



राष्ट्रीय प्रौद्योगिकी संस्थान मेघालय  
NATIONAL INSTITUTE OF TECHNOLOGY MEGHALAYA  
Bijni Complex, Laitumkrah, Shillong-793003

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Web : <http://www.nitm.ac.in/>

Ref: No. NITMGH/ES/CPPP/IOT/2023-24/1447

Date: 20.09.2023.

**NOTICE INVITING QUOTATION (NIQ) FOR SUPPLY AND INSTALLATION OF EQUIPMENT AT THE DEPARTMENT OF ELECTRICAL ENGINEERING, NIT MEGHALAYA**

NIT Meghalaya invites online Tenders through CPP Portal <https://eprocure.gov.in/eprocure/app> from eligible Bidders for procurement of equipment.

Prescribed Tender document, detailed fees and specifications, bid instructions and Terms & Conditions can be downloaded from the CPP Portal (<https://eprocure.gov.in/eprocure/app>) or from the Institute website (<http://www.nitm.ac.in/>). However, the bidding process (submission and finalization) will be done in online mode at CPP Portal. The bidders may submit their bid only through uploading in the CPP Portal <https://eprocure.gov.in/eprocure/app>

**BID INSTRUCTIONS:**

1. The offer must be submitted in Two Bid – Two Files/Covers only through uploading in the CPP Portal, before the last date & time for bid submission. Bidders must submit their digitally signed bids. The covers will contain the following documents:
  - i. Cover 1 which consists of technical requirements and general terms & conditions
  - ii. Cover 2 which consists of the Price Bid (in BoQ Ms-Excel format).

**LAST DATE OF SUBMISSION:- 23.10.2023 at 13:00 pm**

**Technical bids will be opened on 24.10.2023 at 15:30 pm**

After evaluation of technical bids, financial bids of the successful bidders will be opened on a later date which will be duly notified.

02. **Submission of Compliance Certificate:** Duly filled and signed Compliance Certificates (as per formats at Annexure-I A & B) are must with the Technical bid.
03. **Bid not transferable:** The bid documents are not transferable and the seal and signature of the authorized official of the firms must appear on all the papers and envelopes submitted.
04. The quantity mentioned for each item in the Annexure-III may vary depending on requirements.
05. GST Registration Certificate should be enclosed along with the tender documents.
06. Relevant catalogue of the items (if any) must be enclosed.
07. **Interested vendors may interact with Prof. Gayadhar Panda, Professor, EE Department, NIT Meghalaya for any technical queries @ 9485177030 and email ID [gayadharpanda@nitm.ac.in](mailto:gayadharpanda@nitm.ac.in).**
08. For e-waybill the successful vendor has to apply online via <https://ewaybill.nic.in/ewb.html>.

SIGNATURE OF BIDDER

## **NIQ TERMS & CONDITIONS:**

01. **Rates:** Rates quoted in the Price Bid should be on DOOR DELIVERY NIT Meghalaya, Shillong basis, as per details below:

| <b>Group:</b>  | <b>Item Sl. No.</b>  | <b>Item name</b> |             |
|----------------|--|------------------|-------------|
| <b>Sl. No.</b> | <b>Particulars</b>   |                  | <b>Rate</b> |
| I              | Basic Price (per unit)   |                  |             |
|                | Discount if any  |                  |             |
|                | Total  |                  |             |
|                | GST (pl. break up CGST/SGST/IGST)  |                  |             |
|                | Total (per unit)   |                  |             |
|                | Grand total for the item   |                  |             |
| II             | Transportation charge up to NIT Meghalaya, Shillong premises (if applicable)     |                  |             |
| III            | Transit Insurance covering all risk up to 10 days after delivery (if applicable) |                  |             |
|                | Grand total on door delivery at NIT Meghalaya, Shillong                          |                  |             |
| IV             | Annual Maintenance Contract rate (after expiry of warranty period)               |                  |             |

Note: Vague terms like “packing, forwarding, transportation etc. extra” without mentioning the specific amount will not be accepted. Such offers shall be treated as incomplete and rejected. **Bidders shall indicate their rates in clear/visible figures as well as in words and shall not alter/overwrite/make cutting in the quotation. In case of a mismatch, the rates written in words will prevail. Usage of “White ink” to erase and then rewrite the rates will not be accepted.** Bidders are advised to strike out wrong entries and rewrite clearly beside them. In such cases, the bidder shall have to sign and place their official seal for every corrected entry.

02. **Bidders need to quote for all items as mentioned in Annexure-III.**

03. Quotations have to be submitted in Indian Rupees only. If goods are to be imported, the quotations shall include all charges for customs clearance, clearing agent fees, landing port handling charges, insurance etc. and onward transportation of the goods from the port/airport of landing for door delivery upto NIT Meghalaya, Shillong, Meghalaya.

NIT Meghalaya has a valid registration with the Department of Scientific and Industrial Research (DSIR), Ministry of Science & Technology, Government of India for availing Customs/Central Excise Duty exemption. NIT Meghalaya will provide all necessary certificates, authorizations and documents required for clearing the consignment and for onward transportation upto Shillong.

04. All documents submitted should be self-attested with seal of the bidder.
05. Bidder must unconditionally accept all terms and conditions stipulated in the tender document and all pages of the bid including all enclosures should be numbered and must be duly filled in, signed and stamped by the bidder or his authorized representative. Offers received without signature and seal on all pages are liable to be rejected.
06. The bidder must also upload a digitally signed copy of the **Tender Acceptance Letter** in the format given at Annexure-IV.
07. **Validity of Quotation:** Quoted rates must be valid for 120 days from the date of quotation.
08. **Warranty:** The quoted equipment and components must be warranted for a minimum of one Year.
09. **Literature must:** All the quotations must be supported by the printed technical data sheet/ literature and the specifications mentioned in the quotation must be reflected/ supported by such printed technical data sheet/ literature. The model no. and specifications quoted should invariably be highlighted in the data sheets/ literature for easy reference.

SIGNATURE OF BIDDER

10. **Details of supply** of similar items to Institutes of National Importance (preferably those located in the Northeastern region) should be provided.
11. **Presentation:** Technically qualified bidders may be called upon to give full presentation of the quoted equipment at NIT Meghalaya campus before opening of Price bid as a support of their Technical Quotations and for any clarifications.
12. **Equipment breakdown:** Any Equipment breakdown must be attended to within 72 hours during the warranty period of the equipment free of cost.
13. **Training:** If required, free training is to be provided to NIT Meghalaya personnel on the operation, maintenance and trouble shooting of the supplied items.
14. **After Sales Service:** Vendor should clearly state the available nearest after sales service facilities in the North Eastern region, without which the offer will be rejected.
15. **Dealership Certificate:** The bidder/tenderer should be either a manufacturer or authorized agent of the foreign/Indian manufacturer. Dealers or Agents quoting on behalf of Manufacturer must enclose valid dealership certificate.
16. **EMD:** - Earnest Money: Refundable earnest money deposit (EMD) of ₹ 23,000/- (Rupees Twenty Three Thousand) only through demand draft drawn (of any Nationalized/Scheduled Bank) in favour of National Institute of Technology Meghalaya, payable at Shillong, will have to accompany the technical Bid. The EMD of unsuccessful bidders shall be returned without any interest after award of contract. EMD of the successful bidder will be released without interest on submission of the Performance Bank Guarantee or delivery of the ordered items, as applicable.

Firms registered under MSME will be exempted from submitting EMD. In case of firms registered under NSIC, exemption will be given to the permissible extent, as indicated in their Certificate. All vendors claiming exemption must submit copies of their valid MSME/NSIC registration Certificate (along with the Technical Bid in case of two bid system). Offers received without Earnest Money or valid Certificate shall be summarily rejected.
17. **Performance Bank Guarantee (PBG):** The successful bidder shall furnish an unconditional PBG (as per format at Annexure II) for 10 % of the Purchase Order value from a Nationalized/Scheduled Bank of India, before release of the payment. Else 10 % of the billed amount will be deducted as security deposit. Where the PBG is obtained by a foreign bank, it shall be endorsed by a Nationalized/Scheduled Indian bank and shall be governed by Indian Laws and be subject to the jurisdiction of courts at Shillong. 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/warranty.The PBG shall remain valid for period of sixty days beyond the date of completion of all contractual obligations of the supplier including warranty obligations.
18. **Delivery:**
  - a. Time Limit: Maximum within 90 (ninety) days from the date of issue of purchase order.
  - b. Safe Delivery: All aspects of safe delivery shall be the exclusive responsibility of the vendor. At the destination site, the package will be opened only in the presence of NIT user/representative and vendor's representative. The intact condition of the package and the seal/indicators for not being tampered with, shall form the basis for certifying the receipt in good condition.
  - c. Insurance: The supplier is to establish 'All Risk Transit Insurance' coverage till door delivery at NIT Meghalaya.
  - d. Part Delivery: Acceptance of part delivery shall be a prerogative of the Institute.

- e. **Penalty for delay in delivery:** The date of delivery should be strictly adhered to otherwise the Director, NIT Meghalaya reserves the right not to accept delivery in part or full. The Director, NIT Meghalaya also reserves the right to impose penalty, as deemed fit, for delay in delivery of the equipments including imposition of Liquidated Damages (LD) as per Government Norms. The decision of the Director shall be binding to all.
19. **Genuine Pricing:** Vendor is to ensure that quoted price for the particular item is not more than the price quoted to any other customer in India, particularly to IITs/NITs and other Government Organization. Copy of the latest price list for the quoted item, applicable in India, must be enclosed with the offer.
20. **Conditional tenders not acceptable:** All the terms and conditions mentioned herein must be strictly adhered to by all the vendors. Conditional tenders shall not be accepted on any ground and shall be rejected straightway. Conditions mentioned in the tender bids submitted by vendors will not be binding on NIT Meghalaya.
21. **Late and delayed tender:** Late and delayed tender will not be considered. In case any unscheduled holiday occurs on the prescribed closing/opening date the next working day shall be the prescribed date of closing/opening.
22. **Payment:** 100% payment within 30(thirty) days from date of delivery, installation, commissioning and acceptance.
23. TDS @ 2% shall be deducted by the Institute under Section 51 of the GST Act, 2017 as the value of your supply exceeds Rs. 2.5 Lakhs. The GST-TDS registration of NIT Meghalaya is “17SHLN01494DIDQ”, for your reference.
24. **Enquiry during the course of evaluation not allowed:** After opening the Technical Bid, no enquiry from the bidder(s) shall be entertained during the course of evaluation of the tender till final decision is conveyed to the successful bidder(s). However, the Purchase Committee or its authorized representative may make enquiries/seek clarification from the bidders. In such a case, the bidder must extend full cooperation. The bidders may also be asked to arrange demonstration of the offered items, in a short period of notice.
25. At any time prior to the date of submission of bid, NIT Meghalaya may, for any reason, either of its own or in response to a clarification from a prospective bidder, modify the bidding documents by an amendment / corrigendum. **Any such amendment / corrigendum will be duly notified through the CPP Portal only.** Prospective bidders are advised to check the Institute’s website every now and then for any amendment / corrigendum. In order to provide reasonable time to take the amendment into account in preparing the bid, NIT Meghalaya may extend the date and time for submission of bids.
26. The acceptance of the quotation will rest solely with the Director, NIT Meghalaya, who in the interest of the Institute is not bound to accept the lowest quotation and reserves the right to himself to reject or partially accept any or all the quotations received without assigning any reasons.
27. **Force Majeure:**  
If the performance of the obligation of either party is rendered commercially impossible by any of the events hereafter mentioned that party shall be under no obligation to perform the agreement under order after giving notice of 15 days from the date of such an event in writing to the other party, and the events referred to are as follows:  
(a) Any law, statute or ordinance, order action or regulations of the Government of India,  
(b) Any kind of natural disaster, and  
(c) Strikes, acts of the Public enemy, war, insurrections, riots, lockouts, sabotage.
28. **Termination for default:** Default is said to have occurred  
(a) If the equipment or any of its component is found having poor workmanship, faulty designs, poor performance and bad quality of materials used.

- (b) If the supplier fails to deliver any or all of the services within the time period(s) specified in the purchase order or any extension thereof granted by NIT Meghalaya.
- (c) If the supplier fails to perform any other obligation(s) under the contract.

Under the above circumstances NIT Meghalaya may terminate the contract / purchase order in whole or in part and forfeit the EMD/PBG as applicable. In addition to above, NIT Meghalaya may at its discretion also take the following actions: NIT Meghalaya may procure, upon such terms and in such manner, as it deems appropriate, goods similar to the undelivered items/products and the defaulting supplier shall be liable to compensate NIT Meghalaya for any extra expenditure involved towards goods and services obtained.

**29. Applicable Law:**

- (a) The contract shall be governed by the laws and procedures established by Govt. of India and subject to exclusive jurisdiction of Competent Court and Forum in Shillong / India only.
- (b) Any dispute arising out of this purchase shall be referred to the Director, NIT Meghalaya, and if either of the parties hereto is dissatisfied with the decision, the dispute shall be referred to the decision of an Arbitrator, who should be acceptable to both the parties, to be appointed by the Director of the Institute. The decision of such Arbitrator shall be final and binding on both the parties.

Sd/-  
Registrar

Encl.: ANNEXURE-I, ANNEXURE-II, ANNEXURE-III, ANNEXURE-IV.

**Annexure –I**

**A. COMPLIANCE CERTIFICATE FOR NIQ TERMS**  
(To be enclosed in the Technical bid)

| <b>Sl. No.</b> | <b>NIQ Terms and Conditions</b>   | <b>Yes/No</b> |
|----------------|---|---------------|
| 01             | <b>Rate</b> quoted as per instruction   |               |
| 02             | <b>AMC rate</b> after warranty provided   |               |
| 03             | <b>Validity</b> of quoted rate for 120 days agreed  |               |
| 04             | <b>EMD</b> submitted / appropriate certificate enclosed   |               |
| 05             | <b>PBG</b> term agreed  |               |
| 06             | <b>Payment</b> term agreed  |               |
| 07             | <b>Delivery terms</b> agreed  |               |
| 08             | <b>Warranty period</b> agreed   |               |
| 09             | <b>Literature:</b> Printed provided   |               |
| 10             | <b>Dealership</b> /distributorship certificate (in case of dealers/agents) provided                                   |               |
| 11             | <b>Details of supply to other Institutes of National Importance</b> provided  |               |
| 12             | <b>Equipment breaks down clause</b> agreed  |               |
| 13             | <b>After Sales Service:</b> address of nearest after Sales Service Centre in the Northeastern/Eastern region provided |               |
| 14             | <b>Manufacturer</b> certificate provided  |               |
| 15             | <b>Applicable law</b> terms agreed  |               |
| 16             | All other terms and conditions mentioned in the NIQ (Technical & Financial) agreed                                    |               |

Signature with Seal:.....

Vendor: M/s.....

Annexure -I

**B. COMPLIANCE CERTIFICATE FOR SPECIFICATIONS**  
(One for each item, must to be enclosed in the Technical bid)

| Item Sl. No.                       |               | Item Name:                  |                        |
|------------------------------------|---------------|-----------------------------|------------------------|
| Quoted Product:                    | Make:         | Model No:                   |                        |
| Specifications as per Annexure-III |               | Quoted Item Specifications* | Complied/<br>Deviation |
| Parameter                          | Specification |                             |                        |
|                                    |               |                             |                        |
|                                    |               |                             |                        |
|                                    |               |                             |                        |
|                                    |               |                             |                        |
|                                    |               |                             |                        |
|                                    |               |                             |                        |

Signature with Seal: .....

Vendor: M/S .....

**\* Vendor must quote the parameter specification of the quoted product in this column and not just copy the specification from the tender call document. Failure to do so will lead to rejection of the tender.**

**Annexure -II**

**PERFORMANCE BANK GUARANTEE**

To:  
The Director,  
National Institute of Technology Meghalaya  
Bijni Complex, Laitumkhrach, Shillong-793 003  
Meghalaya

**WHEREAS** ..... (Name of Supplier)  
hereinafter called "the Supplier" has undertaken, in pursuance of Contract No..... dated,..... 20... to  
supply..... (Description of Goods and Services) hereinafter called  
"the order".

**AND WHEREAS** it has been stipulated by you in the said order that the Supplier shall furnish you with a  
Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with the  
Supplier's performance obligations in accordance with the order.

**AND WHEREAS** we have agreed to give the Supplier a Guarantee:  
**THEREFORE WE** hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier,  
up to a total of ..... (Amount of the Guarantee in Words and  
Figures) and we undertake to pay you, upon your first written demand declaring the Supplier to be in default  
under the order and without cavil or argument, any sum or sums within the limit of .....  
(Amount of Guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your  
demand or the sum specified therein.

This guarantee is valid until the .....day of.....20.....

Signature and Seal of Guarantors

.....

.....

.....

Date.....20....

Address:.....

.....

.....

All correspondence with reference to this guarantee shall be made at the following address:

The Director,  
National Institute of Technology Meghalaya  
Bijni Complex, Laitumkhrach, Shillong-793 003  
Meghalaya



**ANNEXURE-III**  
**(DETAILED TECHNICAL SPECIFICATIONS)**

| <b>IoT System for existing MICROGRID System</b> |   |
|---|---|
| <b>MASTER CONTROLLER SPECIFICATION</b>          | Quad core 64-bit processor clocked at 1.4GHz<br>1GB LPDDR2 SRAM<br>Dual-band 2.4GHz and 5GHz wireless LAN<br>Bluetooth 4.2 / BLEHigher speed ethernet up to 300Mbps Power-over-Ethernet capability (via a separate PoE HAT)<br>IOT interface: Panoramica servers<br>Input signal: RS485/ 232 Modbus RTU<br>Supply voltage: 230V AC  |
| <b>DEVICE CONFIGURATION</b>                     | Operating Mode: Programming and Applications<br>Security: Password protected configuration<br>Wi-Fi SPECIFICATION:<br>Protocol: 802 .11 b/g/n<br>Frequency: 2.4GHz  |
| <b>SERIAL INTERFACE</b>                         | Interface mode: RS-485 MODBUS RTU Supported<br>Baud Rates: 9600, 19200, 38400, 57600<br>Parity: None, Odd, Even<br>Stop Bits: 1, 2<br>Protocol Supported: MODBUS RTU/MODBUS TCP-IP or MODBUS over TCP-IP  |
| <b>IOT TRANSMITTER</b>                          | Input: RS485 (Modbus RTU), : RS232<br>Output: Web ID to view the Data<br>With data storage software.<br>No of device: 1, Supply: 230V AC<br>Specification:<br>Red data: 25, Write data: 5<br>Note: Internet connection required from customer (Wi Fi or RJ45 LAN)   |
| <b>RS485/232 TO USB CONVERTER</b>               | Industrial-grade isolated serial converter changes RS-232 signals to RS-422 for increased range, or to RS-485 for increased range plus multi-drop capability<br>Data rates up to 115.2 kbps<br>Three-way 2,000V optical isolation (input, output, power)<br>Wide (-40 to +80 °C) operating temperature<br>UL Class 1/Division 2<br>Modbus ASCII/RTU, Allen-Bradley® DH-485 compatible<br>10–48 VDC input power range  |
| <b>VOLTAGE &amp; CURRENT SENSING MODULE:</b>    | <b>CURRENT SENSOR WITH SIGNAL CONDITIONER</b> ----5nos<br>LA25-P HALLEFFECT Current sensors with signal conditioner -1NO (25Amps Current sensor), which can be used to sense the AC/DC currents.<br>One no of +15v, -15v and +5v power supply will be provided.<br>Necessary gain and offset trim pots will be provided.<br>Necessary Input and Output connectors provided for current sensors.   |
| <b>VOLTAGE SENSOR WITH SIGNAL CONDITIONER</b>   | One no of voltage sensors(ic7840) with signal conditioner -5nos<br>This can be used to sense the AC/DC voltages. Up to +/- 700vcan be sensed.<br>One no of +15v, -15v and +5v power supply will be provided.<br>Necessary gain and offset trim pots will be provided.<br>Necessary Input and Output connectors provided for all voltage and current sensors.<br>All voltage and current sensors board will be mounted on 4mm thickness ILEM sheet.<br>Note: The above sensors used to sense PV volt & current, DC link volt, Battery volt & current |

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SIGNATURE OF BIDDER

**ANNEXURE-IV**

**TENDER ACCEPTANCE LETTER**

**(To be given on Company Letter Head)**

Ref. No. ....

Date: .....

To,

The Registrar  
National Institute of Technology Meghalaya  
Bijni Complex, Laitumkhrah  
Shillong 793003, Meghalaya

**Sub: Acceptance of Terms & Conditions of Tender.**

**Tender Reference No.: NITMGH/..... dated .....2021**

**Name of Tender:- .....**

Sir,

1. I/ We have downloaded / obtained the tender document(s) for the above mentioned Tender from the web site of NIT Meghalaya, Shillong as per your advertisement, given in the CPP Portal and the above mentioned website.
2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents from Page No.....to ..... (including all annexure(s), schedule(s), etc.), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.
3. The corrigendum(s), if any, issued from time to time by NIT Meghalaya, Shillong, have also been taken into consideration, while submitting this acceptance letter.
4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.
5. I / We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking.
6. I / We certify that all information furnished by our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then NIT Meghalaya, Shillong shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)

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SIGNATURE OF BIDDER