

OFFICE OF THE REGISTRAR : BODOLAND UNIVERSITY

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F. No – BU/NEC/RES/2022/03/ 1076

date- 02/11/2022

Notice Inviting Tender

Sealed Tenders are invited from reputed manufactures/authorized dealers/suppliers for Supply, Installation and Commissioning of HPLC system at NEC sponsored project of Bodoland University. Detailed specification of the items, terms & conditions etc are given below. Last date of submission of Tender with all relevant papers is 21/11/2022 up-to 12:00 noon to be submitted at Tender box of Bodoland University.

The tender should be submitted in one sealed envelope containing two separate envelopes i.e. Part –I TECHNICAL BID and Part –II FINANCIAL BID. The technical bid shall be opened on above mentioned date and time and the financial bid of only those bidders who qualify in technical bid shall be opened on the same date or at a later date which shall be intimated to the bidder whose technical bid are found to be valid. Detailed specification and any other special features along with company manuals, receipt of Tender fee deposited should be submitted with their Technical bid.

The bidders are advised to visit the website www.buniv.edu.in for download the detail forms.

The tender fee for an amount of Rs. 10,000/- (non-refundable) and EMD 2% of total quoted amount (Re-fundable) should be deposited in the Bodoland University Account No. 31607155480, IFSC Code- SBIN0007379 by online mode. The receipts of the tender/EOI fee and EMD deposited should be submitted along with the technical bid. In case, if any Bandh/Holiday falls in any respect/sequence, the sequence will be held in the next working day.

The university authority reserves the right to reject or accept any one or all tender without assigning any reasons thereof.

Registrar

Copy to :-

1. The P.S to the V.C for kind appraisal to him.
2. The Finance Officer, i/c, for information.
3. Prof. Sandeep Das, P.I. NEC sponsored Project for information.
4. The System Administrator for upload in university website.
5. The Member Secretary, Purchase Committee for information.

Registrar

Technical specifications and General instructions/informations :-

Tender Specification for Analytical cum Semi Preparative HPLC System

Two Independent pumps High Pressure Binary Gradient HPLC system, both the pumps should have pressure-bearing capacity of 42MPa or better.

HPLC Pump: - **2 Nos (individual module).**

Analytical cum Semi Preparative solvent Delivery Unit 2 numbers for binary gradient High Pressure Binary Gradient System

Flow Rate: 0.01mL/min to 20mL/min or higher in each pump without adding any external hardware/changing pump head. No additional hardware/Pump head /Flow rate extension kit should be required and quoted to match the flow rate.

Flow Rate Accuracy: $\pm 1\%$

Flow Rate Precision: 0.08% RSD or better

Maximum discharge pressure: 7000psi or better

Gradient Mixer for analytical and semi preparative should be quoted separately:

Injector:

Manual injector set for analytical: - 1 set
with 20 μ L loop 25 μ L syringe, 100 μ L loop, 100 μ L syringe

Manual injector set for semi preparative/preparative: - 1 set
with 500 μ L loop, 500 μ L syringe, 1ml loop, 1ml syringe

Photo Diode Array Detector: - 1 no

Wavelength range 190 nm-800 nm or better

No of Diode elements: 1024

Light source: Deuterium Lamp, Tungsten Lamp

Wave length accuracy: ± 1 nm or better

Wavelength precision: 0.1nm or better

Drift: 0.4×10^{-3} AU/Hour or better

Noise levels: $\pm 4.5 \times 10^{-6}$ AU or better

Linearity: 2.5 AU (ASTM method) or better

Band / Slit width: 1.2nm, 8mm with slit switching facility for better resolution & sensitivity.

Flow cell must be Temperature controlled from 19°C to 50° C with 1°C step

Optical wavelength: 10 mm, Flow cell capacity: 12 μ L, Flow cell pressure: 12 MPa

PDA/DAD should be capable enough to use "Intelligent Peak Deconvolution Analysis" technique to enables the extraction of a single peak from co-eluted peaks by utilizing differences in spectra and to help to detect impurity peaks in a target peak as well as "Intelligent Dynamic Range Extension Calculator" to extend the linear dynamic range of calibration curves, enabling reliable quantitation of high concentration samples without need for sample dilution and reinjection,

Fraction Collector with below Vials and racks:

- 1 set

The fraction collector will ensure automatic collection of fractions for isolation and purification purpose in vials/test tubes/ big bottles through robotics. Suitable Racks to be quoted for accommodating the vial/ test tube capacities of 3.5 ml & 4.5ml. The quoted fraction collector must include below.

3.5ml Test tube/ vials ...250pcs/set

4.5ml Test tube/ vials250pcs/set

Chromatography software:

-- 1 set

- Operation of the system should be very easy and intuitive via a state-of-the-art windows-based software
- Complete system control software all parameters should be computer controlled.
- Single access point for system administration, data acquisition, post run analysis and long-term data management.
- Software must have its own log files for complete audit trails with 21 CFR part 11 Compliance
- The quoted software must have integral SQL/Oracle database.

Column:

RP-C18 analytical column 250 mm x 4.6mm, 5 μ - 1number

RP-C18 semi preparative column 250 mm x 10 mm, 5 μ - 1number

Others:

Recycle valve useful for purification work, column holder, tool kit, sample solvent filtration assembly, 3L capacity sonicator, 1000 nos vials, caps & septa etc should be included.

Essential Installation accessories:

Suitable branded PC with minimum Core i-5 processor and 1 TB HDD, Laser Jet Printer, 1.5 Ton AC and 3 KVA online UPS with 30 minutes back up one number each and one set of HPLC compatible table & chair must be quoted along with the Analytical cum Semi-Preparative HPLC for smooth installation of the system.

It should be a leading company/authorize partner or distributor in this field and the quoted HPLC should be a latest model launched not more than last 5 years' time, which could be upgradeable as and when needed and published brochures and specification sheets should support the quoted and claimed specifications.

The vendor should have at least 10 years of experience in sales and after sales service of the HPLC systems in India. There must be some service support base available in Guwahati, Assam.

Installation: Training and installation should be clearly mentioned and it has to be done in person at Bodoland University Kokrajhar site of installation.

Application Support: Local application support facilities must be available at Guwahati and on-site applications support need to be provide whenever required at the site of installation during warranty period at free of cost. The participating bidders must have to provide the details of the concern person/s including contact no and email address, who is/are based at Guwahati, Assam. This will be one of the most important criteria for selection of the bidders for this tender.

Manufacturer should be renowned ISO 9001:2015 certified Company with a record of minimum number of installations in India in reputed Government organizations like IIT's, IISER's, CSIR, ICAR, Central/State Universities, institutions etc Complete user list of models quoted with contact details such as email & mobile numbers preferably with the name of the end user should be enclosed with quotation.

Warranty: 3-5 years manufacturer's warranty must be included for the complete HPLC system (the more the better).

For evaluation purposes of HPLC, if necessary, the equipment has to be demonstrated in our Laboratory, or in a customer's place or in manufacturer's facility (for Indigenous manufacturers only)

SPECIFICATION FOR ROTARY VACUUM EVAPORATOR

Vertical Double Coil Condenser with:

Evaporating Flask – 1Ltr: 1 No.,

Receiving Flask – 1Ltr: 1 No.

Specifications:

- Height adjustment: 155mm with Manual Lift.
- Condenser: Vertical
- Rotation speed RPM: 20-320
- One (single) piece Vapour Tube
- Integrated Combi-Clip (Clamp) for Evaporation Flask
- Suitable for 50 ml to 5000 ml Evaporation Flask
- Rotation speed setting : LED display
- Rotation speed drive: induction motor with electronic speed control
- Motor Power: 60 W
- Heating capacity :1300 W
- Total Power: 1360 W
- Temperature range heating bath: 20-210°C
- Temperature accuracy bath : 1°C
- Over protection bath : cut off at 5° C over set temperature via separate Pt100
- Bath temperature setting: Digital LED display
- Heating bath temperature control: electronic /digital display
- Secondary over temperature cut off : 250°C
- Material heating bath : Ceramic Coated
- Volume heating bath (L): 4.5L Dia 255mm
- Sealing Ring: PTFE
- PTFE Charging pipe connected with Stop-Cock.
- Power supply: 230V AC, 50Hz.

Diaphragm Vacuum Pump,

Chemical-resistant, 2 stage PTFE diaphragm for use in the laboratory flow rate of 2.0 m³/h and an ultimate vacuum of 7 to 9 mbar.

Specifications:

- Ultimate vacuum – 7 to 9 mbar
- Power Input – 180 watts
- Max back pressure – 1 bar
- Max pumping speed – 2.0 m³ /h
- Inlet Connection – 10mm
- Outlet Connection – 10mm
- Noise level – 45 Dba
- Supply voltage: 230 VAC, 50 HZ.

Re-circulation Chiller,

- Working temperature range -15°C to +20°C
- Temperature Stability ± 1°C
- Cooling capacity 500w @ 0°C
- Pump pressure max 0.7 bar
- Pump flow max 18 L/min.
- Bath Volume 4.5L
- External Body & Bath Stainless Steel
- Size 260mm (L) x 490mm (W) x 430mm (H)
- Suitable for 1 Rotary Evaporator
- Supply voltage 230 VAC, 50 HZ.

Requisite furniture shall be needed for keeping the instrument with relevant accessories

The participating bidders must have to quote all the items mentioned in the tender and the bidders are requested to quote from reputed brands like Waters, Shimadzu, Agilent, ParkinElmer, ThermoFisher, Merck Millipore and brands which are at least 75 years in service with good bench mark.

RESPONSE FORM

The form should be typewritten in uppercase (or written in capital letters) and completed clearly and accurately ensuring that all questions are answered. The numbers below correspond to item numbers on the registration form.

SECTION 1: COMPANY DETAILS AND GENERAL INFORMATION

1. NAME OF COMPANY/INSTITUTION:

2. STREET ADDRESS:

3. P.O. BOX and MAILING ADDRESS:

4. TEL NO: _____ **6. E-MAIL ADDRESS:** _____

8. CONTACT NAME AND TITLE:

9. PARENT COMPANY (Full legal name):

10. SUBSIDIARIES, ASSOCIATES AND/OR OVERSEAS REPRESENTATIVE(S):
(Attach list, if necessary)

11a. NATURE OF BUSINESS (Tick one box only):

Manufacturer: **Traders:** **Authorized Agent:** **Consulting Company:**

Other (specify): _____

11b. TYPE OF BUSINESS:

Corporate/Limited: **Partnership:** **Government Agency:** **University:**

Other (specify): _____

12. YEAR ESTABLISHED: _____ **13. NUMBER OF FULL-TIME EMPLOYEES:** _____

14. TRADE LICENCE NUMBER: _____

TERMS AND CONDITIONS :-

GENERAL INFORMATION

The tender bids duly complete in all respects, along with the necessary documents should be submitted to the Registrar, Bodoland University. The Technical Bids so received, shall be opened on 21/11/2022 at 12.00 noon in the Office of the Registrar, Bodoland University in the presence of the representatives of the bidders. The Financial bid of the Bidders shall be opened on the same date or at a later date to be intimated to the bidders whose Technical Bids are found to be valid. Right to reject any or all Tenders, without assigning any reason thereof is reserved by the authority of Bodoland University.

Terms and Conditions of Supply:

1. All the manufacturers/ distributors should also give a brief profile about their company and the facilities available with them of the quoted items. Their turnover and important firms/ Government Institutes/ P.S.U. etc. to which they are supplying quoted items, should also be mentioned.

1. The last date and time for the acceptance of the bids is 21/11/2022 up-to 12:00 noon.

2. Suppliers should be submitted the following documents along with their quotations:

a. Technical Bid:

Cover-I

(a) Unconditional Covering Letter,

(b) The contractor's experience of successful execution of similar works having value mentioned in the N.I.T. The details of work order and work completion certificate from the executing officers may be furnished for establishing eligibility.

(c) **PAN, GST Registration, ESI certificate, EPF certificate, Labour License, Trade License, Bank balance sheet, experience certificate Income Tax Clearance Certificate, GST Registration Certificates etc.**

(d) Tender documents.

(e) Tender fee deposited receipt.

(f) Non black listed certificate in stamp paper.

b. **Financial Bid :** The Tender document with Bill of Quantities, duly priced and the **Cover-II** enclosed set of Tender Drawings duly signed.

(c) Technical specifications offered by the Supplier.

(d) Technical compliance table

(e) Technical literature regarding the offered products including diagrams.

3. The rates should be mentioned in the Schedule attached with the Tender Document. Each page of the tender shall be signed in full and stamped with the seal by the supplier. The supplier must clearly state in what capacity he or she is signing the Tender.
4. The supplier shall submit the tender in two envelopes. The first envelope (Technical Bid) shall contain all the documents referred to in above and sealed. The second envelope (Commercial Bid) shall contain the Schedule, in which the supplier shall register the rates of supply. The second envelope shall also, likewise, be sealed. Both the envelope then should be put together, and should be sealed in an envelope on which the cut out slip provided as part of the tender document should be pasted, and should prescribe time and date. The Technical Bid shall be opened first to ensure that suppliers have submitted all the requisite documents. If the Technical Bids are not in order or are deficient in some respect, the commercial bids in respect of such tenders shall not be opened. The date and time of opening the financial bids shall be announced one day after opening all the Technical bids.
5. Supplier should read carefully all the instructions and terms and conditions, etc before registering rates in prescribed schedule of the tender. Taxes and duties etc. should be shown separately.
6. The Technical Documents shall be opened, at 12:30 P.M. on 21/11/2022 or on the next working day if the offices of the University remain closed due to any reason.
7. Technical specifications of the instruments/equipments are given separately.
8. The delivery and installation should be completed within 45 (forty five) days or as specified from placing of the order. No extension shall be granted to the contractors/suppliers for the period of delivery, under any circumstances.
9. If the supplier fails to deliver the article as per the delivery schedule, the University shall be free to procure the balance/undelivered supply, at the risk and cost of the supplier, from other such suppliers.
10. The goods, articles, materials supplied by the supplier shall be accepted after inspection by an officer authorized by the competent authority. No articles/materials which do not conform to the specifications laid down in the terms and conditions or damaged in transit shall be accepted.
11. The bills of the suppliers shall be paid by the University after all the materials/articles/equipments have been received and installed, inspected.
12. Supplier/Vendor must submit Compliance statement in tabular form comparing each specification of the quoted item with that given in the Tender Document
13. The bidder has to install all the required applications provided by the user and also has to provide at least 1 (one) day training to the user including their group.
14. This tender document is not transferable.

15. In the event of any breach of the terms and conditions of the supply, the University may terminate the contract placed with the supplier and forfeit the security deposit of the supplier.
16. The Bidder shall have to be an Original Equipment Manufacturer (OEM) certificate of the products.
17. The bidder should have average annual sales turnover of Rs.50.00 lakh or more during the last three financial years ending 31st March, 2022. Attach firm's last 3 years audited profit and loss Account balance sheet duly audited by C.A.
18. The quantity as mentioned may be increased or decreased at the time of placing Order as per requirement.
19. Bidders are advised to study all technical and commercial aspects, instructions, forms, terms and specifications carefully in the tender document. Failure to furnish all information required in the Tender Document or submission of a bid not substantially responsive to the Tender document in every respect will be at the bidder's risk and may result in the rejection of the bid.
- 20. If the Supplier/Firm could not meet up the standard of the work or not up to the satisfaction of the authority during execution and supply, the authority would not liable to release the payment for partially or whole of the work, as desired, whose decision would be the final. The Supplier/Firm should be bound to accept the decision without any claim thereof.**
21. The payment of bill against the supply work would be paid directly to the concerned firm by the NEC, Government of India or by the University, if the fund would be deposited by the NEC to the University. The University shall not be responsible in any manner for the payment against bill by the NEC, Govt. of India. The Supplier/Contractor/Firm should be bound to accept the decision without any claim thereof.
22. Any dispute between the Parties on matters concern shall be resolved by mutual discussion and legal recourse shall be only as last resort, in which case the matter shall be submitted for Arbitration subject to Kokrajhar Jurisdiction only.
23. Note:
 1. (a) Bidders are advised to read carefully the Terms and Conditions of supply before recording the rates in this Schedule. Bidder should sign all the relevant documents along with Tender documents and should be submitted with the technical bid. Before submission of the Tender, Bidder shall sign each page of the tender form/document and all of its relevant papers with date. The additional alternative and or subtractive clause (if any) shall also to be signed by the bidder, otherwise Bid documents may be treated as cancelled.

(b) No erasures or overwriting shall be allowed, unless they are authenticated under the full signature and the seal of the bidder.

(c) The University reserves the right to:

(i)Accept/reject any/all tenders without assigning any reason thereof.

(ii)Revise the quantities at the time of placing the order without change in the rate quoted by the bidder.

(iii)Add/modify/relax or waive any of the conditions stipulated in the tender document whenever deemed necessary.

(iv)Award the contract to one or more bidders for the items covered by the tender.

Declaration

1. I declare that all the terms and conditions stated in the Notice Inviting Tender are acceptable to me/us and I/We shall abide by the same in case the contract is awarded to me/us.
2. I also declare that the specification given would strictly be maintained by me/us.
3. I/we understand that non-fulfillment and/or partly fulfillment of specification as made is liable for penalty as deemed fit and necessary by the University authority.
4. All the particulars furnished by me/us in the bid are true to the best of my/our knowledge.
5. I/We will also abide by the conditions that should be stipulated during the period of contract.
6. The decision of the authority will be accepted by me/us during and after the bid evaluation process, without any assigning reason thereof.

Date:

(Signature of the Bidder)

Name:

Place:

Contact Number:

Address:

Financial bid:-

Sl. No	Particulars	Quantity	Rate	Amount in Rs. Including all taxes.
1	HPLC system with its mentioned accessories at specification. Preferable reputed brands like Waters, Shimadzu, Agilent, Parkinelmer, ThermoFisher, Merck Millipore and brands which are at least 75 years in service with good bench mark.	1 set		

Signature of supplier with seal

Registrar