



National Institute of Technology, Nagaland, Chumukedima,
Dimapur, Nagaland-797103

INVITATION LETTER

Package Code: TEQIP-III/nitn/79
Package Name: IOT LABORATORY

Current Date: 23-July-2019
Method: Shopping Goods

Sub: INVITATION LETTER FOR IOT LABORATORY

Sir/Madam,

1. You are invited to submit your most competitive Sealed Quotations 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. | IoT Laboratory (Detailed specifications given at Annexure I) | 1 | NIT Nagaland | Yes |


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.

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- 3.6 The Prices should be quoted in Indian Rupees only. Goods/Equipments should be brand new.
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:
- Delivery and Installation - 90% of total cost**
 - Satisfactory Acceptance - 10% of total cost**
10. Liquidated Damages will be applied:
- Liquidated Damages Per Day Min % : 0
 - Liquidated Damages Max % : 0
11. All supplied items are under warranty of **Twelve (12)** months from the date of successful acceptance of items.
12. You are requested to provide your offer latest by **12:00** hours on **06-Aug-2019**.


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13. Detailed specifications of the items are at Annexure I.
14. Training Clause (if any) **Yes**
15. Testing/Installation Clause (if any) **Yes**
16. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly Indicating the model quoted for
17. The tender document shall be submitted/delivered in a sealed envelope bearing the following reference on the top left corner: **Package Code: TEQIP-III/nitn/79 Dated: 23-07-2019** latest by **12:00** hours on **06-Aug-2019** and addressed to: **The Registrar, National Institute of Technology, Nagaland, Chumukedima, Dimapur, Nagaland-797103.**
18. The bidder should furnish the certificate of GST registration, PAN, and IT Returns of last three years.
19. The Bidder should have experience of executing at least 5 (Five) Purchase Order of Equipment/Machines from any IITs /NITs/ Central Govt. Institutions or Educational & Research Institutions of National Repute.
20. Vendors should clearly state the available nearest after sales service facilities in the region, without which their offers will be rejected.
21. The bidder should be the manufacturer or authorised dealer and, in such case, the certificate of dealership from the manufacturer should be produced.
22. **Performance Bank Guarantee (PBG):** The supplier shall furnish an unconditional PBG for 5% of the Purchase Order value for a period of one year from a scheduled Bank of India, within 21 days from the date of delivery and installation of the work. Where the PBG is obtained by a foreign bank, it shall be got confirmed by a Schedule Indian bank and shall be governed by Indian Laws and be subject to the jurisdiction of courts at Dimapur. The PBG shall guarantee that,
 - a) The Vendor guarantees satisfactory operation of the Equipment & components against poor workmanship, bad quality of materials used, faulty designs and poor performance.
 - b) The Vendor shall, at his own cost, rectify the defects/replace the items supplied, for defects identified during the period of guarantee.
23. The bidder should produce Audited statement of accounts for the last 3 years.



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24. **Disputes and Jurisdiction:** Any legal dispute arising out of any breach of contract pertaining to this order shall be settled in the court of competent jurisdiction located within Dimapur in Nagaland.
25. **All the supporting documents should be attached with the quotation, without which the tender will be completed rejected.**
26. The Institute reserves the right to accept in part or in full any quotation(s) or reject any or more quotation(s) without assigning any reason or to cancel the tendering process and reject all quotation(s) at any time prior to award of contract, without incurring any liability, whatsoever to the affected bidder or bidder(s).

We look forward to receiving your quotation and thank you for your interest in this project.



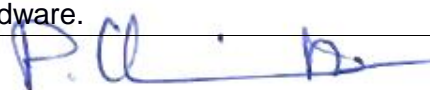
TEQIP-III COORDINATOR

23-07-2019

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Annexure I

| Sr. No | Item Name | Qty | Specifications |
|--------|-----------|-----|--|
| 1. | IOT Lab | 1 | <p>IOT Lab – Should consist of :</p> <p>IOT Trainer Kit - Cortex-M4 : 5 No.s</p> <p>IOT Trainer Kit - Cortex-M3: 5 No.s</p> <p>IOT Trainer Kit - Arduino : 10 No.s</p> <p>All in One General Purpose Board : 10 No.s</p> <p>IOT Gateway configured for IOT server- Raspberry Pi based: 1 No</p> <p>Bluetooth: 2 No.s</p> <p>Router: 1 No</p> <p>Portable Sensor Kit: 2 No.s</p> <p>IOT sensor kit: 1 No</p> <p>Base Board for Arduino to interface Sensor: 10 No.s</p> <p>Base Board for Cortex-M3 to interface Sensor: 5 No.s</p> <p>Stepper Motor: 3 No.s</p> <p>DC Motor: 3 No.s</p> <p>Workbook (Softcopy):1 No</p> <p>Amazon Echo Dot : 1 No</p> <p>AWS configuration charges :1 No</p> <p>IDE Configured for Cortex Platform :1 No</p> <p>Specifications:</p> <ul style="list-style-type: none"> • Different variety of IOT Nodes featuring ARM Cortex-M3, Cortex-M4 and Arduino Boards to demonstrate various features like Ethernet, USB, Sensor interfacing, UART, I2C, SPI etc. These nodes enabled to user to learn sensor interfacing and peripheral programming required for IOT application. • One unit of Embedded Gateway with HDMI and Ethernet connectivity, USB ports, on board Wifi, on board Bluetooth. Quad Core 1.2GHz CortexA53 64bit CPU, 1 GB RAM. The embedded gateway should be able to connect to the nodes and transmit data to the cloud. The necessary image containing cloud services compatible for IoT should be ported on the board. Also the procedure to configure the same should be provided to end user. • All-in-one GPIO board designed to suit the experimentation of IoT applications to be provided having following features, On-board display options includes 8 LED, 16x2 character LCD, 2 digit 7-segment display, Switches includes 4 general purpose keys and 2X2 matrix keyboard, I2C and SPI based EEPROM, Stepper motor and DC Motor interface, Relay output, Facility to provide 2 channel ADC input using potentiometer and unity gain amplifier for protection • Experimentation using AWS (Amazon Web service) along with the provided nodes featuring real time IOT experimentation. • Voice enabled control using Amazon Echo Dot with provided node hardware. |


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|--|--|--|
| | | <ul style="list-style-type: none"> • One unit of Router with power supply • A Bluetooth module for connecting the node to embedded gateway. • A portable sensor kit with facility to interface temperature-humidity sensor to log data on IOT gateway using Wi-Fi protocol. • Cortex M3 Base Board for Interfacing Sensors • Arduino Base Board for Interfacing Sensors • A set of sensors for sensing of data and posting it to cloud. The set of sensors should be compatible with nodes and should be provided with proper connectivity options like base board where the sensors can be mounted. The sensors should be compatible with I2C, SPI protocols etc. The sensors should be pluggable. The base board should have 34 pin connector for I2C, SPI, UART, PWM lines available as well as a 10 pin connector for ADC interface with the node. • 2KG stepper motor and +5V DC motor for demonstration of cloud based control using IoT application • An IDE configured for IoT applications to be provided for entire lab. <p>Workbook featuring basic examples to get started with the target board as well as examples to use internet and communicate with cloud, with detailed working procedures to be provided with the setup. The workbook should contain examples related to interfacing of sensors as well as posting the data of the sensors on the cloud and take necessary action as required.</p> |
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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: _____



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