

# राष्ट्रीय प्रौद्योगिकी संस्थान मेघालय

### ${\bf NATIONALINSTITUTEOFTECHNOLOGYMEGHALAYA}$

BijniComplex,Laitumkhrah,Shillong-793003

Phone: 0364-2501215 Fax :0364-2501113

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

Date: 26.08.2021

Date: 26.08.2021

Ref: NITMGH/ES/NIQ/CIF-MEW/2021-22/549

E-NOTICE INVITING QUOTATION (E-NIQ) FOR SUPPLY & INSTALLATION OF MULTICHANNEL ELECTRO CHEMICAL WORKSTATION FOR ELECTROCHEMISTRY, CORROSION, SENSOR, BATTERY/FUEL CELL & PHOTOVOLTAIC RESEARCH AT THE CENTRAL INSTRUMENTATION FACILITY, NIT MEGHALAYA, BIJNI COMPLEX (SHILLONG), EAST KHASI HILLS DISTRICT, MEGHALAYA 793003

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 though uploading in the CPP Portal https://eprocure.gov.in/eprocure/app

#### **BIDINSTRUCTIONS:**

- 01. 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).

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Ref: NITMGH/ES/NIQ/CIF-MEW/2021-22/549

LAST DATE OF SUBMISSION:- 04.10.2021 at 1:00 PM.

#### Technical bids will be opened on <u>05.10.2021 at 3:30 p.m.</u>

After evaluation of technical bids, financial bids of the successful bidders (technically qualified) 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-IA & 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 increase/decrease depending on requirements.
- 05. GST Registration Certificate should been closed along with the tender documents.
- 06. Relevant catalogue of the items(if any) must been closed.
- 07. Interested vendors may interact with Dr. Atanu Singha Roy, Asst. Professor, Chemistry Department, NIT Meghalaya for any queries @ 9402102387 and email ID asroy86@nitm.ac.in.
- 08. For e-way bill the successful vendor has to apply online via https://ewaybill.nic.in/ewb.html.

#### **NIO TERMS&CONDITIONS:**

01. **Rates:** Rates quoted in the Price Bid should be on DOOR DELIVERY at NIT Meghalaya, Bijni Complex (Shillong) basis, as per details as per details below to be quoted in the BoQ:-

| Group:  | Item Sl. No. Item name   |      |
|---------|--|------|
| Sl. No. | Particulars  | Rate |
| I       | Basic Price (per unit)   |      |
|         | Discount if any  |      |
|         | Total  |      |
|         | GST (pl. breakup CGST/SGST/IGST)   |      |
|         | Total (per unit)   |      |
|         | Grand total for the item   |      |
| II      | Transportation charge up to NIT Meghalaya, Bijni Complex, Laitumkhrah, Shillong 793003 basis (if applicable) |      |
| III     | Transit Insurance covering all risk up to 10 days after delivery (if applicable)                             |      |
|         | Grand total on door delivery at NIT Meghalaya, Bijni Complex, Laitumkhrah, Shillong 793003 basis             |      |

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.

- 02. **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, Bijni Complex (Shillong), East Khasi Hills District, Meghalaya 793003.
  - 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 NIT Meghalaya, Bijni Complex (Shillong), East Khasi Hills District, Meghalaya 793003.
- 03. All documents submitted should be digitally signed by the bidder.
- 04. 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 and digitally signed by the bidder or his authorized representative.
- 05. The bidder must also upload a digitally signed copy of the **Tender Acceptance Letter** in the format given at Annexure-IV.
- 06. Validity of Quotation: Quoted rates must be valid for 120 days from the date of quotation.
- 07. **Warranty:** The quoted equipment and components must be warranted for a minimum of one Year from the date of successful installation and training.
- 08. **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 datasheet/ literature. The model no. and specifications quoted should invariably be highlighted in the datasheets/literature for easy reference.
- 09. **Details of supply** of similar items to Institutes of National Importance/universities/organizations etc (preferably those located in the North eastern region) must be provided.
- 10. **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.
- 11. Equipment breakdown: Any Equipment breakdown must be attended to within 72 hours during the

warranty period of the equipment free of cost.

- 12. **Training:** If required, free training is to be provided to NIT Meghalaya personnel on the operation, installation, training, maintenance and trouble shooting of the supplied items.
- 13. **After Sales Service:** Vendor should clearly state the available nearest after sales service facilities in the North eastern/eastern region, without which the offer will be rejected.
- 14. **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.
- 15. **EMD:** As per OM No. F9/4/2020-PPD issued by the Department of Expenditure, Ministry of Finance, Government of India dated 12.11.2020 vendors are exempted from submission of EMD/Bid Security. However, in lieu of Bid Security, the vendor must submit a "Bid Security Declaration" accepting that if they withdraw or modify their bids during period of validity etc., they will be suspended for the time specified in the tender documents.
- 16. **Performance Bank Guarantee (PBG):** The successful bidder shall furnish an unconditional PBG (asper format at Annexure II) for 3% of the Purchase Order value from a Nationalized/Scheduled Bank of India, before release of the payment. Else 3% 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,
  - The Vendor guarantees satisfactory operation of the Equipment & components against poor workmanship, bad quality of materials used, faulty designs and poor performance.
  - 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.

- 17. The vendor should have Income Tax account (PAN), GST Registration Certificate.
- 18. The item(s) will be used only for research purpose of the Institute and not for any commercial use. Hence, vendors may quote concessional rate of IGST @ 5%. Relevant documents shall be provided by the Institute.
- 19. Minimum 10 days of training should be provided by the bidder till the satisfaction of the user on free of cost.
- 20. The bidder should mention about the utilities required for the setup.
- 21. Upon receipt of the order, the successful bidder must submit the site readiness document with the drawings for enabling NIT to get the site ready for the Centre to function.

#### 22. Delivery:

- a. Time Limit: Maximum within 180 (One Hundred & Eighty) 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 tempered 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, Bijni Complex, Shillong.
- d. Part Delivery: As far as possible no part delivery shall be entertained. However, in extreme cases, 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 equipment, including imposition of Liquidated Damages (LD). The decision of the Director shall be

final and binding to all.

- 23. **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.
- 24. **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.
- 25. Late and delayed tender: Late and delayed tender will not be considered.
- 26. Payment: 80% payment within 30 (thirty) days from date of Successful delivery& Balance 20% after successful installation, training and acceptance. The 80% payment shall be released on confirmation of the receipt of the complete set of equipment in good condition as per the Purchase Order and after its certification by the concerned officials of the Institute.
- 27. Payment will be made through PFMS. Bidders are required to furnish complete and correct bank details on their letterhead along with the technical bid. A scanned copy of a cancelled cheque may also be attached for verification of IFSC code.
- 28. **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.
- 29. 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 Institute's website only and CPP Portal. 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 shall extend the date and time for submission of bids.
- 30. 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.

#### 31. 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.
- 32. **Termination for default:** Default is said to have occurred
  - (a) If the equipment or any of its component is found having poorwork manship, 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.

#### 33. 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 here to 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. <u>COMPLIANCE CERTIFICATE FOR NIO TERMS</u> (To be enclosed in the Technical bid)

| Sl. No. | NIQ Terms and Conditions   |                          |  |  |  |  |
|---------|--|--------------------------|--|--|--|--|
| 01      | Rate quoted as per instruction   |                          |  |  |  |  |
| 02      | AMC rate after warranty provided   |                          |  |  |  |  |
| 03      | Validity of quoted rate for 120 days agreed  |                          |  |  |  |  |
| 04      | "Bid Security Declaration" accepting that if they withdraw or modify their bids during period of validity etc., they will be suspended for the time specified in the tender documents. |                          |  |  |  |  |
| 05      | PBG term agreed  |                          |  |  |  |  |
| 06      | Payment term agreed  |                          |  |  |  |  |
| 07      | Delivery terms agreed  |                          |  |  |  |  |
| 08      | Warranty period agreed   |                          |  |  |  |  |
| 09      | Extended AMC (warranty) period year wise for   | i. 1st year              |  |  |  |  |
|         | three years with rates provided.   | ii. 2 <sup>nd</sup> year |  |  |  |  |
|         | iii. 3 <sup>rd</sup> year  |                          |  |  |  |  |
| 10      | Literature: Printed provided   |                          |  |  |  |  |
| 11      | Dealership/distributorship certificate (in case of dealers/agents) provided  |                          |  |  |  |  |
| 12      | Details of supply to other Institutes of National Importance provided  |                          |  |  |  |  |
| 13      | Equipment break down clause agreed   |                          |  |  |  |  |
| 14      | After Sales Service: address of nearest after Sales Service Centre in the Northeastern/Eastern region provided   |                          |  |  |  |  |
| 15      | Manufacturer certificate provided  |                          |  |  |  |  |
| 16      | Applicable law terms agreed  |                          |  |  |  |  |
| 17      | All other terms and conditions mentioned in the NIQ (Technical & Financial) agreed   |                          |  |  |  |  |

| Signature with | Se | al | <br> |  | <br> |  |  |  |  |  |
|----------------|----|----|------|--|------|--|--|--|--|--|
| Vendor:M/s     |    |    | <br> |  |      |  |  |  |  |  |

#### Annexure-I

# B. <u>COMPLIANCE CERTIFICATE FOR</u> <u>SPECIFICATIONS</u> (One for each item, must to been closed in the Technical bid)

| e:             | Model No:                   |  |  |  |  |  |  |
|----------------|-----------------------------|--|--|--|--|--|--|
| r Annexure-III | Quoted Item Specifications* | Complied/<br>Deviation                     |  |  |  |  |  |
| cification     |                             |  |  |  |  |  |  |
|                |                             |  |  |  |  |  |  |
|                |                             |  |  |  |  |  |  |
|                |                             |  |  |  |  |  |  |
|                |                             |  |  |  |  |  |  |
| ]              | r Annexure-III              | r Annexure-III Quoted Item Specifications* |  |  |  |  |  |

| Signature with Seal: |
|----------------------|
| Vendor: M/S          |

<sup>\*</sup> 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:<br>TheDirector,<br>National Institute of Technology Meghalaya<br>Bijni Complex, Laitumkhrah, Shillong-793<br>003Meghalaya  |   |  |  |  |  |
|--|---|--|--|--|--|
|  | (Name of Supplier) en, inpursuance of Contract Nodated,20to(Description of Goods and Services) herein after called                                |  |  |  |  |
|  | you in the said order that the Supplier shall furnish you with<br>the sum specified therein as security for compliance with<br>ance withtheorder. |  |  |  |  |
| ANDWHEREAS 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 |   |  |  |  |  |
| yourdemandor the sumspecified therein.   | t your needing to prove or to show grounds or reasons for   |  |  |  |  |
| This guarantee is valid until theday of  | 20  |  |  |  |  |
|  | SignatureandSeal ofGuarantors   |  |  |  |  |
|  |   |  |  |  |  |
|  |   |  |  |  |  |
|  |   |  |  |  |  |
|  | Date20  |  |  |  |  |
|  | Address:  |  |  |  |  |
|  |   |  |  |  |  |
|  |   |  |  |  |  |
| All correspondence with reference to this guara  | antee shall be made at the following  |  |  |  |  |
| address:The Director,  |   |  |  |  |  |
| NationalInstituteofTechnologyMeghalaya   |   |  |  |  |  |
| Bijni Complex, Laitumkhrah, Shillong-793<br>003Meghalaya   |   |  |  |  |  |

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

# **Technical Specifications and Compliance**

| Sl. | Description or parameters of desired specification   | Qty    |
|-----|--|--------|
| No. |  | (Nos.) |
| 1   | Specifications for Multichannel Electro Chemical Workstation for Electrochemistry, Corrosion, Sensor, Battery/Fuel cell & Photovoltaic Research  | 01 No. |
|     | No. of. Channels required: 02 independent channels and facility to add few more channels (total 7-10) in future using the same chassis   |        |
|     | Channel 1 Specifications   |        |
|     | Compliance Voltage: ±15-20V or higher Applied voltage: ±12-15 V or higher Voltage accuracy: 0.1% or better Current ranges: ±50uA-±5A or more Minimum applied & measured current resolution: 130-150 Fa Current accuracy: 0.1% or better Impedance frequency range 10 µHz to 5 MHz (or higher) & AC amplitude 0.1mV to 5V   |        |
|     | Channel 2 Specifications   |        |
|     | Compliance Voltage: ±20V or higher Applied voltage: ±15 V or higher Voltage accuracy: 0.1% or better Current ranges: ±10nA-±1A or more Current accuracy: 0.1% or better Cell connection: 2, 3 & 4 Impedance Frequency range from 10 µHz to 5 MHz (or higher) with AC amplitude 0.1 mV to 5V rms. Both the channel should have EIS facility (Both channels should have facility, when connected together, to increase the compliance & working electrode Voltage range up to +/- 30V or higher). Computer interface: USB/Ethernet Power supply: 230VAC/50Hz Additional voltage recording input (ADC) for 0-10V range. Input received in this channel should be scalable and interpretable to control the software measurement protocols. (e-g: recording QCM info etc.) |        |
|     | <u>Computer System</u> : Supplier or Vendor should quote PC and Printer. Branded Desktop Computer with Intel i7 processor, software compatible windows version, 64 bit, 8GB RAM, 1 TB hard drive, Keyboard, Mouse, Monitor - 23" LCD or equivalent configuration.  |        |
|     | <u>UPS</u> -A suitable UPS of minimum 1.5 KVA should be provided for smooth functioning of Controller.   |        |
|     | Software requirements: Software package should consist of voltametry, pulse, battery, super capacitor, Photovoltaic fuel cell, EIS, Equivalent circuit fitting software.  • Voltammetry Software- Cyclic Voltammetry, Linear scan  |        |
|     | Voltammetry, Staircase Voltammetry   |        |
|     | •  |        |

- Impedance Spectroscopy software- Potentiostatic EIS, Galvanostatic EIS
- Pulse software: Differential pulse Voltammetry, Square wave Voltammetry, Stripping voltametry, Chronoamperometry, Chronopotentiometry
- Corrosion: Potentiostatic/Galvanostatic- Gavanodynamic, Tafel , Electrochemical noise
- Battery/Super capacitor: charge/discharge Constant potential, GITT, PITT, Constant current, constant power, I-V
- Complete analysis software for CV
- EIS circuit fitting facility and software with license ( if required) +
- Free Life time up gradation of the software.

#### **Accessories:**

Electrochemical cell kit 50 ml with Purge tube - 1 No.

Glassy carbon working Electrode -1 No.

Platinum counter Electrode-1 No.

Ag/AgCl Reference Electrode-1 No.

Electrode polishing kit-1 No.

H-Type cell for Water splitting application

-1 No.

Screen Printed Electrode carbon -2 Nos.

Screen printed Electrode Holder-1 No.

The system should be installed and Demonstrated at our facility and necessary training should be provided to at least 3-4 users.

#### Warranty

03 years Manufacturer's warranty should be provided.

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# **ANNEXURE-IV**

# TENDER ACCEPTANCE LETTER

(To be given on Company Letter Head)

| Ref. No  | Date:   |
|--|---|
| To, The Registrar National Institute of Technology N Bijni Complex, Laitumkhrah Shillong 793003, Meghalaya   | Meghalaya   |
| Sub: Acceptance of Terms & Conditions Tender Reference No.: NITMGH/  |   |
| NameofTender:  | ······································  |
| Sir,   |   |
| Meghalaya, Shillong as per your adver 2. I / We hereby certify that I / we had Noto (including all annexur abide hereby by the terms / conditions 3. The corrigendum(s), if any, issued the consideration, while submitting this account of the consideration while submitting this account its totality/ entirety. 5. I/WedoherebydeclarethatourFirmhashood. I/We certify that all information furnition be incorrect/untrue or found violations. | from time to time by NIT Meghalaya, Shillong, have also been taken into eceptance letter. the tender conditions of above mentioned tender document(s) /corrigendum(s)in otbeenblacklisted/debarredbyanyGovt.Department/Publicsectorundertaking. ished by our Firm is true & correct and in the event that the information is found ted, then NIT Meghalaya, Shillong shall without giving any notice or reason d or terminate the contract, without prejudice to any other rights or remedy |
|  | Yours Faithfully,   |
|  | (Signature of the Bidder, with Official Seal)   |
|  | ************  |