



**National Institute of Technology, Meghalaya  
Bijni Complex, Laitumkrah, Shillong 793003**

**INVITATION LETTER**

Ref No.: TEQIP III/2019/NITMGH/Shopping/166

Date: 17-Jun-2019

Package Code: TEQIP-III/2019/nimt/88

Current Date: 17-Jun-2019

Package Name: NITMGH/TEQIP III/ECE/009 (DSP Educational Practice Board for TMS320C6748 along with Accessories)

Method: Shopping Goods

To,

**Sub: INVITATION LETTER FOR NITMGH/TEQIP III/ECE/009 (DSP Educational Practice Board for TMS320C6748 along with Accessories)**

Dear Sir,

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	Quantity	Place of Delivery	Installation Requirement (if any)
1	DSP Educational Practice Board for TMS320C6748 along with Accessories	15	National Institute of Technology Meghalaya, Bijni Complex, Laitumkrah, Shillong - 793003	Yes
2	CCD Camera-Lens with Power supply and Cables Accessories	5	National Institute of Technology Meghalaya, Bijni Complex, Laitumkrah, Shillong - 793003	Yes
3	General purpose Board	5	National Institute of Technology Meghalaya, Bijni Complex, Laitumkrah, Shillong - 793003	Yes
4	Daughter Board for General Purpose board	5	National Institute of Technology Meghalaya, Bijni Complex, Laitumkrah, Shillong - 793003	Yes
5	GSM Module with Enclosure	1	National Institute of Technology Meghalaya, Bijni Complex, Laitumkrah, Shillong - 793003	Yes
6	Finger Print Module with enclosure	1	National Institute of Technology	Yes

			Meghalaya, Bijni Complex, Laitumkrah, Shillong - 793003	
7	RFID Module with Enclosure	1	National Institute of Technology Meghalaya, Bijni Complex, Laitumkrah, Shillong - 793003	Yes

1. 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.

**2. Quotation**

2.1 The contract shall be for the full quantity as described above.

2.2 Corrections, if any, shall be made by crossing out, initialling, dating and re writing.

2.3 All duties and other levies payable by the supplier under the contract shall be included in the unit Price.

2.4 Applicable taxes shall be quoted separately for all items.

2.5 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.

2.6 The Prices should be quoted in Indian Rupees only.

3. Each bidder shall submit only one quotation.

4. Quotation shall remain valid for a period not less than **45** days after the last date of quotation submission.

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

5.1 are properly signed; and

5.2 Confirm to the terms and conditions, and specifications.

6. The Quotations would be evaluated for all items together.

7. 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.

7.1 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.

- 7.2 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.
8. Payment shall be made in Indian Rupees as follows:
- Satisfactory Delivery & Installation - 10% of total cost**  
**Satisfactory Acceptance - 90% of total cost**
9. Liquidated Damages will be applied as per the below:  
Liquidated Damages Per Day Min % :N/A  
Liquidated Damages Max % : N/A
10. All supplied items are under warranty of **24** months from the date of successful acceptance of items and AMC/Others is **As applicable**.
11. You are requested to provide your offer latest by **02:00** hours on **02-Jul-2019**.
12. Detailed specifications of the items are at Annexure I.
13. Training Clause (if any) **Yes**
14. Testing/Installation Clause (if any) **Yes**
15. Performance Security shall be applicable: **0%**
16. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
17. Sealed quotation to be submitted/ delivered at the address mentioned below, **National Institute of Technology, Meghalaya, Bijni Complex, Laitumkhrah, Shillong 793003**
18. For authenticity/genuineness of the quoted product, the firm should be a reputable, well established and suppliers of the goods or services as part of their normal business.
19. **Technical Presentation:** If necessary then the authority may ask the technically qualified bidders to give full presentation or live demonstration of the Quoted equipment at NIT Meghalaya before finalization of the tender as a support of their specification.
20. Dealership Certificate: The bidder/tenderer should be either a manufacturer or authorized dealer of the foreign/Indian manufacturer. Dealers or Agents quoting on behalf of Manufacturer must enclose valid dealership certificate.
21. We look forward to receiving your quotation and thank you for your interest in this project.

(Authorized Signatory)

Name & Designation

Coordinator  
TEQIP-III  
National Institute of Technology  
Meghalaya

### Annexure I

Sr. No	Item Name	Specifications
1	DSP Educational Practice Board for TMS320C6748 along with Accessories	<ul style="list-style-type: none"> <li>• TMS320C6748 – Fixed/ Floating Point Digital Signal Processor</li> <li>• DSP with up to 456 MHz performance.</li> <li>• On board 14 Pin (2x7 Pin) JTAG emulation connector</li> <li>• Boot mode selection switch</li> <li>• On board 256 MB Flash memory</li> <li>• On board 128 MB DDR2 RAM memory</li> <li>• On board DB9 connector for UART-1 interface</li> <li>• On board 3 pin header for UART-2 interface</li> <li>• On board USB TYPE B Connector for UART-2 interface for Debug Console</li> <li>• LED indication for USB connection for Debug Console</li> <li>• On board Reset Switch with LED indication</li> <li>• On board USB Type A Connector for USB host interface</li> <li>• On board micro USB Type A Connector for USB OTG interface</li> <li>• On board RJ45 connector for 10/100 Ethernet interface</li> <li>• On board I2C based Temperature sensor &amp; RTC interface</li> <li>• On board SPI based micro SD card interface, Provision for SATA connector</li> <li>• On board Power-On LED indication and 4 User LED at GPIO Pin as GPIO Test point</li> <li>• On board 5 user push buttons for various applications</li> <li>• Boot mode selection switch</li> <li>• On board Video in port available</li> <li>• On board VGA out connector</li> <li>• Provision for composite video out connector</li> <li>• On board Graphics LCD interface connector which can be used for GPIO pins also and compatible with All in one GPIO Kit</li> <li>• On board audio jack and speaker (Mic in) interface</li> <li>• On board audio codec for speaker out</li> <li>• Provision for CMOS sensor connector to interface CMOS camera</li> <li>• On board Temperature sensor with interrupt out facility</li> <li>• On board jumper selection to switch various video out options</li> <li>• On board LED to indicate power surge &amp; to indicate high voltage input up to 27.5V</li> <li>• On board excessive voltage protection circuit with LED indication for high voltage input up to 27.5V</li> <li>• Various test points for various signals</li> <li>• On board jumper to switch UART2 between USB connector and 3 pin connector</li> </ul>
2	CCD Camera-Lens with Power supply and Cables Accessories	
3	General purpose Board	It should includes <ul style="list-style-type: none"> <li>o 8 LED,</li> <li>o 16x2 character LCD,</li> </ul>

		<ul style="list-style-type: none"> <li>o 2 digit 7-segment display</li> <li>o Switches includes 4 general purpose keys</li> <li>o 2X2 matrix keyboard</li> <li>o I2C based EEPROMs for protocol demonstration experiments</li> <li>o SPI based EEPROMs for protocol demonstration experiments</li> <li>o Stepper motor</li> <li>o DC Motor interface</li> <li>o Relay output</li> <li>o Facility to provide 2 channel ADC in put using potentiometer and unity gain amplifier for protection</li> <li>- Compatible with different educational practice boards and Arduino Board</li> <li>- Useful resource to learn basic programming techniques to interface basic GPIO components to the controller.</li> </ul>
4	Daughter Board for General Purpose board	
5	GSM Module with Enclosure	<ul style="list-style-type: none"> <li>• GSM modem with serial communication interface</li> <li>• Standard RS-232 interface using DB9 connector provided for communication</li> <li>• Controlling through AT commands.</li> <li>• Modem can be linked to a PC, micro-controller or DSP based embedded system for sending SMS.</li> <li>• Data circuit asynchronous, transparent and non-transparent up to 14400 bits/s and baud rate of 30 to 115,200 bits/s</li> <li>• metal enclosure case</li> <li>• Power supply – 12V SMPS power supply</li> <li>• SIM800 modem</li> </ul>
6	Finger Print Module with enclosure	<ul style="list-style-type: none"> <li>• Image acquiring time - &lt;0.5s</li> <li>• Storage capacity – 256</li> <li>• FAR - &lt;0.001%</li> <li>• Average searching time - &lt;1s</li> <li>• Working environment – (-10 to 40) Degree C</li> <li>• Working current – 100mA peak</li> <li>• Matching mode- 1:1 and 1:N</li> <li>• Character file size – 256</li> <li>• Interface – UART</li> <li>• Template size – 512 bytes</li> <li>• Power supply through 2 pin relimate connector</li> <li>• UART Relimate Connector to TTL signal</li> <li>• Power Supply Connector</li> <li>• USBB- B Power Supply Connector</li> <li>• UART DB9 Connector</li> </ul>
7	RFID Module with Enclosure	<ul style="list-style-type: none"> <li>• Low cost</li> <li>• Long read range</li> <li>• Small outline</li> <li>• Wide voltage range: 9 V DC regulated, linear</li> <li>• Interfaces: RS232</li> <li>• Read Range: Up to 5 cm</li> <li>• Frequency: 125KHz</li> <li>• Format: 64 bits, Manchester coding</li> <li>• Transponder: Read only</li> </ul>

**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)
<b>Total Cost</b>							

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. \_\_\_\_\_