



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/2017-18/2122-A. dated: 14.08.2017.

Sealed quotations are invited from reputed manufacturers/authorized dealers/vendors for supply, installation & commissioning etc. of following items required for the DST Sponsored Research Project of Dr. Utpal Bora, Department of Chemical Sciences, Tezpur University.

Item with Specifications:

Sl. No.	Item	Specifications
1	PERSONAL ORGANIC SYNTHESIZER/ PROCESS STATION	<p>(i) A parallel type synthesizer that is useful for the applied study of 5 or more liquid phase reactions at different temperature (-23 to 150°C (5x independent control) or better</p> <p>(ii) Synthesis scale equivalent: 0.5-50 mL or better (variable scale)</p> <p>(iii) Stirring system: Ferromagnetic stirrer</p> <p>(iv) Rotation speed range: 100-1800 rpm or better</p> <p>(v) Setting stirring display: Volume setting, digital display (20 -2000 rpm)</p> <p>(vi) Gas flushing: Vacuuming + Infusing Inactive gas</p> <p>(vii) Individual Temp. Control: Temp. difference between to heating block is up to 100 °C</p> <p>(viii) Reflux: There should be provision for refluxing (5 independent refluxing provision for individual reaction)</p> <p>(ix) Adding sample: Pipetting, Syringe, dripping funnel (with interchangeable joint). (minimum 10 numbers each)</p> <p>(x) Observing reaction: Through the glass on aluminum block</p> <p>(xi) Safety features: adequate safety feature is required</p> <p>(xii) Dimensions (mm): 465Wx 335Dx 390H (Top ceiling) 800H(pole)</p> <p>(xiii) Voltage: 220V</p> <p>(xiv) Accuracy of Temp. control: ± 0.5</p> <p>The System should be supplied complete with</p> <p>Reactor tube with side neck - 10 pcs</p> <p>Dimroth condenser - 10 pcs</p> <p>Screw thread (10 pcs - 1set</p> <p>Screw cap with hole (10 pcs)- 1set</p> <p>Hose connection, Straight (10 pcs)-1set</p> <p>Drip-proof cover (dia30)- 5pcs</p> <p>Suba seal- 1set</p> <p>Septum (natural rubber, 10 pcs)- 1set</p> <p>Stirrer bar (Egg shape, dia 10x20H) for dia30 & 34, 5pcs - 2 set</p> <p>Keck clip metal (10pcs)- 1set</p> <p>Test tube adaptor (dia30)- 5pcs</p> <p>Pressure resistant vessel (dia30) - 1 no.</p> <p>Pressure gauge with valve - 1 no.</p>



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2	VERTICAL ROTARY VACUUM EVAPORATOR, VACUUM PUMP AND CHILLER	<p>ROTARY VACUUM EVAPORATOR WITH MOTORISED AUTO JACK UP FUNCTION DURING POWER FAILURE (with digital water bath)</p> <ul style="list-style-type: none">• Driving Unit: Motorized driving unit• Condenser: Vertical Double spiral glass coil• Jack up Function: Electronic quick action jack and automatic lifting of the flasks during a power failure• Rotation Speed: up to 280 rpm or better with microprocessor control.• Display: Digital display of rotation speed and heating bath.• Evaporation capacity: 23ml/min (water evaporation) or better• Sample Flask: 1L, Pear Style, Ts 29/38• Receiving flask: 1L, round style with ball joint.• Evaporating flask from 50-4000 ml can be used on the same joint adapter without additional connections.• 1 liter Evaporating Flask and Receiving Flasks should be provided in standard scope of supply.• Vacuum seal: PTFE seal (seal should also be covered in standard warranty period of three year)• Liquid Contact parts: Glass & PTFE• Includes with Digital Water Bath<ul style="list-style-type: none">• Temperature control range: Ambient to 90° C or higher.• Accuracy: $\pm 1^{\circ}\text{C}$• Temp controller: Microprocessor based PID Control• Safety features: Self-diagonised, heater fault, sensor fault, upper/lower temperature alarm, low water cut out, over heat protector, mains overload/leakage breaker, etc. <p>B. VACUUM PUMP:</p> <ul style="list-style-type: none">• Two stage oil free diaphragm pump made from chemically resistant material.• Suction capacity in m³ /hour: 2.0 m³/h or better.• Vacuum pump should have ultimate vacuum of ~30 mm Hg or better. <p style="text-align: center;">Or</p> <p>B. POWERFUL WATER ASPIRATOR</p> <ul style="list-style-type: none">• Displacement method: Pressured water jets• Displacement: 15L/min. x 2 (at water temperature 6^oC) or better• Ultimate vacuum: Max. Vacuum ~30 mm of mercury (at 30^oC)• Safety function: Check valve, thermal protection• Aspirator element: Metal aspirator x 2• Water bath capacity: ~10L <p>C. CHILLER</p> <ul style="list-style-type: none">• Temperature range: 0^oC to ambient• Precise temperature control of $\pm 0.1^{\circ}\text{C}$• Fluid level indicator.• Low flow shut off and high/low temperature alarms.• Digital display <p>Note: All parts must conform to the Supply Voltage (V/Hz) of 230/50.</p>
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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 non-refundable application (quotation) fee of ₹.1000.00 (Rupees One Thousand) only must 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/Guarantee 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/couriered, should reach within 21 days addressed to "The Joint Registrar, Tezpur University". The Quotation Notice No. and date should be clearly superscribed in the envelope/packet containing the quotation.**

Sd/- Joint Registrar
Tezpur University