OFFICE OF THE REGISTRAR :: DIBRUGARH UNIVERSITY
DIBRUGARH :: ASSAM
PIN: 786 004

BID DOCUMENT

FOR

NAME OF THE WORK: **Supply, installation and commissioning of Laboratory Equipment at Department of Pharmaceutical Sciences, Dibrugarh University.**

TENDER No: DU/NIT-2022/File-V/100 dated 07.03.2022

CUT-OUT SLIP

NAME OF THE WORK: Supply, installation and commissioning of Laboratory Equipment at Department of Pharmaceutical Sciences, Dibrugarh University.

TENDER No: DU/NIT-2022/File-V/100 dated 07.03.2022

SUBMISSION DUE DATE & TIME : 21.03.2022 up-to 11.00 A.M.

FROM:

NAME:
ADDRESS

TO:

THE REGISTRAR
DIBRUGARH UNIVERSIITY
DIBRUGARH, ASSAM

(To be pasted on the outer envelope containing “Technical”& “Commercial” bids

OFFICE OF THE REGISTRAR :: DIBRUGARH UNIVERSITY :: DIBRUGARH

No. DU/ NIT-2022/File-V/100 **Date: 07.03.2022**

Tender Notice

Sealed Tenders are invited from reputed manufactures/authorized dealers/suppliers for Supply, installation and commissioning of Laboratory Equipments [(i) Fully Automatic Rotary Microtome, (ii) Biochemistry Analyser/ Autoanalyzer (Semi-automatic) and (iii) Rheometer] at Department of Pharmaceutical Sciences, Dibrugarh University. Detailed specification of the items, terms & conditions etc are given at Part-B. Last date of submission of Tender with all relevant papers is ***21.03.2022 up-to 11:00 A.M.*** to be submitted at the Office of the Registrar, Dibrugarh University, Dibrugarh, Assam.

Availability of Bid papers	From 07.03.2022
Last date for receipt of Bid	21.03.2022 upto 11:00 A.M.
Time & Date of opening of Bid	21.03.2022 at 02:30 P.M.
Place of opening of Bid	Office of the Registrar, DU
Cost of Tender Document	1000/- Non refundable
EMD	2.5 % of the Tender value

The tender should be submitted in two separate sealed 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 tenderer whose technical bid are found to be valid. Dibrugarh University reserves all the rights to reject any or all the tenders without assigning any reason thereof.

Sd/-
Registrar
Dibrugarh University

Copy to:

1. The Deputy Registrar (F&A) i/c, D.U. for information.
2. The Programmer, D.U., with a request to upload the NIT at D.U. website.
3. Office File

Sd/-
Registrar
Dibrugarh University

PART A - TERMS AND CONDITIONS

GENERAL INFORMATION

The tender bids duly complete in all respects, along with the necessary documents should be submitted to the Registrar, Dibrugarh University, Assam. The Technical Bids so received, shall be opened on ***21.03.2022 at 02:30 P.M.*** in the Office of the Registrar, Dibrugarh University in the presence of the representatives of the bidders. The Financial Bids of the Tenderers shall be opened on the same date or at a later date to be intimated to the Tenderers whose Technical Bids are found to be valid. Right to reject any or all Tenders, without assigning any reason thereof is reserved by Dibrugarh University.

Terms and Conditions of Supply:

1. All the manufacturers/ authorized dealers 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.s *etc*. to which they are supplying quoted items, should also be mentioned.

2. The last date and time for the submission of the bids **21.03.2022 up-to 11:00 A.M.**

3. Suppliers shall submit the following documents along with their quotations:

i) VAT/TIN/GST Registration No.
ii) Technical specifications offered by the Supplier.
iii) Technical compliance table
iv) Technical literature regarding the offered products including pictures/sketch/diagrams etc.

4. The rates should be mentioned in the **FINANCIAL BID** attached with the Tender Document as **ANNEXURE-II**. 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/she is signing the Tender.

5. The supplier shall submit the tender in 02 (two) envelopes. The first envelope (Technical Bid) shall contain all the following documents and be sealed.

- Filled in Format Technical Specifications/Literature
- Valid copy of Trade License,
- PAN Card,
- Registration certificate of GST,
- Dealership/Manufacturing/Small Scale Industry (SSI) Certificate (if any)
- The cost of tender of Rs. 1000/- (Rupees One thousand) only which is non-refundable, along with the Earnest Money of 2.5 % of the Tender value in the form of Demand Draft/Bankers Cheque in favour of the Registrar, Dibrugarh University, Assam payable at Dibrugarh University.

6. 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.

7. The Technical Documents shall be opened, at ***02:30 P.M. on 21.03.2022*** or on the next working day if the offices of the University remain closed due to any reason

8. Technical specifications of the instruments/equipments are given in **Annexure** to these papers (Part B).

9. The delivery and installation at Department of Pharmaceutical Sciences, Dibrugarh University should be completed within 1 month 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.

10. 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.

11. 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.

12. The bills of the suppliers shall be paid by the University after all the materials/articles/equipments have been received and installed, inspected as above.

13. Vendor must submit Compliance statement in tabular form comparing each specification of the quoted item with that given in the Tender Document **Part - B**.

14. The warranty period shall be for minimum one year or may be more as offered.

15. The tendering firm must provide proof of documents for executing similar works earlier.

16. 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.

17. Whether OEM or Authorized Distributor/ Dealer a letter or a valid certificate of authorization of manufacturer shall be enclosed.

18. Copy of product literature and catalogue, testing report, BEE rating, ISO etc.

19. The quantity as mentioned at Part-B (Specifications) may be increased or decreased at the time of placing Order as per requirement.

20. Tenderers 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 tenderer’s risk and may result in the rejection of the bid.

21. This tender document is not transferable.

Note:

(a) Tenderers are advised to read carefully the Terms and Conditions of supply before recording the rates in this Schedule.

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

(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 tenderers for the items covered by the tender.

ITEM No	DESCRIPTION OF GOODS WITH DETAILS OF SPECIFICATIONS	Unit Price	Taxes	Qty.	Total Amount
1					
2					
3					

Signature of the Tenderer
Seal of the Firm

Part - B

Specifications

Supply, installation and commissioning of Laboratory Equipments [(i) Fully Automatic Rotary Microtome/ Manual Rotary Microtome, (ii) Biochemistry Analyser/ Autoanalyzer (Semi-automatic) and (iii) Rheometer] at Department of Pharmaceutical Sciences, Dibrugarh University.

1. Manual ROTARY Microtome (Brand: Preferably LEICA or equivalent)

Required Features & Specifications- The Instrument must have/must be :

- Designed for effortless manual sectioning via a counter-balanced, exceptionally smooth-running hand wheel.
- Instrument with X/Y specimen orientation
- Fast exchange system for specimen clamps, both Universal Cassette Clamp & Standard Clamp
- Personalized User Selectable Coarse Feed wheel turn direction, either Clockwise or Anti-Clockwise to suit user's preference
- Retraction on/off function
- Two mechanical trim steps at 10 µm, 50 µm: (50 µm coarse, 10 µm fine)
- Blade holder for disposable blades—must be for both High & Low Profile with standard specimen clamp.
- Must contain 1 pack of 50 pcs. of Leica H.P. disposable blades
- The object head with +/-8° X/Y orientation equipped with a fast specimen clamp exchange system for improved workflow.
- Storage spaces on top of the instrument housing provide room for sectioning tools and accessories.
- The instrument feature a low-maintenance micrometer feed system with backlash
- Maintenance-free vertical cross-roller guides and horizontal specimen feed via precision cylinder guide system
- Distortion-resistant base plate ensures optimum overall stability.
- The vertical stroke of 59 mm
- Horizontal specimen travel range of 25 mm
- Allow to section specimens up to a size of 50 mm x40 mm x 40 mm.
- Ergonomically designed hand wheel grip.
- Hand wheel lockable in any position via brake lever attached to base plate
- Lockable hand wheel in upper position via hand wheel grip.
- *Location conditions*
  a) Operating temperature range 10°C to 35°C
  b) Temperature range during storage 5°C to 55°C
  c) Relative humidity max. 80%, non–condensing
  d) Storage humidity < 80%

Technical information

- Section thickness setting range 0.5–60 µm
- *Section thickness selection from 0.5–2 µm in 0.5 µm-steps*
  a) from 2–10 µm in 1 µm-steps
  b) from 10–20 µm in 2 µm-steps
  c) from 20–60 µm in 5 µm-steps
  d)Total horizontal specimen feed 25 mm
- Vertical specimen stroke 59 mm
- Specimen retraction ON/OFF
- Specimen orientation: Horizontal 8° & Vertical 8° with Rotation ± 90°
- *Dimensions and weight (should be lean & compact—must occupy lean work space in lab)*
- *Must include Sturdy Waste Tray*

- Should have more than 15-20 installations in East India, with 50% being in reputed Govt Institutions
- Must be Imported Model with both European CE & USFDA Certified
- Standard Warranty of 1 year must apply
- Should have proven & dedicated Service Support only for East India, having dedicated company office in East with a team of factory-trained Company service engineers (at least 3 persons) headquartered in Kolkata/East India, for prompt support across the region.

2. **Autoanalyzer/ Biochemistry analyzer (Semi-automatic), Preferred Brand: ARKEY –SPAN, ALLERA or Equivalent.**

Required Features & Specifications- The Instrument must have/must be :

- Light Source : 6V 10W, halogen lamp of more than 2000 hrs life time
- QC : Auto draw QC figure
- Spectrometer : Interference filter
- Reagent : Open Reagent System
- 7 in-built (Wavelength : 340 nm, 405 nm, 492nm, 510nm, 546nm, 578nm, 630nm) and one free position
- Display : 7" color LCD
- Band width : +/- 2nm
- Input : Touch Screen
- Stray Light :<0.5% (absorbance > 2.5)
- Printer : Internal Thermal Printer
- Absorbance Range : 0.2000 ~ 4.5000
- Report Content : Absorbance, concentration
- Absorbance Resolution : 0.0001
- Interface : RS-232 serial port, able to connect computer and external printer
- Precision :≤1.0%
- Working Condition : Temperature 10oC ~ 30oC, Relative Humidity 20% ~ 80%
- Carry Over :≤1.0%
- Voltage : AC 85-284V, auto adoption according to the input voltage
- Temperature : 25oC, 30oC, 37oC, (+/- 0.2oC), Peltier controlled
- Power :<100W
- Flow Cell : Permanent quartz flow cell minimum volume is 32µL
- Sampling System : Pressure auto releasing pumps ensure the accuracy of suction volume, disposable flow cell is selectable
- Test method : End point, Fixed time, Kinetic, Factor, Multi-Standards, Bichromatic
- Parameter Setting : Patients profile and calculated item
- Aspiration Volume : 200µL ~ 3000µL
- Reaction Curve : Real time display of reaction curve
- Memory : 80 parameters, 10000 test results
- 10 incubator positions at 37^{o}C +/-0.3

3. **Rheometer (Preferred Brand: Anton Paar or Equivalent)**

Required Features & Specifications- The Instrument must have/must be :

MAIN INSTRUMENT

- **Measuring Head Type:** Brushless Direct Current Motor with Digital Current Sources for Precision Dynamics.
- **Measurement Types:** Oscillation Mode and Rotational Mode
- **Maximum Torque Range:** 125 mNm or better
- **Minimum Torque Range:** 1 µNm or better
- **Torque Resolution:** 100 nNm or better

- **Minimum Angular Velocity:** 10^{-4} rad/s or better
- **Maximum Angular Velocity:** 150 rad/s or better
- **Strain Sensor:** High Resolution Optical encoder
- **Minimum Angular Frequency:** 10^{-4} rad/s or better
- **Maximum Angular Frequency:** 600 rad/s or better
- **Angular Deflection, Set value:** 1 to ∞ µrad or better
- **Angular Deflection, Resolution:** 600 nrad or better
- **Minimum Speed:** 10^{-3} RPM or better
- **Maximum Speed:** 1500 RPM or better
- **Step Rate, Time Constant:** 100 ms or better
- **Step Strain, Time Constant:** 100 ms or better
- **Gap Setting :** Fully automatic and force-limited Gap-setting function to for reproducible and exact Gap-setting procedure at any time.
- **Interfaces:** RS232, USB, Ethernet, analog interfaces
- System should have an illumination function to make clear view of the sample and measurement surface.
- System should have Electronic Trim lock for the measuring systems.
- System should have facility for Automatic Gap Control/ Setting.

MEASURING SYSTEMS

- **Pressure Cell:** System should be supplied with: (a) D-PP50 Stainless Steel Plate (50 mm) Measuring Geometry (b) D-PP25 Stainless Steel Plate (25 mm) Measuring Geometry (c) D-CP25 Stainless Steel Cone (25 mm) Measuring Geometry.
- **Temperature Controller:** Air cooled Peltier device for temperature control at - 5 Degree C to + 200 Degree C & Programming through Rheometer Software

RHEOLOGY SOFTWARE

- **Testing Protocols:** The Rheology Software should have basic test Templates for all type of Rheology variables to Obtain Data profiles like: (i) Viscometry as a function of time, temperature, Shear rate, Shear Stress, Yield Stress Measurements and Shear Rate Sweep, (ii) Complex viscosity as a function of Time, Temperature, Frequency, Strain and Stress, (iii) Shear Stress as a function of Shear Strain to identify the LVER (Linear Visco Elastic Region) of the sample, (iv) Elastic (G'), Loss (G''), Complex Modulus (G*), Tan δ as a function of Time, Temperature, Frequency, Strain and Stress in Shear mode, (v) Elastic (G'), Loss (G''), Complex Modulus (G*), Tan δ as a function of Time, Temperature, Frequency, Strain and Stress in Linear mode, (vi) Creep Compliance as a function of time at different temperature in single or multiple creep zones
- **Air Compressor:** Should be supplied with a compatible 1 HP Compressor with Drain valve.
- **Desktop Computer:** Core i5 Processor, 8 GB RAM, 500 GB HDD, 15.6'' LED Display

Signature: ……..... Date.....

Name :…….....

Address :…….....

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Mobile No…….....