

OFFICE OF THE REGISTRAR : BODOLAND UNIVERSITY

Debargaon, P.O. Rangalikhata
Kokrajhar – 783370, BTR, Assam.
bodolanduniv@gmail.com



Tel./Fax No. 03661-277183 (O)
Tel. No.
Mobile No.

Ref. No. BU/Acctts/DST-FIST/2020/11/158

Date – 08/02/2021

EXPRESSION OF INTEREST

Expression of interest is invited from the reputed Manufacturer/Firm/Supplier for Supply, installation and commissioning of Laboratory Equipments at Department of Biotechnology, under DST-FIST project, at Bodoland University

Detailed specification and any other special features along with company manuals, price list should be submitted with their application of EOI. This is an expression of interest for above job and invitation of financial bid. Total approved amount is Rs. 40,00,000.00 including GST and all charges.

The bidders are advised to visit the website www.bodolanduniversity.ac.in for download the detail forms.

Application with complete details and relevant documents along with a Demand Draft for an amount of Rs. 1000/- as EOI fee (non-refundable) in the form of bank draft in favour of the Registrar, B.U, Kokrajhar payable at SBI, North Kokrajhar Branch may be submitted to Registrar, Bodoland University, Deborgoan, Distt. Kokrajhar (BTC.) Pin-783370 on or before 12.00 noon on 18/02/2021. The EIO would be opened on same date at 12.30 pm.

The university authority reserves the right to reject or accept any one or all EOI/proposal 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 for information.
3. Prof. Jatin Sarmah, PI for information.
4. The System Administrator for upload in university website.
5. The Assistant Engineer for information.
6. The Member Secretary, Tender Committee for information.

Registrar

1. Details specification:-

Name of Item	Technical Specification
Micro Electronic Balance	<p>Capacity : 220g Minimum Display: 0.0001g (0.1mg) Repeatability (Standard Deviation): $\leq 0.1\text{mg}$ Linearity: $\pm 0.2\text{mg}$ Stabilisation Time*1: Approx. 3.0 seconds Operating Temperature and: 5-40°C 20-85%*2 Humidity Limits Temperature Coefficient for: $\pm 2\text{ ppm/ }^\circ\text{C}$ Sensitivity (10-30°C) Pan Size (mm) approx.: $\phi 91$ Main Body Dimensions (mm) approx. : 213(W) 356(D) 338(H) Main Body Weight (kg) approx. : 6.2 Power Requirement : 12V, 1A Internal Calibration: yes With 1 KVA online UPS 30 Min. Power Back Up</p>
PCR	<p><u>96 Well Thermal Cycler (PCR)</u> Block format : 96-well, 0.2 mL 3-zone VeriFlex Block Maximum block ramp rate: 3.5°C/sec Maximum sample ramp rate: 2.7°C/sec Temperature accuracy: $\pm 0.25^\circ\text{C}$ (35–99.9°C) Temperature range : 0–100.0°C Temperature uniformity : $< 0.50\text{C}$ (30 Sec after reaching 950C) Temperature calibration : Calibrated to standards traceable to the National Institute of Standards and Technology Dimensions (H x W x D): 20 x 19 x 39 cm (7.9 x 7.5 x 15.4 in.) Weight: 5.9 kg (13.0 lb) PCR volume range: 10–100 μL Instrument memory: 2,000 MB onboard memory (capacity for $>1,000$ protocols); USB port for additional external storage Display interface: 5-inch color TFT LCD Power: 100–240 V, 50–60 Hz, max. 500 W VeriFlex Block: 3 temperature zones, 20°C range (10°C zone-to-zone) Data connectivity: Cloud or mobile via Ethernet or Wi-Fi Along with 1 KVA online UPS 30 Min. Power Back Up</p> <p><u>Horizontal Electrophoresis Unit and Power Pack</u> Midi Sub System Principal Material : Acrylic Inner tank dimension : 215 x 141 x 55 mm No. of trays : 130 x 130 mm - 1 No. 130 x 65 mm - 2 Nos. 65 x 60 mm - 4 Nos. No. of combs : 13 Well Analytical Acrylic Comb 1.5 mm thick x 1 No. 8 Well Analytical Acrylic Comb 1.5 mm thick x 4 Nos. 3 Well Preparative Acrylic Comb 3 mm thick x 1 No.</p> <p><u>Electrophoresis Power Supply</u> EPS 500 Model ;0-500 V; 0-500 mA; Variable with timer Constant Current ; Constant, Voltage ; Digital display</p>

<p>UV-Vis-Spectrophotometer</p>	<p>Microprocessor based UV-VIS Spectrophotometer with high resolution touch screen display, for Operation on 220V / 50Hz.</p> <p>Stand-alone operation as well as complete control through PC with PC software supplied as standard</p> <p>True double beam optics with aberration corrected concave blazed holographic grating in Czerny – Turner mounting for high energy throughput and high quality monochromatic light</p> <p>Wide wavelength range of 1,100 nm to 190 nm</p> <p>High resolution 1 nm spectral bandwidth over entire wavelength range</p> <p>Wavelength setting and display in steps of 0.1nm</p> <p>Wavelength accuracy of + 0.1nm for D 2 spectral line</p> <p>Wavelength repeatability of + 0.1nm</p> <p>Wavelength Slew rate: approx. 29,000 nm/min</p> <p>Variable wavelength scanning speed: $\geq 3,000$ nm/min to 2 nm/min</p> <p>29,000 nm/min when survey scanning</p> <p>Ultra low stray light of $\leq 0.02\%$T at 220nm with NaI filter</p> <p>Wide Photometric range of -4 to +4 Abs and 0 to 400 %T</p> <p>High Photometric Accuracy of + 0.002 Abs at 0.5 Abs</p> <p>High Photometric Repeatability of Less than ± 0.0002 Abs at 0.5 Abs</p> <p>Baseline stability: ≤ 0.0003 Abs/Hr (700 nm, one hour after light source turned ON)</p> <p>Baseline flatness: $\leq \pm 0.0006$ Abs (1100 to 190 nm, one hour after light source turned ON)</p> <p>Ultra low Photometric noise of ≤ 0.00005 Abs (700 nm)</p> <p>Dual source – high intensity Tungsten-Halogen and Deuterium lamp with automatic changeover</p> <p>High sensitivity matched pair Silicon Photodiode detector</p> <p>4 USB ports or more for high speed PC and printer connectivity, data storage and transfer through USB pen drive</p> <p>Guaranteed compliance with all Pharmacopoeia requirements</p> <p>Built in validation program, diagnostic and security functions</p> <p>The instrument should provide network access via wireless connectivity. Data can be transferred to a PC via a network</p> <p>The instrument should have provision for Bar code reader and key board entry function:</p> <p>sample names and numerical values can be entered by a bar-code reader or from the keyboard</p> <p>The instrument should have Sleep mode and wake up function: Analysis can start the instant the user arrives at the laboratory. The instrument should require no time to warm up.</p> <p>All operational modes as standard – Photometric; Spectrum; Quantitation; Kinetics, Time Scan, DNA and Protein Quantitation in stand alone and PC mode. Additionally Multi-Component measurement available in stand-alone mode.</p> <p>Large sample compartment compatible with wide range of accessories.</p> <p>Must supply the below accessories:</p> <p>one pair of 10mm path length Quartz Cuvettes of 3.5 ml volume</p> <p>Branded i3 PC with Original OS</p> <p>Constant temperature cell holder- 1 no</p> <p>This cell holder must control the cell temperature by circulating constant-temperature water. The operating temperature range is 6 to 90 °C</p> <p>Re- circulating chiller- 1 no</p> <p>With 1 KVA online UPS 30 Min. Power backup</p>
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Cooling Centrifuge	<ul style="list-style-type: none"> * Maximum Rotational Speed : 15000 rpm * Relative Centrifugal Force (rcf): 21,130 x g * Compact 24-place centrifuge - 24 x 1.5/2.0 ml micro centrifuge tubes * Rotor and lids are autoclavable * Temperature Setting range: -10°C to 40°C * Fast Temp function for rapid cooling of the rotor and rotor chamber (from Room Temperature to 4°C within in 10 minutes) * Unique "click-lock" rotor lid for fast and reliable lid locking * Continuous cooling following centrifugation process * Short-spin and Soft ramp function * Acceleration time to max. rpm - 13 s * Braking time from max. rpm - 13 s * ECO shut-off of compressor after 8 hours of non-usage - reducing energy consumption * Noise level with rotor: < 48 dB(A) * Power supply: 230V/50-60Hz * Dimensions (WxDxH): 29 x 48 x 26 cm * Weight: 21 Kg * Centrifuge have reddot design award with CE and IVD conformity * Having built in condensation drain that eliminate water accumulation in rotor chamber and prevent corrosion * Maintain constant 4°C temperature at maximum speed * Should be supplied with Rotor FA-45-24-11 for 24 X 1.5/2.0 ml With Adapter 0.2 mL PCR tubes, set of 6: 04 Nos. <p>With 1 KVA online UPS 30Min Power Backup</p>
Rotary Vacuum Evaporator	<p><u>Rotary Evaporator</u> EVATOR Advantages: Spark-less drive unit AC motor with assured speed regulation. Flask sizes from 100 to 1000 ml. Digital Temperature Controller for Water Bath. PTFE / glass sealing mechanism. Smooth, adjustable, maintenance free and user friendly single lever manual lift. Vertical Glass Set with 1000 ml B29 Evaporating Flask & 1000 ml S35 Receiving Flask, B29 plastic C Clip & S35 Ball Joint Clip. Flask ejector for easy removal of evaporating flask. <u>Vacuum Pump - PTFE coated diaphragm - 35 mbar</u> PTFE coated diaphragm pump, manufactured with German technology Supplied with solvent trap <u>Chilled Water Circulator – Manual</u> Cooling with Ice Reservoir capacity 20 liters Pumping @9 LPM at zero head Power Supply 230 VAC</p>
Incubator Shaker	<p><u>INCUBATOR SHAKER (Orbital Shaker Heating Only)</u> With Variable speed and Digital Temperature Controller Inner Stainless Steel & Outer M.S.with Acrylic Hood Temperature range ambient to 70°C. Specially designed to hold : (i)To Hold 9 flasks of 250 ml OR Mix (Size of platform 450 x 450 mm)</p>
Vortex Mixer	<p>Speed: 100- 3200rpm. Operation : Touch/Continuous Working condition: 4 to 60°C ambient. Body : MS with powder coated. Input Voltage : 230V, 50Hz. A.C. Supply With 1 KVA online UPS 30Min Power Backup</p>

Ice Maker	<p>Contemporary elegant design available in ice production capacities: 28kg per 24/hrs</p> <p>Insulated ice storage bin and door minimize air condensation and water formation on equipment surfaces.</p> <p>Electromechanical controls maximize reliability and ease of repair during the entire life span of the equipment.</p> <p>Dimension (WxDxH): 18" x 23" x 27"</p> <p>Refrigerant: R-134a</p> <p>Bin Storage: 15kgs</p> <p>Water Consumption: 4litrs/hr</p> <p>Electric Consumption: 8 kwh/24hrs</p> <p>Net weight: 37 kg.</p> <p>With suitable Voltage Stabilizer</p>
Dietary Fibre Extraction and Digestion Unit	<p>Dietary fibre estimation system for quantitative determination of total, soluble and insoluble dietary fibre content with rapid filtration.</p> <p>System consists of 4 position facility for stirring in SS water tank with reciprocal motion with thermostatic heating bath.</p> <p>Should be supplied with 4 Nos. enzymatic digestion vessel and 4 Nos. sintered silica glass crucibles.</p> <p>Microprocessor based Digital PID Temperature controller with auto tuning facility</p> <p>Inbuilt digital timer 0-99 minutes, Settable in hours, mins & secs</p> <p>Temperature Range : Ambient to 100°C</p> <p>Temperature Setting: Increments of 1°C</p> <p>Strokes: 0-120 strokes / minute continuously variable</p> <p>Drive : Heavy duty DC motor designed for uniform noiseless motion</p> <p>Speed Setting : Rotary Potentiometric knob for continuously variable setting</p> <p>Speed Indication : Digital LED Display</p> <p>Heater : Immersion heater thermostatically controlled</p> <p>Over temperature protection, Auto error Indication, Sensor break protection, Heater cut off feature with buzzer indication and alarm, Acoustic signals with visual display.</p> <p>4 Place Filtration Unit</p> <p>Vacuum Source: Electrical Vacuum suction pump for filtration</p> <p>Fixed filtration glass chamber in the filtration module (4 Nos.).</p> <p>Sample loading : Individual sample loading with independent mechanical control.</p> <p>Control valves : Individual control valves for vacuum and filtration.</p> <p>Uniquely designed expansion vessel to feed samples after enzymatic digestion</p> <p>Uniquely designed residue collection vessel</p> <p>Counter pressure option with reverse air stream</p> <p>Includes Essential Accessories like Spray Bottle, Crucible Rubber, Extractor Rubber, Teflon Bush & Nylon Bush.</p> <p>Safety features with CE to fulfill GLP Norms</p> <p>ISO 9001:2015 Certified & CE Certified.</p> <p>Electrical Reqt: 230V, 50 Hz. AC Mains.</p>

Financial Bid:-

Sl. No.	Specification	Qty	Rate (including GST)	Amount in Rs.
1	Micro Electronic Balance			
2	PCR			
3	UV-Vis-Spectrophotometer			
4	Cooling Centrifuge			
5	Rotary Vacuum Evaporator			
6	Incubator Shaker			
7	Vortex Mixer			
8	Ice Maker			
9	Dietary Fibre Extraction and Digestion Unit			
		Total Rs.		

Signature of supplier

Registrar

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EXPRESSION OF INTEREST RESPONSE FORM, FOR SUPPLY OF LABORATORY EQUIPMENTS

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: _____ 5. E-MAIL ADDRESS: _____

6. CONTACT NAME AND TITLE:

7. PARENT COMPANY (Full legal name):

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

9. NATURE OF BUSINESS (Tick one box only):

Manufacturer: Trader: Authorized Agent: Consulting Company:

Other (specify): _____

10. TYPE OF BUSINESS:

Corporate/Limited: Partnership: Government Agency: University:

Other (specify): _____

11. YEAR ESTABLISHED:

12. NUMBER OF FULL-TIME EMPLOYEES:

13. TRADE LICENCE NUMBER/STATE WHERE REGISTERED: _____

EVALUATION CRITERIA

- 1. If the Supplier/Firm could not meet up the standard of the work or not up to the satisfaction of the authority, 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.**
2. Bidders should be ready to do any corrections and technical consultancy services at free of cost after the completion of the work.
3. Upon evaluation of Commercial Bids and making comparative statement after taking into account all the relevant aspect of the Tender condition, BU shall declare lowest quoted Bidder as L1 Bidder and next lowest quoted Bidder as L2 Bidder. BU will notify L1 Bidder as successful Bidder. The successful Bidder will be intimated in writing by registered letter, that its Bid has been accepted. The successful Bidder will do the necessary work after receiving the order.
4. The University Authority has right to order the work even if there is only single technically qualified bidder provided the financial offer of such firm is within the limit of University's fund sanction and all the equipment offered are up to the mark.
5. 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.
6. If Bodoland University at any stage, based on an objective examination and scrutiny set out through a due process considers, that the **firm** has failed to make progress in the implementation of the work schedule or is otherwise incapable of completing the project work as stipulated or has failed to maintain the quality of work to the satisfaction of Bodoland university, the Bodoland University may revoke this agreement wholly or partially. In that event, total amount released **till date time to firm** would be returned to Bodoland University within a **stipulated period of 15 days from the date of revoking of the agreement** and that would have no claim on the balance amount or for the work so far completed.
7. **The firm** shall not unilaterally transfer or assign or sublet any part of this agreement wholly or partially or otherwise the conduct of said proposal to any other person, firm or company or any other institution/ organization. However, **firm** can take the help/assistance from other organization well versed with survey work only if prior written approval of the Bodoland University is obtained. Decision of the Bodoland University will be final.
8. No revisions, modifications or change to this agreement shall be binding until the same is acknowledged by Bodoland University and agreed to in writing.

9. The firm hold Bodoland University harmless from any liability claim for loss or damaged of property or injury or death of persons or any cause of action of whatsoever nature that may arise out of performance of this agreement.

10. In event of any disputes arising with regard to interpretation of the articles/terms of this agreement he matter shall be referred to sole arbitrator, approved by both parties and who shall be appointed by the Bodoland University. The decision of the Arbitrator on the points referred to him shall be binding on both the parties to this agreement, subject to the provisions of the Arbitration and conciliation Act of 1966.

11. 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.

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:

1. The companies will be evaluated according to the following procedure:

CRITERIA: Pass/Fail	YES	No
Registration information: Certified copy of the original Certificate of Incorporation and Certified copies of the Annual Returns of the company. GST registration certificate, PAN card, bank balance sheet etc.		
Company Profile: Summary indicating the company details		
Manufacturer's authorization: (for representative companies)		
Relevant Experience: Experience of the company working with National and Government Institutions, Large public or private companies		

- When a firm is shortlisted it does not guarantee that a firm will get order.
- Firms will remain in the register for a minimum period of one year.

<p>CERTIFICATION:</p> <p>I, the undersigned, warrant that the information provided in this form is correct and, in the event of changes, details will be provided as soon as possible:</p> <p>Name _____ Functional</p> <p>Title _____</p>
