



INVITATION LETTER

Package Code: TEQIP-III/2019/ntap/309

Current Date: 18-Jul-2019

Package Name: NIT/AP/TEQIP-1013/Smart classroom/2019-20

Method: Shopping Goods

To,
Vendors

Sub: INVITATION LETTER FOR NIT/AP/TEQIP-1013/Smart classroom/2019-20

Dear Sir,

1. You are invited to submit your most competitive quotation for the following goods with item wise detailed specifications given at Annexure I,

Sr. No	Item Name	Qty	Place of Delivery	Installation Requirement (if any)
1	Smart class rooms digital Teaching Device, DTD Cabinet, All-in-one HD Touch Led, INTERACTIVE WHITEBOARDS, IR BOARDS, AIR MOUSE, PROJECTORS Camera	1	NIT Arunachal pradesh	Required

2. Government of India has received a credit from the International Development Association (IDA) towards the cost of the **Technical Education Quality Improvement Programme [TEQIP]-Phase III** Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.

3. **Quotation**

- 3.1 The contract shall be for the full quantity as described above.
- 3.2 Corrections, if any, shall be made by crossing out, initialling, dating and re writing.
- 3.3 All duties and other levies payable by the supplier under the contract shall be included in the unit Price.
- 3.4 Applicable taxes shall be quoted separately for all items.
- 3.5 The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- 3.6 The Prices should be quoted in Indian Rupees only.

4. Each bidder shall submit only one quotation.

5. Quotation shall remain valid for a period not less than **60** days after the last date of quotation submission.

6. Evaluation of Quotations: The Purchaser will evaluate and compare the quotations determined to be Substantially responsive i.e. which

- 6.1 are properly signed; and
- 6.2 Confirm to the terms and conditions, and specifications.
7. The Quotations would be evaluated for all items together.
8. Award of contract The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.
- 8.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of Contract.
- 8.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be Incorporated in the purchase order.
9. Payment shall be made in Indian Rupees as follows:
- Satisfactory Delivery & Installation - 10% of total cost**
- Satisfactory Acceptance - 90% of total cost**
10. Liquidated Damages will be applied as per the below:
Liquidated Damages Per Day Min % : N/A
Liquidated Damages Max % : N/A
11. All supplied items are under warranty of **12** months from the date of successful acceptance of items and AMC/Others is **Required**.
12. You are requested to provide your offer latest by **05:30** hours on **07-Aug-2019**.
13. Detailed specifications of the items are at Annexure I.
14. Training Clause (if any) **Required**
15. Testing/Installation Clause (if any) **Required**
16. Performance Security shall be applicable: **0%**
17. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
18. Sealed quotation to be submitted/ delivered at the address mentioned below, **National Institute of Technology, Arunachal Pradesh, YUPIA-791112, ARUNACHAL PRADESH**
19. We look forward to receiving your quotation and thank you for your interest in this project.



(Sanjay Mandal)

Annexure I

Sl. No.	Item Description	Qty.
01	<p><u>System Body</u> Top & Body should be Metal with minimum 2mm Metal / steel sheet, powder coated color, All directional wheel The system should have a Top Sliding Mechanism and should be Metal / steel / MFD The angle of the tablet Monitor should be electrically adjustable with the help of Switch</p> <p><u>Touch Screen Monitor</u> The system should consist of 21.5" wide LED Touch Screen Monitor. The monitor should be LED backlit. The monitor should have a native resolution of 1920 x 1080 The monitor should come with a USB port for control and PC Connection. The monitor should support Win 7 or higher. The monitor should have an Electromagnetic Sensor Method. Contrase ratio: 1000:1 Response time minimum 5ms 16 million colors The monitor should support Power Supply of 100 ~ 250VAC.</p> <p><u>System Controller</u> Ethernet 10/100 Mbps, Full / Half Duplex, IPV4 Total 3 dedicated RS-232C Ports. (3-pin 3.81 mm detachable terminal; Bidirectional TTL/RS-232 (0-5 Volts) port with up to 115200 baud rate). RS-232/IR Hybrid Port: Total 2 RS-232C/IR Ports (3-pin 3.81 mm detachable terminal; Comprises IR/Serial output ports; Bidirectional TTL/RS-232 (0-5 Volts) port with up to 115200 baud rate when configured as serial; One-way IR output when configured as IR Emitter. Relay Switch Port Total 5 blocks (each 2-pin 3.81 mm detachable terminal; Comprises normally open, Non-Isolated relays; Rated 6 Amp, 230 Volts AC or 110 Volts DC max.</p> <p><u>Gooseneck Microphone</u> The Microphone should have a frequency response of 40 Hz to 20,000 Hz or better. The Microphone should have a Cardioids Polar Pattern. The Microphone should come up with standard 3 PIN XLR Connector. The Cartridge should be a 20mm Condenser</p> <p><u>Wireless Handheld & Lapel Microphone</u> Frequencies Response : 50 Hz-18000 Hz The microphone should have at least Step 8 Digital Variable Squelch Control Method</p>	1 Set
	<p>The microphone should have a ± 10ppm Frequency Stability. The microphone should have a Auto Scan Receive Mode. It should have Antennas 2 x 3dBi</p> <p><u>Amplifier</u> The Amplifier should consist of a 100 Watts (50 WattsX2) at 4 Ohms. The Amplifier should have S/N Ratio of >80dB.</p> <p><u>DSP</u> The DSP should have a 100% Full Duplex Echo Cancelling – no attenuation during full-duplex. It should have an Acoustic Echo Cancelling The processor should have a Noise Reduction It should have delay of 10msec or better Output : Balanced Out x2, Mixed Out x 1 Volume Control, 1x Line Input, 1 x Line Output, USB audio port, 1 x Microphone Input</p> <p><u>Notebook or Laptop Interface</u> VGA port, HDMI Port, Audio port, 2 USB Ports, Power Outlet.</p> <p><u>7 inches Touch Panel</u> It should have a resolution of 800X480. Touch screen with 2 GB internal memory Wi-Fi Interface.</p>	

	<p><u>Wall Mount Speakers</u> The System should come up with 4 Wall Mount Speakers. It should 25 Watt x 4</p> <p><u>Desktop Computer</u> Intel core i5 8th Gen Intel, Intel Chipset compatible to the processor, 8 GB Memory, Minimum 2 DIMM slot , 1TB HDD- 7200 RPM, NIC Gigabit Ethernet LAN 10/100/1000, DVD RW, 1 HDMI or VGA or display port, USB Keyboard and USB mouse, Internal power supply, Minimum 4 USB Ports Form Factor: SFF</p>	
02	<p>75 Inch Interactive Touch panel:</p> <p><u>Software</u> The touch interactive display shall have inbuilt onboard writing software that shall be installed in windows PC. Thus, this software shall have the capability to write something on the Interactive display and store in Windows PC. For which Touch interactive display shall also be supplied with specialized software which shall be installed in PC/Laptop. This software shall have various features of writing capabilities like Pen, Highlighter, laser pen, geometric pen, text pen and so on. The software shall also have features of Screen record, screen capture, import files, export files and saving the content in different versions and so on.</p> <p><u>Display Technology</u> TFT LCD Module with LED Backlight</p> <p><u>Active Screen size</u> 75" or Above</p> <p><u>Display Ratio</u> 16:09</p> <p><u>NATIVE Resolution of the display</u> 3840 x 2160p or Better</p> <p><u>Display Colour</u> 10 Bit or better</p> <p><u>Brightness</u> 360 cd/m2 or better</p> <p><u>Contrast</u> 3000:1 or better</p> <p><u>Horizontal & Vertical Viewing Angle</u> 178 ° or better viewing angle</p> <p><u>Response Time</u> Not more than 8 ms</p> <p><u>Refresh Rate</u> 60Hz</p> <p><u>Lifetime</u> 30,000 hours or more</p> <p><u>Deployment of Touch Technology</u> Touch feature should be seamlessly build-in the display and NO overlay is allowed</p> <p><u>No. of Touch Points</u> 20 Points or more</p> <p><u>Touch Resolution</u> 32767 x 32767 or better</p> <p><u>Touch Sensor</u> Infrared or Capacitive</p> <p><u>Surface material of touch surface</u> Toughened/tempered glass at 7Mohs</p> <p><u>Viewing Angle (H/V)</u> 178/178 Degree or better</p> <p><u>Surface Hardness</u> H7 Mohs or More than H7 Mohs</p> <p><u>Surface technology & Grade</u> Anti-Glare, G1 or better</p> <p><u>Touch Glass Thickness</u> Between 2MM to 4MM</p> <p><u>Transparency</u></p>	

>88% or better

Scan Speed

100Hz or better

Positioning Accuracy

5 mm or better

HID Support

Must have a provision to connect with any external sources

Communication Interface

inbuilt - USB-B type

Writing Tool

Shall use with stylus pen or finger

Touch Interactive Display must have Mic port for local audio reinforcement facility

Touch interactive display shall have minimum 1 no. of Microphone (3.5mm) port to connect any external microphone. Thus, the user shall use the audio system of the touch interactive display for local audio reinforcement without any additional purchase of speakers, amplifiers, pre-amplifiers, cables, equipment rack, services for wall chipping and closure for pipe laying to pull audio cables. This MIC port shall be located anywhere at front side of touch interactive display for easy and comfort access.

Speakers

Should be SEAMLESSLY build-in the display

No. of speakers and Max. Power Output

Touch Interactive Display shall have minimum of 2 speakers with the power of each speaker at 13Watts or above

Audio Out

Touch Interactive display must have audio to connect any external audio system

Speaker Position

Seamlessly mounted in lower side of the display. Front facing, Forward through

Rated Impedance of the speaker

8Ω (±15%) OR best

Speaker Freq. Response

90Hz(±20%) -18kHz or best

Output S.P.L. of the speaker

84 ± 3dB or best

Latest AV ports at Front side of the display - For the purpose of easy access and connectivity of any external computing / av devices the display must have below given ports as Minimum requirement at front side

Front access ports shall be covered with Flip closure

HDMI Port - Minimum 1

To access with OPS type PC, The display must have USB Type A ports at front side of - Minimum 2 Nos

USB for touch purpose -1

MIC port - Minimum 1

Total Minimum required Input ports (Above ports for front access in the display shall also be considered)

Total HDMI ports - 2 or more

Total Video Input YPbPr - 1 or more

Total USB - 2ports to use touch function as minimum

Touch Interactive Display must have audio output port

Minimum Audio Out Port X 1

Control

RS232

Wireless Hand remote

Each Display must be provided with Infrared wireless had remote

Battery Type

AAA Cell

Display must have universal VESA type mounting

800 x 400 mm or Any universal standard pattern

Ventilation

Display must have adequate heat dissipation facility with the no moving parts technology

	<p>(FAN)</p> <p>Power Consumption Shall be less than 210 - 240Watts typical</p> <p>Working Voltage AC 100-240V, 50/60Hz or better</p> <p>Working Temperature 0°C - 40°C or better</p> <p>Humidity 20% ~ 80% or better</p> <p>Mounting Capabilities Display must have facility to mount on floor stand or wall brackets</p> <p>BIS Approval Proposed Product must have obtained BIS certification. And Attach the copy as proof</p> <p>Provision of OPS slot Interactive display must have OPS slot for PC applications</p>	
03	<p>Required Specification for Touch Interactive Display about - Wall Mount Kit</p> <p>Suitable wall mount kit with accessories Equipment has to be supplied with suitable wall mount kit and accessories</p> <p>Installation Horizontal installation</p>	
04	<p>Stand For Interactive Panel Heavy Duty Floor stand for the above mentioned panel</p>	

FORMAT FOR QUOTATION SUBMISSION
(In letterhead of the supplier with seal)

Date: _____

To: _____

Sl. No.	Description of goods \ (with full Specifications)	Qty.	Unit	Quoted Unit rate in Rs. (Including Ex-Factory price, excise duty, packing and forwarding, transportation, insurance, other local costs incidental to delivery and warranty/ guaranty commitments)	Total Price (A)	Sales tax and other taxes payable	
						In %	In figures (B)
Total Cost							

Gross Total Cost (A+B): Rs. _____

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. _____ (Amount in figures) (Rupees _____ amount in words) within the period specified in the Invitation for Quotations.

We confirm that the normal commercial warranty/ guarantee of _____ months shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier

Name: _____

Address: _____

Contact No. _____