIFR-H with the proposing solution and take the sign of technical personnel. This is compulsory to all the bidders. Bids which are not complying this PoC by bidders will not be considered as qualified bids.** For any further details, please contact to itproc@tifrh.res.in .
- i) TIFR reserves the right to accept or reject any or all bids.
- k) The Bidder shall also be responsible for proposed solution, successful project implementation and post installation support.
- l) Obsolete or near end of sale products will not be accepted.
- m) The supplier should not be currently blacklisted by any corporate/central/state government department / public sector unit. Bidder should provide self declaration of the same.
- n) The price quoted should be firm and final. Under no condition price escalation is allowed. Only one solution should be proposed with price bid. Quoting multiple solutions with multiple price bid will lead to rejection of the bid.
- o) **Performance Bank Guarantee:** Performance Bank Guarantee for 10% of the value of supply should be provided and it should be valid for 60 days beyond the date of completion of all contractual obligations of the supplier including warranty period. Performance Bank Guarantee should be from Nationalised Bank. In case Performance Bank Guarantee is not provided, 90% payment only would be released and balance after 60 days beyond the date of completion of all contractual obligations of the supplier including warranty period. Vendor should clearly mention their acceptance to this effect in their quote.
- p) TIFR is exempted from paying of Custom Duty under the notification No.51/96 dated 23.07.1996, Excise Duty under the notification No.10/97 dated 01.03.1997, for all procurements/supply meant exclusively for Educational, scientific and research purpose. Whenever



the exemption certificate not honored by the authorities, the applicable duty will have to be paid. Hence Excise & Custom duties, if any, should be shown separately.

TIFR is a public funded research institute and is entitled to concessional rate of GST @ 5% for certain items supplied for research purpose vide notification no. 45/2017 (CGST) and 45/2017 (IGST) dated 14th Nov, 2017. The offer should be submitted after fully considering the above notification.

q) TAXES: TIFR does not have any exemption/concession on payment of Sales Tax and we are not authorized to issue any Sales Tax Form 'C' & 'D'.

Deduction of Indian Income Tax Deduction at Source: The Deduction of Indian Income Tax Deduction at source (TDS) will be deducted as per IT Act. The taxes at the time of actual utilization of service etc. will be deducted if applicable any.

GST rule will be applicable with effect from 01.07.2017. The applicable TDS /other charges if any as per GST rule will be deducted as per new GST regime.

TIFR-Hyderabad GST NO: 36AAATT3951F2ZG.

r) Bidders, please provide the PAN No., Bank Details, email ID, Contact person details, GST No etc.

s) COMMENCEMENT OF WARRANTY PERIOD: The warranty period of an item shall commence from the date of receipt of the item in good working condition and satisfactory installation/commissioning/demonstration at the project site.

t) OBSERVANCE OF LOCAL LAWS: Wherever applicable (particularly for Local vendors), the vendor / contractor shall comply with all law, statutory rules & regulations etc. The vendor/ contractor shall obtain all necessary permits / approval from the local Governing Body, Police, and other concerned Authorities as may be required under law. The vendor /contractor shall pay all types of taxes, fees, license charges, deposits, duties, tolls, royalty or other charges that may be leviable account of any of the operations connected with the execution of this work/ contract.

u) In case of any interpretational issues arises in this tender, the interpretation/decision of TIFR Hyderabad shall be final and binding on the bidder.

4.0 Other conditions of inquiry:

a) All submissions in response to this inquiry shall be submitted in a sealed envelope within the due date. Late submissions will not be accepted. Quoted equipment and accessories should have OEM part no. Supplier should attach only relevant catalogues / leaflets / brochures of the proposed equipment. Incomplete submissions not complying with the requirements are liable for rejection. Bids submitted without supporting documents will be summarily rejected.

b) The proposal shall be valid for acceptance by the purchaser for 90 (Ninety) days from the date of technical bid opening and shall be extended by such period as may be needed for finalization of order.



Delivery Period: Please mention the delivery period of equipment and materials for Installation and commissioning in the quotation. The delivery period should be ensured by the supplier from the date of purchase order.

c) Liquidated Damages: The complete project implementation shall be completed within 2 (two) weeks from the date of delivery period as mentioned in quotation, failing which liquidated damages at a rate of 1% of P.O. value per week of delay of commissioning beyond the stipulated period with an upper ceiling of 10% of the purchase order amount for all delays which do not merit any extension of time, will be levied. The countdown for commissioning will start from the date of delivery period. The liquidated damages shall be recovered from the payment due to supplier from this or any other contract with the purchaser.

d) On-site hands-on training to TIFR-H staff for all the equipment supplied to be conducted by the supplier / OEM.

e) Deviation from the specifications: The offer shall be made conforming to the specifications of this inquiry. Any deviation from the specifications shall be clearly brought out in a separate sheet. The bidder shall not make any addition / alteration in the text of the specifications. TIFR-H reserves the right to accept or reject the deviation.

f) In case of any interpretation issues arising in this inquiry, the interpretation / decision of TIFR-H shall be final and binding on the supplier.

g) The purchaser reserves the right to accept or reject any or all bids either in full or in part without assigning any reasons thereof.

h) The quantity and line items are tentative and may change at the time of ordering. Quote for optional items are mandatory.

i) Technical and price bid should have OEM part number for each proposed item.

j) Bundled prices are not accepted, each line item should have a price.

k) TIFR-H is a non-profit academic institute, OEM and suppliers to consider special pricing.

l) As purchaser, TIFR-H has full right to split the order if required.

m) All clarifications are to be sought officially over e-mail / letter addressed to purchase officer. Verbal clarifications / approvals will not be considered.

5.0 Support and technical requirements:

a) The proposed solution, hardware and software, shall be covered under **comprehensive onsite warranty for five years (5) from the date of final signoff by TIFR-H**. Release of new version of operating system, application, firmware, bug fix patches etc. for the supplied equipment should be patched / upgraded for stability and security of the system by supplier / OEM team. Supplier / OEM support team should advise and support this activity during the warranty period. During



warranty period supplier team should upgrade and update the equipment to higher versions of firmware and operating system as and when released by the manufacturer.

b) All supplies, hardware and software, shall have comprehensive five years onsite support with OEM service window 8x6 (hrs x days), with NBD advance spare parts replacement.

c) Necessary mounting brackets, railings, power chord, cables etc. should be part of the proposal.

d) The proposed hardware and software should be fully compliant to dual stack, IPv4 and IPv6, functioning from day one.

e) All equipment should be rated for single phase 220 - 240 V, 50 Hz AC supply.

h) Supplier / OEM should conduct preventive maintenance as recommended by the manufacturer or as required depending on the site condition during the warranty period.

i) The scope of work includes cabling, labelling and dressing of cables.

j) Vendor should have office/ Support center in Hyderabad.



A handwritten signature in blue ink, consisting of a stylized initial 'S' followed by a checkmark-like flourish.

6.0 Technical Specifications:

(For quantity refer Bill of Materials (BOM))

S.No	Item	Description	Preferred Make
1	4KDisplay Screen / Monitor	<p>Screen Size (Diagonal) / Aspect ratio : 139.7 cm (55 inches) / 16:9</p> <p>Panel Type : IPS Panel / D-LED</p> <p>Resolution (H × V): 3840 × 2160 pixels</p> <p>Brightness : 400 cd/m² or more</p> <p>Viewing Angle (Horizontal/Vertical) : 178 / 178° or more</p> <p>HDMI In : min HDMI 1.4 (Type A) × 1 / HDMI 2.0 (Type A) ×1</p> <p>DVI-D In : x1 / PC In: Mini D Sub 15-pin ×1 PC Audio In: × 1</p> <p>USB 3.0 / USB 2.0 × 1 or more</p> <p>Component (YPbPr) AV In x 1</p> <p>Built-in Speaker minimum 20 W (10 W + 10 W) or more</p> <p>Orientation : Landscape / Portrait</p>	LG/Panasonic/Samsung/BenQ/equivalent
2	4KDisplay Screen / Monitor	<p>Screen Size (Diagonal) / Aspect ratio : 165.1 cm(65 Inch) / 16:9</p> <p>Panel Type : IPS Panel / D-LED</p> <p>Resolution (H × V): 3840 × 2160 pixels</p> <p>Brightness : 500 cd/m² or more</p> <p>Viewing Angle (Horizontal/Vertical) : 178 / 178° or more</p> <p>HDMI In : min HDMI 1.4 (Type A) × 1 / HDMI 2.0 (Type A) ×1</p> <p>DVI-D In : x1 / PC In: Mini D Sub 15-pin ×1 PC Audio In: × 1</p>	LG/Panasonic/Samsung/BenQ/equivalent



		<p>USB 3.0 / USB 2.0 / 1 or more</p> <p>Component (YPbPr) AV In x 1</p>	
3	CAMERA	<p>Video modes: Full HD 1080p/60 fps</p> <p>Zoom: 12x optical zoom</p> <p>Focus adjustment: Auto</p> <p>Wide angle: 72.5° or more</p> <p>Presets: 12 or more</p> <p>Horizontal rotation: 170° or more</p> <p>Vertical rotation: 60° or more</p> <p>Digital video format: YUY 4:2:2, H.264, MJPEG</p> <p>Camera control: VISCA/UVC 1.5/ IR Remote</p> <p>Operating system: Windows 7, 8, 10, Mac OS X, Linux</p> <p>CONNECTIVITY: USB 3.0</p> <p>Power consumption: 12W (Max)</p>	Konftel/Clearone/Logitech/Polycom/Aver/equivalent
4	CAMERA(Wide Angle)	<p>Video modes: Full HD 1080p/60 fps</p> <p>Zoom: 8x optical zoom</p> <p>Focus adjustment: Auto</p> <p>Wide angle: 105°</p> <p>Presets: 12 or more</p> <p>Digital video format: YUY 4:2:2, H.264, MJPEG</p> <p>Camera control: VISCA/UVC 1.5/ IR Remote</p> <p>Operating system: Windows 7, 8, 10, Mac OS X, Linux</p> <p>CONNECTIVITY: USB 3.0</p> <p>Power consumption: 12W (Max)</p>	Konftel/Clearone/Logitech/Polycom/Avr/equivalent
5	HUB	<p>One Cable Connection, so a single USB cable is needed to connect the camera, the speakerphone and the room's screen to the collaboration app on laptop.</p> <p>Resolution upto: 2048x1152. Colors in 16Bits and 32 Bits</p> <p>Connections: 1 x USB 3.0 for computer connection, 2 x USB 2.0 for connecting conference cam and speakerphone and 1 x HDMI for connecting screen.</p>	Konftel/Clearone/Logitech/equivalent



6	USB Microphone & Speaker device	<p>Interface: Control Unit: USB 2.0 High Speed, Bluetooth, NFC Audio Input terminal (stereo RCA pin), Audio Output terminal (stereo RCA pin), External speaker terminal (RCA pin) x 2, Power terminal, Microphone terminal Microphone: Input and output terminals</p> <p>Signal Processing: Adaptive echo canceller, Noise reduction, Automatic tracking, Automatic gain control, Automatic room EQ, Dereverberation, Automatic audio tuning</p> <p>sound pickup range of 5m or more (Per microphone)</p> <p>Additional 4 or more microphone can be connected to the main unit.</p>	Yamaha/Konftel/Polycom/Clearone/Logitech/equivalent
7	Conference Phone	<p>Keypad: Alphanumeric 0-9, *, call/R, end call, mute, hold, volume up, volume down, line mode, conference guide / Phone book: Min 50 contacts.</p> <p>Put calls on hold. Call waiting. Park/retrieve calls (if supported by PBX). Move incoming calls. Request. Music on hold. Dial plan. Multi-party calls.</p> <p>CONNECTIVITY: Analog: 6/6 modular (RJ11) to a public analogue telecommunication network or analogue PBX.</p> <p>USB: USB 2.0 Mini B.</p> <p>Mobile cable connection: 6/6 connection to devices: Auxiliary: Modular 4/4 for wireless headset or PA system.</p> <p>Expansion microphones: 2 x modular 4/4 sound pickup range of 3m or more (Per microphone)</p>	Yamaha/Konftel/Polycom/Clearone/equivalent
8	TX & RX [HDMI]	<p>Video I/O: Tx-HDMI Input 1x via HDMI Connector, Rx-HDMI Output 1x via HDMI Connector</p> <p>Cat.5e/Cat.6 Cable I/O Tx - 1x via RJ45 Connector Cat.5e/Cat.6 Output : Rx - 1x via RJ45</p>	Liberty/Aten/TVone/kramer/equivalent



		<p>Connector Cat.5e/Cat.6 Input</p> <p>Additional Connectors (per unit) 2x 3.5mm mini-jack (Infrared)</p> <p>Video: Maximum Resolution HD up to 1080p@60Hz/36bit. UHD to 4k@30Hz. PC to WUXGA</p> <p>Range : 1 x Tx/Rx System 60m (197 ft.) at 1080p@60Hz 40m (131 ft.) at 4k@30Hz</p>	
9	TX & RX [USB]	<p>Video I/O: Tx-USB Input 1x via USB Connector , Rx-USB Output 1x via USB Connector</p> <p>Cat.5e/Cat.6 Cable I/O Tx – 1x via RJ45 Connector Cat.5e/Cat.6 Output : Rx – 1x via RJ45 Connector Cat.5e/Cat.6 Input</p> <p>Additional Connectors (per unit) 2x 3.5mm mini-jack (Infrared)</p> <p>Video: Maximum Resolution HD up to 1080p@60Hz/36bit, UHD to 4k@30Hz, PC to WUXGA</p> <p>Range : 1 x Tx/Rx System 60m (197 ft.) at 1080p@60Hz 40m (131 ft.) at 4k@30Hz</p>	Liberty/Aten/TVOne/kramer/equivalent
10	Control Processor	<p>Control Engine: real-time, preemptive multi-threaded/multitasking kernel; Transaction-Safe Extended FAT file system; supports up to 10 simultaneously running programs</p> <p>Memory : SDRAM: 512 MB Flash: 4 GB Memory Card: Supports SD and SDHC cards up to 32 GB Ext Storage: Supports USB mass storage devices up to 1 TB</p> <p>Communication: Ethernet: 10/100 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, industry-standard TCP/IP stack, UDP/IP, CIP, DHCP, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), FIPS 140-2 compliant encryption, IEEE 802.1X, SNMP, BACnet/IP [1], IPv4 or IPv6, Active Directory</p>	Creston/Extron/AMX



		<p>authentication, IIS v.6.0 Web Server, SMTP e-mail client</p> <p>USB: Supports USB mass storage class devices via rear panel USB 2.0 host ports. supports computer console via front panel USB 2.0 device port</p> <p>Communication Ports: Relay Output: 1 – 8: (2) 8-pin 3.5 mm detachable terminal blocks; Comprises (8) normally open, isolated relays;</p> <p>Rated 1 Amp, 30 Volts AC/DC;</p>	
11	4x4 4K HDMI Matrix Switch	<p>Video Input Interfaces 4 x HDMI</p> <p>Video Output Interfaces 4 x HDMI</p> <p>HDMI (3D, Deep Color, 4K);</p> <p>HDCP 2.2 Compatible;</p> <p>Consumer Electronics Control (CEC)</p> <p>Resolution : 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)</p> <p>Control</p> <p>RS-232 Connector: 1 x DB-9 Female</p> <p>Baud Rate: 19200, Data Bits: 8, Stop Bits: 1, Parity: No,</p> <p>Flow Control: No</p> <p>1 x Mini Stereo Jack</p> <p>Ethernet 1 x RJ-45 Female</p>	Liberty/Aten/TVOne/kramer/equivalent
12	IPAD	<p>10.2-inch Retina display</p> <p>32GB</p> <p>802.11ac Wi-Fi</p>	Apple/equivalent
13	Interactive Pen Display	<p>Size : 15.6"</p> <p>Accessories/spare parts : pen, 3-in-1 cable, VGA-HDMI adapter, HDMI-VGA adapter, pen nib set, pen tether, AC adapter</p> <p>Aspect ratio 16:9</p> <p>Resolution Full HD, 1920 x 1080 pixels</p> <p>Viewing angles (horizontal/vertical) 170° / 170°</p> <p>Luminance (brightness) 200 cd/ m²</p> <p>Full HD display</p> <p>Compatible with Windows 10/8.1/7 (32-bit, 64-bit), Mac OS X</p> <p>Can Project on Projector Directly</p>	WACOM/equivalent



Site Visit Form

All the Vendor/ Partner must visit TIFR-Hyderabad campus (21st to 23rd January, 2020 timing 10 AM to 5 PM)

- To Understand the existing infrastructure
- All the Items has to be integrated with existing infrastructure
- Must do the POC of at least microphone and Camera.
- Only Verified Items are allowed to quote

Name & Contact	Company Name

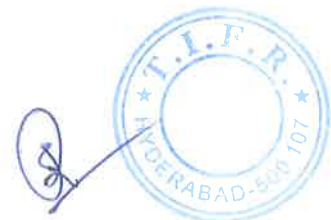
S.No	Items, Brand & Model No.

TIFR-H Personnel

Name:

Sign & Seal:

**** This is mandatory for all the Vendor to get technically qualified.**



Compliance Sheet

Pre-Qualification & Other			
S.No	<u>Item</u>	Yes/No	Comment
1	To qualify to bid for this inquiry, supplier should have given Video Conferencing (VC) / E-class room/ Auditorium VC solutions to three customers in India. Purchase order copies and contact details of the technical person(s) (customer end) associated with the order should be part of the submission.		
2	Supplier should do Proof of Concept (PoC) at TIFR-H with proposing solutions and take the sign of technical personnel.		
3	The proposal shall be valid for acceptance by the purchaser for 90 (Ninety) days from the date of technical bid opening and shall be extended by such period as may be needed for finalization of order.		
Technical Qualification			
S.No	Items	Yes/No	Comment
1	The proposed solution, hardware and software, shall be covered under comprehensive onsite NBD warranty for five years (5) from the date of final signoff by TIFR-H.		
2	Connectivity schematic diagram, for both E-classroom and Auditorium, are attached in technical Bid.		
E-Classroom			
S.No	Items	Yes/No (Make & Model)	Comment
2	4K Display Screen / Monitor (55")		
3	CAMERA (12x Zoom) (USB Cable length as per site requirement)		



4	CAMERA (Wide Angle) (USB Cable length as per site requirement)		
5	HUB		
6	Conference Phone cum Microphone with one Extension microphone (USB Cable length as per site requirement)		
Auditorium			
7	4KDisplay Screen / Monitor (65")		
8	CAMERA (12x Zoom) (USB Cable length using 2* USB TX & RX as per site requirements)		
9	HUB		
10	USB Microphone & Speaker device (1 Microphone with 4 extension mic)		
11	TX & RX (HDMI)		
12	4x4 4K HDMI Matrix Switch		
13	Control Processor		
14	Ipad (with Control Processor software and License for IPAD)		
15	Interactive Pen Display (With All accessories like pen, connecting cable etc)		



Bill of Materials (BOM)

S.No	Items	No	Unit Price	Tax	Total Price
E-Classroom					
1	4KDisplay Screen / Monitor (55")	1			
2	CAMERA (12x Zoom) (USB Cable length as per site requirement)	1			
3	CAMERA (Wide Angle) (USB Cable length as per site requirement)	1			
4	HUB	1			
5	Conference Phone cum Microphone with one Extension microphone (USB Cable length as per site requirement)	1			
Auditorium					
1	4KDisplay Screen / Monitor (65")	2			
2	CAMERA (12x Zoom) (USB Cable length using 2* USB TX & RX as per site requirements)	2			
3	HUB	2			
4	USB Microphone & Speaker device (1 Microphone with 4 extension mic)	1			
5	TX & RX (HDMI)	1			
6	4x4 4K HDMI Matrix Switch	1			
7	Control Processor	1			
8	Ipad (with Control Processor software and License for IPAD)	1			



9	Interactive Pen Display (With All accessories like pen, connecting cable etc)	1			
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Other Items

1	HDMI Cable 15m	4			
2	VGA Cable 15m	4			
3	HDMI Cable 5m	4			

INSTALLATION COMMISSIONING & Programming

1	To be Installed with existing projector , Speakers, Amplifier, DSP's, Microphones , etc as per TIFR-H requirement	1			
2	All the required cables be provided as per site	1			



Price Bid Format

TIFR Hyderabad Enquiry No & Date: _____

Due date: _____

Bidder's Quotation Ref No. & Date: _____

Financial Bid (Bidders must quote their rates using this Format)

S.No.	Item Description as per tender	Make/Brand /Type	Qty.	Rate per unit (Currency)	Basic cost of main item (In Currency)
A.					
B.	Ex-Works cost (Duly packed Airworthy/Seaworthy of international standard)				
C.	FOB /FCA Cost (Name of Airport_____)				
D.	CIP /CIF Cost (Upto Hyderabad Airport) (all inclusive i.e., Cost of Goods, Packing, Insurance, Inland transportation, freight, etc)				

Note:

1. All the column should be appropriately filled and not left blank.
2. Do not include any other charges, taxes, duties etc. in the Basic Cost of the item.
3. Any accessories, optional items should be shown separately using above format.
4. Use separate sheet for detail description, specification of the item, but prices should be quoted in same format.
5. Prices quoted in Indian Currency should be on F.O.R. basis and mentioned separately using different table format showing all the applicable taxes/Duties like GST, Freight & Transportation charges and installation charges etc.
6. TIFR Hyderabad being educational & research institute, discounted price shall be offered.

Signature of the Bidder

Name, Address contact no _____

& email id of the bidder/ _____

Company with company's Stamp or Seal _____

Date: _____

Place: _____



