



तेजपुर विश्वविद्यालय / TEZPUR UNIVERSITY

(केंद्रीय विश्वविद्यालय / A Central University)

- कुलाध्यक्ष का सर्वोत्तम विश्वविद्यालय पुरस्कार, 2016 और एनआईआरएफ भारत रैंकिंग 2016: नं. 05
- Visitor's Best University Award, 2016 and NIRF India Ranking 2016: No. 05

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SHORT QUOTATION NOTICE

TU/11-24/Pur/Qtn/2017-18/106-A dated:-11.04.2017

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

List of equipment and specifications:

Sl. No.	Name of equipment	Specifications
1.	Unit type Lyophilizer/freeze dryer with Vaccum Pump	<ul style="list-style-type: none">• Cold trap temperature: -45°C• Ice holding capacity: 1L/one batch• Temperature setting and display: Sheet key input, digital• Safety features: Leakage/over current breaker. Refrigeration system protection circuit. Fuse for service outlet. Control substrate self diagnosis. Stop timer function.• Vaccum leak function: Automated leak vaccum.• Trap defrost method: Hot gas• Additional function: Vaccum pump automatic operating function, vaccum and trap temperature monitor function, Power failure self return function.• Refrigerator power and Refrigerant: 450W, HFC 507• Vaccum pump: Option (Pumping seed 50L/min over)• Vaccum gauge: Pirani vaccum Guage (Digital display) 0.4 and 533Pa• Trap dimension(mm) and material: 200*175H, SUS304• Recorder output: Trap temperature- 1°C/mV. Vaccum: 1Pa/mV• Service outlet: For vaccum pump Max.6A. For dry chamber Max.2A• Ambient temperature: 5-35°C• Overall dimesion: 450W*420D*440H• Weight: 38 kg• Power source: 220VAC, 50Hz• Ultimate pressure : 5x10 Torr• Pumping speed : 50L/min• Motor output : 200W• Oil capacity : 550 to 700ml• Safety feature : Thermal protector, check valve, Oil filter• Power source : 220VAC, 50Hz
2.	Table top Centrifuge including accessories	<ul style="list-style-type: none">• High Speed centrifuge with max speed 100 –18000 rpm & max capacity should be 500ml.• Motor should be maintenance-free, brush-less motor.• Maximum RCF should be 24088 x g.• 99 operating programs should be available.• Time should be 0-99min.• Protection systems: it is not possible to open the lid during



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		<p>spinning & not possible to start when the lid is open</p> <ul style="list-style-type: none">• It should have facility for rotor identification, imbalance detection and automatic lid opening.• It should have a possibility of changing parameters during centrifuging.• Two modes of time calculation: from start key pressing or from reaching preselected speed should be available.• The system should have the capacity of angle rotor 4 X 100 ml tubes with 30° with 3100 X g and should be able to accommodate 18, 2 ml spin filter tubes.• Two modes of time calculation: from start key pressing or from reaching preselected speed should be available.• Monitoring and saving of working parameters through computer or directly by thermal printer with serial port.• Short spinning function should be provided.• Dimensions should not be more than 270 X 355 X 435 mm (HWD).• Weight excluding accessories should be 15 kg.• The product should be conforming to the EN-61010-1 & EN-61010-2-020 international safety norms.• Speed range: 100÷18 000 RPM.• Power: 190W• 10 acceleration/deceleration curves• Speed (in RPM) and RCF adjustment• Centrifugation time adjustment• Two modes of time calculation:• Possibility of changing of parameters during centrifuging• Rotor identification• Automatic lid opening• Effective ventilation system• Wide range of rotors and additional equipment• Rotor chamber made from stainless steel• Safety precaution: Unbalance sensor, Lid locking during rotor running, Start blocking at opened lid, Emergency lid lock release, Standards/regulations.• Angle rotor 12 x 2/1.5ml. with Hermetically Sealed Lid (angle 45°) (max RPM: 18 000).• Angle rotor 8 x 50ml for Falcon® tubes. Complete with Buckets 13276 (angle 30° 5000rpm).• Round carrier for 5ml tube (O 28.5/14x92mm) (Set of 5 Pcs.). <p>Round carrier for 15ml Falcon® tube (O 17x120mm) (Set of 8 Pcs.)</p>
3.	Homogenizer including Accessories	<ul style="list-style-type: none">• Processing Range: 25 µL to 6 mL• Power Rating: 100-230 VAC/50-60 Hz• Dimensions: 8.5" W x 11.5" D x 10" H• Weight: 16.5 lbs. (7.48 kg)• Run Time: 1 - 5 mins.• Programs: 1



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		<ul style="list-style-type: none">• Cycles: 1• Performance Range: 30 g - 150 g• Broad performance range — gentle mixing to high force homogenization• Small footprint : requires minimal bench space• Holds: 4 x 0.5 mL / 1.5 mL / 2 mL or 1 x 7 mL tubes• Homogenizing up to 4 samples in seconds Simultaneously processing: 4 x 0.5 mL, 4 x 1.5 mL, 4 x 2 mL or 1 x 7 mL samples• BOD compatible Digital Shaker without platform with Clamp for 250 ml Erlenmeyer flask and capacity of 18 can take min. 2 and max. 9
4.	Fluorescence Spectrophotometer with compatible PC, printer, and UPS	<ul style="list-style-type: none">• Principle: Computer-controlled ratioing fluorescence spectrometer that can measure fluorescence, phosphorescence, chemiluminescence, bioluminescence should be quoted. Instruments should have variable pulse rate, delay and gate times.• Source: Xenon flash lamp; pulsed at a lined frequency (50 or 60 Hz) with pulse width at half peak height <10 μs or better should be quoted. Delay (td) and gate time (tg) should be varied to measure phosphorescence. The source should be turned off to measure chemiluminescence/ bioluminescence.• Monochromator: Czemy- Tumer or equivalent• Grating: Excitation: 1200 lines/mm, blazed at 370nm<ul style="list-style-type: none">○ Emission: 1200 lines/mm, blazed at 440nm• Detector: High performance PMT• Wavelength range: 190-110nm• Wavelength accuracy: $\pm 1-1.5$nm• Sensitivity: (Raman band of water):<ul style="list-style-type: none">>500:1 RMS, 500nm excitation>750:1 RMS, 350nm excitation• Resolution: 1.5nm• Filters: Excitation: computer selectable including 2 bandpass, 2 cut-off, a shutter and open beam position.• Emission: computer selectable including 1 bandpass, 4 cut-off, a shutter, a 3% attenuator and open beam position.• Wavelength scan speed: 0.010-24,000nm.• Max scan rate: 24,000nm/min• Data interval: 0.15-30 nm• A software-controlled filter wheel in the emission monochromator with 290, 350, 390, 430 and 515-nm cutoff filters, 1% T attenuator and clear beam• Measurement mode: xenon source of Fluorescence, phosphorescence, chemiluminescence and bioluminescence. Lifetime measurements.• Maximum data collection rate required: 80 points per second.



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		<ul style="list-style-type: none">• Software: User friendly, based on Microsoft XP. Facility for scan application, kinetics, life time measurements, data storage, graphical display, concentration should be available. The software should include validation application.• Accessories: System should be supplied with standard liquid cell holder with solid sample holder.• Computer, printer and UPS: Compatible PC, printer and UPS of latest configuration should be quoted.
5.	Microtome cutter with paraffin incubator and vaccum pump	<ul style="list-style-type: none">• Section thickness setting: 1-50 micron, in steps of 1 micron• Knife length: standard, 120 mm• Operation: manual• Block (Specimen) Holder: Set of three• Object feed : Manual• Vertical specimen stroke: 55 mm• Max. specimen size: 32 mm section• Specimen orientation: 360°• Adjustment with locks: provided• Thickness control: manual with micrometer• Knife angle: 0 to 10°• Dimension: 300*300*240 mm• Weight: 32 to 35 kg• Honing stone: Provided• Dust cover : Provided• Compatible paraffin incubator and vaccum pump with all necessary fittings. <p>Instruction manual : Provided</p>

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 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.



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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 latest by 5.30 PM of 11th of May, 2017. If posted/couriered, should be reached by 5.30 PM of 11th of May, 2017 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