



तेजपुर विश्वविद्यालय / TEZPUR UNIVERSITY

(संसद के अधिनियम द्वारा स्थापित केंद्रीय विश्वविद्यालय)

(A Central University established by an Act of Parliament)

कुल सचिव का कार्यालय/ OFFICE OF THE REGISTRAR

नपाम :: तेजपुर - 784028 :: असम

NAPAAM :: TEZPUR - 784028 :: ASSAM

### SHORT QUOTATION NOTICE

TU/11-24/Pur/Qtn/2017-18/1697-A. dated: 17.07.2017.

Sealed quotations are invited from reputed manufacturers/authorized dealers/vendors for supply, installation & commissioning etc. of following items required for the ICAR Sponsored Research Project of Dr. S.S. Bhattacharyya, Department of Environmental Science, Tezpur University.

List of equipment and specifications:

Sl. No	Equipment	Specifications
1	<b>Automatic Nitrogen/Protein Estimation System (Distillation and Digestion unit)</b>	<p><b>The instrument shall be inbuilt Microprocessor / computer controlled based and programmable.</b></p> <p><b>The specifications for distillation unit are as follows:</b></p> <ul style="list-style-type: none"><li>• Distillation procedure including automatic programmable alkali addition and steam addition.</li><li>• Bellow pumps for accurate dispensing of reagents</li><li>• Process over indication with alarm</li><li>• The equipment must possess automatic over temperature protection, excess pressure release safety valve, water level monitoring safety feature</li><li>• High grade stainless steel non corrosive steam generator for steam distillation</li><li>• The equipment should possess online external titration connectivity for future up gradation.</li><li>• Heat resistant Poly Propylene tube removing device for long life time.</li><li>• The equipment must poses high safety in terms of its doors, placement of tubes, distillate temperature etc.</li><li>• Distillation capacity should be 15-20 samples/hr.</li></ul> <p><b>The specifications for digestion unit are as follows :</b></p> <ul style="list-style-type: none"><li>• Eight place graphical macro block auto sequencing automatic PC compatible digestion system with touch screen display</li><li>• Power consumption – 1800 W</li><li>• Temperature controller- Fuzzy logic Micro Processor based PID controller.</li><li>• Selectable Programs: Auto sequencing features with 70 intelligent memory programs.</li><li>• 12 desirable sequence steps of time and temperature domain for each programme.</li><li>• Direct USB port for PC/Laptop connectivity</li><li>• Display: 4.3" TFT graphic touch screen display.</li><li>• Auto over temperature protection</li><li>• Digestion time: 30-60 minutes.</li></ul>



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		<ul style="list-style-type: none"><li>Digital timer: Range 0-99.59</li></ul>
2	<b>Table Top High Speed Refrigerated Centrifuge</b>	<p>Centrifuge should have cooling facility with temperature control : - 5°C to 30°C</p> <p>Maximum speed should have : 200 to 14,000 rpm and Maximum rcf : 15, 000 x g</p> <p>Maximum Capacity should have above : 24 x 1.5/2.0 mL. Additional rotor capacity should have 12 x15 mL.</p> <p>Timer should have: 0.5 to 99 minutes or continuous</p> <p>Power Supply : 230V, 50 Hz</p> <p>Dimensions (W x D x H) should have : 10.9 x 17.75 x 9.75 in/27.7 cm x 45 x24.75cm</p> <p>Should have low access height (29 cm) for easy loading and unloading of samples</p> <p>Weight should have : 44 lb/20 kg</p> <p>Acceleration time should have 14s</p> <p>Noise level should have : &lt;54 dB(A)</p> <p>Power Requirement should have: max. 1,050 W</p> <p>Braking Time should have : 15 s</p> <p>The equipment Should have ECO shut of facility to engage after 8 hours of non use to reduce energy consumption and extend compressor life</p> <p>Rotors should be made of recyclable aluminium,100% recyclable packaging material.</p> <p>Should have brushes and induction motors to provide maintenance free operation, eliminating carbon particle emission for green initiative.</p> <p>Centrifuge should have the built in condensation drain to eliminate water accumulation and prevent corrosion</p>
3	<b>Rotary Vacuum Evaporator</b>	<ul style="list-style-type: none"><li>Maximum capacity should be 3 L</li><li>The equipment should have motorized lift with by pass.</li><li>Equipment should have PTFE coated seals, PTFE feed tube, and PID temperature controller.</li><li>Batch range should be upto 180°C &amp; capacity upto 3L per shaped.</li><li>Digital RPM control with AC motor speed 30-27 RPM</li></ul>

### GENERAL TERMS & CONDITIONS:

1. No separate tender paper will be issued from the office; one should only download the specifications/List from the website.
2. **The rates should be preferably quoted in Indian Rupee and FOR Tezpur University, Napaam basis. Charges for clearing and transportation should be incurred by the supplier.**
3. *Quotations should be accompanied by i) An EMD (in the form of Demand Draft/Call Deposit/TDR) of ₹. 5000/- (Rupees Five Thousand) only drawn/pledged in favor of Registrar, Tezpur University, payable at Tezpur. **No request for consideration of earlier deposited EMD will be considered.** ii) A*



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*non refundable application (quotation) fee of ₹.1000.00 (Rupees One Thousand) only have to be paid only by Demand Draft drawn in favour of Registrar, Tezpur University payable at Tezpur.*

4. The rates should be exclusive of taxes and applicable tax % should be clearly indicated.
5. Applicable levies, surcharge and discounts should be clearly indicated itemwise.
6. Quoted rates should be valid at least for a period of 01 year.
7. The rates should be quoted along with supporting documents of specifications and technical features and list of users.
8. 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.
9. All the quotations must be accompanied with supporting documents and / or literature.
10. Demonstration may be sought from the vendors for authentication of quoted specification.
11. Details of availability of after sales support will have to be furnished. After sales support directly from manufacturer and from Assam (Guwahati / Tezpur) will be preferred.
12. The University is exempted from paying Custom and Excise duty.
13. Proprietary items should be quoted with sole Manufacturer/Distributorship certificate.
14. Warranty/Gurantee period should be specifically mentioned in the quotation.
15. No Advance payment will be made. However, for foreign supplier, advance payment will be made either by FDD/Wire Transfer/LC. In such cases 10% Performance Bank Guarantee should be submitted before issuing FDD/Wire Transfer/LC, covering the warranty period.
16. Performance Bank Guarantee also has to be submitted for Major equipments of Indian origin, covering the warranty period.
17. Items of Foreign origin should have Insurance up to installation on site.
18. The University reserves the right to accept or reject any or all the quotations without assigning any reason.
19. Quoted price should be inclusive of essential accessories and should be CIF Tezpur University, Tezpur
20. Applications for release of EMD should be submitted to the Registrar/ Joint Registrar.
21. Apart from the above terms and conditions the University has the right to include any other terms and conditions as and when felt necessary.
22. **Quotation should be submitted in the DROP BOX placed in the reception of the Administrative Building of the University within 21 days from the date of publication of this notice. If posted/courierred, should reach within 21 days addressed to "The Joint Registrar, Tezpur University". The Quotation Notice No. and date should be clearly superscribed in the the envelope/packet containing the quotation.**

Sd/- Joint Registrar  
Tezpur University