



**NORTH EASTERN HILL UNIVERSITY  
DEPARTMENT OF HORTICULTURE  
TURA CAMPUS, CHASINGRE, MEGHALAYA- 794002**

No. TC/HORT/DBT TWIN/FINANCE/2018-19/2/11

Date. 06.11.2018

**NOTICE INVITING TENDER**

Sealed quotation under two- bid system are invited from reputed manufactures/ authorized dealers for the supply, installation and demonstration of laboratory equipments for DBT (NER), New Delhi sponsored project entitled “**Isolation and characterization of bioactive components from indigenous plants of NEH region for antiurolithiatic potential with standardized phytochemical and pharmacological parameters**” under Dr. Arindam Barman in the Department of Horticulture, North Eastern Hill University, Tura Campus, Meghalaya. List of equipment along with their specifications are mentioned in **ANNEXURE- I**.

**Presentation of Bid:**

1. Quotations will have to be submitted in TWO PARTS i.e. (a) Technical Bid and (b) Price Bid, in two separate properly sealed covers; and both these covers will have to be again put in to a single sealed cover. Also, the address of the firm submitting the quotation and the Officer to whom the quotation is addressed, must appear distinctly on both the inner sealed covers, indicating also **TECHNICAL BID/PRICE BID** as may be applicable. Further, on both the inner sealed covers and the outer sealed cover; the following are to be written: “**QUOTATION FOR LABORATORY EQUIPMENTS**”.
2. In the part relating to **Technical Bid**, the vendor must provide the followings:
  - a. Details of the technical features of the offered equipment along with the patent or proprietary certificate (if any).
  - b. Standard Technical literature on each of the items offered;
  - c. Authorized dealership certificate on the offered products in case of dealer/s;
  - d. List of reputed organizations/Institutions (at least 30 in number), where similar orders have been executed (copies of the purchase/work orders will have to be enclosed);
  - e. Up-to-date Sales Tax clearance certificate/**GST** Registration Certificate/PAN card of the **FIRM** will have to accompany the quotation to be submitted.
  - f. Details of nature and maximum period of standard warranty offered by the vendor along with the **AMC** (Annual Maintenance Contract) services.
  - g. Authorized service support or centre nearest to **NEHU Tura campus, Tura**, along with service engineer contact details should be certified in the quotation.
  - h. Amount of Earnest Money Deposit (**EMD of Rs. 50,000/-**), in the form of **Demand Draft only** in the name of **Joint Registrar, NEHU Tura campus** payable at Tura, Meghalaya will have to be clearly stated and the same will have to be enclosed with Technical bid only.
  - i. A copy of the Price Bid, **WITHOUT THE PRICES**, will have to be provided as part of the technical bid document.

**3. In the part relating to Price Bid, the vendor must provide the followings:**

- a. Quantity, basic price (against item-wise details of specifications of each of the offered items);
- b. Prices of each of the accessories mentioned in the quotations, as required by NIT specifications and also may be relevant for an offered equipment, will have to be specifically stated in the quotation:
- c. Packing & Forwarding Charge, if any.
- d. GST charges should have to be clearly indicated.
- e. Freight & insurance charge, if any.
- f. Details of nature and maximum period of standard warranty (minimum one year) offered by the vendor.
- g. Annual Maintenance Contract (AMC) rate (after expiry of warranty period) for at least 2 years is to be clearly indicated – preferably in both comprehensive and non-comprehensive terms, failure to which the offer may not be considered even if it turns out to be at the lowest price.
- h. Installation & commissioning charge (including Service Tax), to be shown item-wise extra, if any.
- i. Price bid demo:

**PRICE BID  
FOR SUPPLY & INSTALLATION OF LABORATORY EQUIPMENTS**

Sl. no	Item	Make & Model	Description	Unit Price	GST	Warranty (In Years)	Extra	Qty	Total Price (Rs. in figure & word)	AMC Charges for 2 years (After warranty)

Signature of Tenderer with seal

**NOTE: The bid documents are not transferable and the firm's seal and signature of the authorized official must appear on all the papers and envelopes submitted.**

### **Terms & Conditions:**

1. All the interested manufacturers/ authorized dealers shall submit their Bids to the following address: **Dr. Arindam Barman, Assistant Professor & Principal Investigator, DBT Twinning for NER, Department of Horticulture, North Eastern Hill University, Tura Campus, Chasingre, Meghalaya- 794002.**
2. The quotations should reach only by speed post/registered post/courier on or before 26<sup>th</sup> November, 2018 (up to 3:00 pm) and no other means of receiving of quotation will be entertained. The quotations will be opened at office of the undersigned on 27<sup>th</sup> November, 2018 at 2:00 PM. Representatives of the firm may also if desire be present at the time of opening of quotation (Technical Bid). Quotation received after the due date and time will be treated as cancelled. The university and principal investigator of the project shall not be responsible for any postal/courier delay. In any conflict the university reserves the right to accept or reject the quotation without stating any reason whatsoever and no queries in this regard will be entertained.
3. Rates of equipments should be quoted in Indian currency only on F.O.R., Department of Horticulture, NEHU Tura campus, on Door Delivery basis. Rates of equipments quoted in other currency will be treated as cancelled.
4. Educational discount if any should be clearly mentioned.
5. Price bid will be opened for only technically qualified firms.
6. The Purchase Committee can accept or reject any quotation based on the specification mentioned in the Annexure 1 for equipment without assigning any reason thereof and does not bind it to accept the lowest rate whatsoever. The decision of purchase committee shall be final.
7. The rate of items should be inclusive of all charges like packing, forwarding, handling, transportation, GST etc. and all other (If applicable) FOR., at Department of Horticulture, NEHU, Tura, Meghalaya. The rates should be firm and nothing extra will be paid in any case. AMC will have to be mentioned separately.
8. Proprietary items should be quoted with sole Manufacturer/Distributorship certificate.
9. Any loss or damage of items before/during delivery, installation and demonstration would be borne by the supplier only.
10. Quoted rates must valid for 180 days.
11. User list of quoted equipments should be enclosed along with the quotation and the quoted instruments should have prior installation in at least 30 places in India.
12. NEHU will not provide Road permit for the supply of equipment and it will have to be bear by the supplier only (if applicable).
13. **Warranty/Guarantee:**
  - a. The material should be quoted with a standard Warranty/Guarantee period (minimum of one year) after the date of delivery and acceptance at final destination. Comprehensive On-Site Warranty shall be provided at the place of installation of the items.

- b. The bidder shall furnish the warranty certificate for all the items at the time of delivery and installation. The purchaser shall reject the items not enclosed by the warranty certificate from the manufacturer. The warranty certificate should be duly signed and sealed.
  - c. The supplier shall provide free onsite maintenance services during the period of warranty. Any repair and maintenance including provision of spare parts (covered by the manufacturer's warranty certificate) during the warranty period shall be bidder's responsibility.
  - d. The maximum response and defect restoration time should not be more than three weeks during the warranty period. In case the defect/ malfunction of an item cannot be rectified within three weeks, the supplier will be required to arrange for immediate replacement of the same till it is repaired. On failure to arrange for immediate repair/ replacement as mentioned above, there will be a penalty of Rs. 300.00 (Rupees three hundred) per day and in this regard the successful bidder will have to submit an undertaking on Rs. 100 non-judicial bond paper (format will be given by PI of the project) at the time of supply of equipment, failing which payment will not be released.
  - e. If the supplier having been noticed fails to remedy the defects within three weeks, the purchase reserves the right to take such remedial action as may be necessary, at the supplier's risk and expense and without prejudice to any other rights which the purchaser may have against the supplier under contract.
- 14. Delivery:** The stated delivery of goods at Department of Horticulture, NEHU Tura Campus, Meghalaya will have to be maximum within 6 weeks from the date of issue of the Purchase Order. All aspects of safe delivery shall be the exclusive responsibility of the vendor. If the firm fails to deliver the goods within the stipulated time, the purchase order may get cancelled and the Earnest money will be forfeited. After delivery of items, the party should start installation of the items at Department of Horticulture, NEHU, Tura Campus, Meghalaya. The system must be installed at the laboratory, and after installation a basic training must also be provided by the supplier or their Indian counterpart without any additional costs.
- 15. EMD:** The earnest money of **Rs. 50,000/-** in the form of **Demand Draft** in the name of **Joint Registrar, NEHU Tura campus** payable at Tura, Meghalaya should accompany the quotation, failing which the quotation will not be considered. Please note that earnest money deposit do not bear any interest, and have to be in the form of demand draft only.
- 16. Performance Security deposit:** Successful bidder will have to furnish an unconditional Performance Bank Guarantee (PBG) valid till 60 days after the warranty period from a scheduled Bank for 5% of the Purchase Order value within 15 days of placement of order as Security deposit failing which the contract shall be deemed as terminated. The security **deposits do not bear any interest** and shall be release after expiry of warranty period of the items. The PBG shall guarantee that: a) the vendor/firm guarantees satisfactory

performance of the surveillance system against poor workmanship, bad quality of items and equipment used, faulty designed and poor performance, b) the firm/vendor shall at his own cost, rectify the defects/replace the items supplied defects/identified items during the period of guarantee.

17. Items of Foreign origin should have insurance up to installation on site.
18. The Quotation Notice number and date should be clearly superscripted in the envelope/packet containing the quotation.
19. Quotation should be inclusive of GST, transport, installation charge etc F.O.R., Department of Horticulture, NEHU Tura campus, on Door Delivery basis.
20. The payment will be completed only after the installation and demonstration of the instrument. Necessary bank details should be provided along with the triplicate bills and should have to be clearly mentioned in the bill.
21. **Dealership Certificate:** Dealership certificate (in case of dealers) and standard Technical literature on the offered products must be enclosed, failing which quotation will be treated as cancelled.
22. **Rate of AMC:** The cost for Annual Maintenance Contract rate (after expiry of warranty period) for at least 2 years is to be clearly indicated. The selected supplier/s is to ensure regular availability of spares.
23. **Excise Duty:** The NEHU is exempted from payment of Central Excise Duty vide GOI Notification No. 10/97-Central Excise, dated 01.03.97.
24. **Late and delayed quotation:** Late and delayed quotation will not be considered. In case any unscheduled holiday occurs on prescribed closing/opening date the next working day shall be the prescribed date of closing/opening.
25. **Ground for Rejection of Quotation:** Quotations are liable to be rejected, if the foregoing conditions are not complied with. The quotation should be complete in all respects and duly signed wherever required. Incomplete and unsigned offer will not be accepted.
26. **Termination for default: Default** is said to have occurred
  - a. If the supplier fails to deliver any or all of the services/installation within the time period(s) specified in the purchase order or any extension thereof granted by Department of Horticulture, NEHU Tura campus.
  - b. If the supplier fails to perform any other obligation(s) under the contract.
  - c. If the vendor, in either of the above circumstances, does not take remedial steps within a period of 10 days after receipt of the default notice from Department of Horticulture, NEHU Tura campus (or takes longer period in spite of what Department of Horticulture, NEHU Tura campus may authorize in writing), Department of Horticulture, NEHU Tura campus may terminate the contract / purchase order in whole or in part and forfeit the EMD. In addition to above, Department of Horticulture, NEHU Tura campus may at its discretion also take the following actions: Department of Horticulture, NEHU Tura campus 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 Department of Horticulture, NEHU Tura campus for any extra expenditure involved towards goods and services to complete the scope of work as mentioned.

27. The Principal Investigator (PI) of the project and university reserves the right to purchase or change or withdraw the notification at any point of time of purchase and even if after opening of quotation and in any conflict the decision of university and principal investigator (PI) of the project will be final.

**28. Applicable Law**

- a. The contract shall be governed by the laws and procedures established by Govt. of India, within the framework of applicable legislation and enactment made from time to time concerning such Commercial dealings/processing.
- f. All disputes are subject to exclusive jurisdiction of Competent Court and Forum in Tura, Meghalaya, India only. Any other jurisdiction mentioned in the quotations or invoices of the Binder shall be invalid and shall have no legal sanctity. Any dispute arising out of this purchase shall be referred to the Pro-Vice-Chancellor, NEHU Tura campus, Tura, 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 Pro-Vice-Chancellor, Tura campus. The decision of such Arbitrator shall be final and binding on both the parties.

Sd/-

**Dr. Arindam Barman**  
**Assistant Professor & PI**  
**Department of Horticulture**  
**North Eastern Hill University**  
**Tura Campus, Meghalaya- 794002**

**Technical specifications for Laboratory Equipment**

Item	Specifications for laboratory Equipment
Liquid chromatography instrument	<p data-bbox="431 317 1036 352"><b>1. <u>HPLC Pump ( or delivery system) - 2 NO.'s</u></b></p> <ul data-bbox="492 359 1469 1136" style="list-style-type: none"> <li>• 2 Nos. of integrated HPLC pumps with dual reciprocating pistons and non circular gear driven, free standing pump should be provided to work in Isocratic, Binary Gradient and semi preparative mode. The pumps should be able to work on fully analytical &amp; semi-preparative mode separately with 100 ul &amp; more than 220 ul or better for Analytical &amp; Semi-preparative applications.</li> <li>• Programmable flow range/rate: 0.000 to more than 22.000 ml/min per pump with 0.01 ml/min increment or better for all kinds of Semi-Preparative application.</li> <li>• The system delay volume should be lesser than 200 µl for high sensitivity. It must be mentioned in the data sheet provided by the vendor.</li> <li>• The system should be capable of delivering precise volumes of mobile phase with minimum 48 step/µl or better.</li> <li>• Flow Precision: 0.1% RSD or better.</li> <li>• Maximum Pressure: 6000 psi throughout entire Flow rate.</li> <li>• Flow accuracy : + 1% or better</li> <li>• The system should be capable to withstand the retention time variations of less than 0.1% for highly reproducible peak performance.</li> <li>• Should have the capability to operate in at least 11 or more various gradient curve mode including Linear, Step, concave, convex. Exponential etc.</li> </ul> <p data-bbox="431 1184 1425 1220"><b>2. <u>Manual Injector for both Analytical &amp; Semi-Preparative/Preparative mode:</u></b></p> <ul data-bbox="480 1234 1469 1507" style="list-style-type: none"> <li>• Should be Rheodyne injector having dual injector facility of Analytical &amp; Semi-Preparative/Preparative mode separately in the same panel. Proper Design must be mentioned / submitted. The Preparative mode must be provided with a 5 ml loop.</li> <li>• Should have the construction for sample load without interruption of flow.</li> <li>• Death volume-free syringe guidance must be present along with Built-in injector signal.</li> </ul> <p data-bbox="431 1549 1435 1633"><b>3. <u>PHOTO DIODE ARRAY DETECTOR with Analytical &amp; Semi-Preparative Flow Cell</u></b></p> <ul data-bbox="480 1648 1469 1887" style="list-style-type: none"> <li>• Wavelength range : 190-800 nm</li> <li>• Wavelength repeatability :± 0.1 nm</li> <li>• Wavelength Accuracy: ± 1 nm; should be done by Erbium Filter.</li> <li>• Optical resolution: 1.2 nm &amp; Digital Resolution must be 1.2 nm/pixel.</li> <li>• Date Acquisition : Up to 80 Hz</li> <li>• Light Source: Should be a Single Deuterium lamp covering entire range ; Lamp</li> </ul>

	<p>should be of 2000 hrs warranty without drop in the energy level with appropriate backup from software and hardware. It should be associated with Lamp optimization software to ensure consistent high sensitivity applications &amp; reproducibility.</p> <ul style="list-style-type: none"> <li>• Flow cell Design: Should be Taper Slit only to avoid total internal reflection.</li> <li>• Cell Volume: Less than 8.5 ul for analytical cell &amp; Less than 16.5 ul for semi-preparative cell.</li> <li>• Spectral Resolution/Optical Band pass: 1.2nm per photodiode with a total of 512 photodiodes, digital and optical (3D mode)</li> <li>• Operating mode : Both 2D and 3D</li> <li>• Sensitivity Setting Range: 0.0001 – 2.0000 AUFS.</li> </ul> <p><b>4. <u>FRACTION COLLECTOR</u></b></p> <ul style="list-style-type: none"> <li>• The Fraction Collector should have a durable X-Y movement mechanism and 3-way diverter valve to manage the collection of purified peak fractions into Test Tubes, microtiter plates, eppendorf tubes, scintillation vials , bottles &amp; flasks. It should be controlled by the software.</li> <li>• It should be Universal Fraction Collector for Analytical and Preparative HPLC with standard rack for 120 tubes up to 180 mm height &amp; diverter valve for standard-applications (should be compatible with all racks). The maximum flow should be 300 ml/min.</li> </ul> <p><b>5. <u>SOFTWARE</u></b></p> <ul style="list-style-type: none"> <li>• Should be Embedded Oracle data base of version 10G.</li> <li>• Should have option for manual Integration</li> <li>• Should have option for versatility for multitasking without multiple software packages</li> <li>• Customizable data reports, online help and answer wizards.</li> <li>• Should have option for data integrity along with advanced security measures</li> <li>• The software should be able to show the capability of the system to operate in at least 11 or more various gradient curve mode including Liner, Step, concave, convex. Exponential etc.</li> <li>• The Software must contain the GPC / Gel Permeation Chromatography database by default so that the whole system can also get converted into a GPC system.</li> </ul> <p><b>6. <u>Columns with Guards &amp; Accessories</u></b></p> <ul style="list-style-type: none"> <li>• Analytical Column C18 (250 x 4.6 mm x 5μ)</li> <li>• Semi-Preparative C18 (250 x 10 mm x 5μ) with Optimum Bed Density Technology</li> </ul>
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	<ul style="list-style-type: none"><li>• <b><u>ADDITIONAL COLUMNS TO BE QUOTED SEPARATELY</u></b>  C8 Semi-Prep Column 10 x 250 mm, 5um Normal Phase Semi-Prep Column 10 x 250 mm, 5um Ion Exchange Column 10 x 250 mm, 5um</li></ul> <p>7. A thorough Demonstration, Commissioning &amp; Detailed training on Instrument has to be provided by the vendors on site.</p> <p>8. All the claimed specifications must be duly submitted with proper documentations &amp; proof. It must be mentioned in the manufacturers Data Sheets / Catalogues / Public Portal. The Compliance sheet must be submitted in details without any vague statement. The published specifications must be strictly followed by all the bidders. Deviations must be clearly mentioned in the compliance statement.</p> <p><b><u>ALL SHOULD BE FULLY SOFTWARE CONTROLLED</u></b></p>
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