



राष्ट्रीय प्रौद्योगिकी संस्थान मेघालय  
National Institute of Technology Meghalaya  
Bijni Complex, Laitumkhrah, Shillong 793 003  
Meghalaya, India

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No. NITMGH/ES/FIST-DST/PH/2021-22/995

Date: 09.11.2021

**E-NOTICE INVITING QUOTATION (e-NIQ) FOR SUPPLY & INSTALLATION OF CONFOCAL MICRO-RAMAN SYSTEM UNDER DST-FIST PROJECT IN THE DEPARTMENT OF PHYSICS, NIT MEGHALAYA, SOHRA CAMPUS (CHERRAPUNJEE)**

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:**

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. No.- NITMGH/ES/FIST-DST/PH/2021-22/995

Date: 09.11.2021

**LAST DATE OF SUBMISSION:- on 09.12.2021 at 1:00 pm.**

**Technical bids will be opened on 10.12.2021 at 3:30 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 Dr. K. Senthilkumar, Assistant Professor, Department of Physics, NIT Meghalaya, for any queries @ 9402102371 and email ID @ [akskumar@nitm.ac.in](mailto:akskumar@nitm.ac.in)**
08. For e-waybill the successful vendor has to apply online via <https://ewaybill.nic.in/ewb.html>.
09. Softcopy of the Technical bid either in Microsoft Word or Microsoft Excel format must also be submitted in a CD along with the Technical Bid, in addition to the hard copies.

SIGNATURE OF BIDDER

## **NIQ TERMS & CONDITIONS:**

01. **Rates:** Rates quoted in the Price Bid should be on DOOR DELIVERY NIT Meghalaya, Sohra Campus (Cherrapunjee) 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, Sohra Campus (Cherrapunjee) 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		
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. 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, Sohra Campus (Cherrapunjee), 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.
03. All documents submitted should be self-attested with seal of 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, signed and stamped by the bidder or his authorized representative. Offers received without signature and seal on all pages are liable to be rejected.
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 Three Years 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 data sheet/ literature. The model no. and specifications quoted should invariably be highlighted in the data sheets/ literature for easy reference.

SIGNATURE OF BIDDER

09. Details of supply of similar items to Institutes of National Importance (preferably those located in the Northeastern 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 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 (as per 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. 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 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, Sohra Campus (Cherrapunjee).
  - 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 equipments including the imposition of Liquidated Damages (LD). The decision of the Director shall be final and binding to all.
18. **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.
19. **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.
20. **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.
21. **Payment: 80% payment within 30 (thirty) days from date of Successful delivery & Balance 20% after successful installation, training and acceptance.**
22. **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.
23. 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.** 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.
24. 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.
25. **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.

**26. 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.

**27. 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>“Bid Security Declaration”</b> 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	<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 Literature 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 breakdown clause</b> agreed	
13	<b>After Sales Service:</b> address of nearest after Sales Service centre in the 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)**

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

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, Laitumkhrah, 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, Laitumkhrah, Shillong-793 003  
Meghalaya



**ANNEXURE-III**  
**(Technical Specification)**

**Item: Confocal Micro-Raman Spectroscopy**

**Quantity: 01 (One)**

**Specification details**

<b>Confocal Micro-Raman Spectroscopy</b>	
Spectroscopy	<ul style="list-style-type: none"> <li>• Spectral range: 200 nm (or less) – 2100 nm (or higher)</li> <li>• Raman range: 100 cm<sup>-1</sup> (or lower) to 4000 cm<sup>-1</sup>(or higher)</li> <li>• Spectral Resolution: ≤ 0.5 cm<sup>-1</sup> (vender should specify with suitable optics and gratings to achieve better resolution for 532 nm excitation laser)</li> <li>• Spatial Resolution: 500 nm or better</li> <li>• Rayleigh line rejection filter</li> <li>• Detector: Thermoelectrically air cooled CCD Camera (1024×256 pixels or better) for UV to NIR with peltier cooled down to -60 deg C and free from water and liquid nitrogen. [Detector must be compatible with high humidity environment]. It must be fully automated multichannel detector. The peak QE &gt; 45 % and pixel size of 26 μm x 26 μm or better.</li> <li>• Holographic grating depending on configuration (600 gr/mm and 2400 gr/mm)</li> <li>• Fibre-optic or direct coupling between microscope and spectrometer</li> <li>• Software controlled three turret Motorized Gratings stage</li> </ul>
Microscope	<ul style="list-style-type: none"> <li>• Research Grade Optical Microscope</li> <li>• The microscope should enable single-spot analysis or spectral Raman mapping with an exceptional spectral quality, optical throughput and spectroscopic capabilities.</li> <li>• Sample size: 120 mm in x and y direction, 25 mm in z direction. Should be adaptable to fit larger sizes in Z direction.</li> <li>• Manual Microscopy Stage for sample positioning in X-Y at least 25 x 25 mm<sup>2</sup> for highly accurate single-point spectral acquisition and a Manual z-stage system for sample focus, with a minimum of 24mm travel range.</li> <li>• Objectives: 10x, 50x, 100x</li> </ul>
Excitation Sources	<ul style="list-style-type: none"> <li>• 532nm Laser: DPSS laser system with ≥ 50 mW and single longitudinal mode, TEM<sub>00</sub> transverse mode.</li> <li>• Additional low cut-off filters for 532 nm lasers preferably down to 50 cm<sup>-1</sup>.</li> <li>• Software controlled laser switching</li> <li>• Software based Laser power control with filter wheel and required neutral density filter.</li> <li>• Digital laser power meter in the range of 10 pW to 1 W with accuracy of 0.15%.</li> <li>• Safety equipment and protective eye-glass for Lasers (3 numbers)</li> </ul>
Controller	<ul style="list-style-type: none"> <li>• Flexible and expandable digital controller based on a single Field Programmable Gate Array (FPGA) chip</li> <li>• Fully digital feedback control</li> <li>• Two free FPGA slots for future extensions</li> <li>• The same controller and software should be compatible for use with measurements and system control of the complete set up as mentioned in this requirement listing</li> </ul>
Computer & Software	<p>Integrated computer system for control and data acquisition for Raman</p> <p>CPU: Intel core i5 processor, 16 GB RAM, DVD R/W, 1 TB HDD, wireless keyboard and mouse</p>

	<ul style="list-style-type: none"> <li>• Operating System: windows 10 Pro 64 bit.</li> <li>• Monitor: 24" LCD HD monitor (2560×1440 pixel)</li> <li>• Data acquisition and analysis software with minimum 3 number of software licenses.</li> <li>• Updated library of Raman spectra for inorganic and for organic materials.</li> </ul>
Standard Samples	Standard samples for calibrations
<b>Other requirement</b>	
Manual	All the manuals (both the electronics and hard copy)
Future Upgrades	It should offer full upgradeability to 2D confocal Mapping, 3D Raman imaging, topographic confocal Raman imaging, Atomic Force Microscopy or Scanning Near-field Optical Microscopy etc., Fluorescence microscopy and polarization dependent measurements should be possible with same microscope base as optional upgrade. System should be integrable with low temperature CCR from Montana. Coldedge, Oxford or silimar equipment. Vender should provide at least 1 similar user in India with CCR.
Warranty	3 years onsite warranty from the date of successful installation and commissioning
Drawings	Conceptual Drawings (exm: Schematic drawing of whole unit) and Technical brochures must be submitted along with the unit.
User Training	Training for 3 users should be provided to make them well familiar with the operation of various components.
Pre-Installation requirement	Pre-installation details, such as, room, floor plan, size, electrical requirements and EM & vibration levels etc. should be sent immediately after the placement of the order and the installation site should be measured physically to check its suitability by the vendor. A copy of that needs to be enclosed along with the tender bid.

.....

**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, Laitumkrah  
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