



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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तेजपुर-784028 :: असम / TEZPUR-784028 :: ASSAM

SHORT QUOTATION NOTICE

TU/11-24/PUR/QTN/2016-17/2121 Date: 26.08.2016.

Sealed quotations are invited from reputed manufacturers/authorized dealers/vendors for supply & installation of following equipment required for a SERB sponsored Research project of Dr. A.Kumar, Professor, Department of Physics, Tezpur University.

Items with Specifications:

Sl. No.	Item	Specification
1.	Potentiostat/Galvanostat	<p>Electrochemical workstation consisting of Mainframe, ADC, DAC, USB decoder electrometer amplifier, dummy cell, monitor cable, cell cable, windows based software, license with getting started manual and installation.</p> <p>Hardware specifications: Compliance voltage: ± 30 V or better at ± 2 A Maximum Output Current: ± 2 A or better at ± 30 V Output voltage range: ± 10 V Measured voltage resolution: $0.3 \mu\text{V}$ Current Ranges: smallest current range: ± 10 nA to current range 1 A in nine ranges Measured current resolution: 30 fA on 10 nA full scale range Potentiostat bandwidth (at 1 kΩ, 1 mA): 1 MHz Potentiostat rise/fall time: 250 ns or lower Interface: USB interface for connection with PC Input bias current: < 1 pA Input impedance of electrometer: $> T\Omega // 8$ pF Bandwidth of electrometer: > 4 MHz A/D converter: 16 bit gains of 1, 10, 100 & 1000 D/A converter: 16 bit 4 ch. External input/output signals: 2 Digital I/O lines: EIS frequency range: 10 μHz to 32 MHz Signal generator frequency range: 10 μHz to 30 MHz Frequency resolution: 0.003% Input range: ± 10 V</p> <p>Software specifications: Electrochemical software with basic electrochemical measurements:</p> <ul style="list-style-type: none">• Cyclic voltammetry• Sampled DC voltammetry• Tafel plots• Differential pulse voltammetry• Square wave voltammetry• Chrono Amperometry• Chrono Coulometry



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		<ul style="list-style-type: none">• Chrono Potentiometry Open circuit potential (OCP) measurements Rotating disc electrode (RDE) control Digital DIO (TTL) triggering LabView drivers and ready-to-use Vis Should have facility to record additional signal viz EQCM, bi-potentiostat etc. A suitable branded computer like Dell or Compaq or equivalent for system control & data acquisition should be offered with the system Electrochemistry cell: 50 ml glass cell: 1 no 2 mm diameter platinum disc working electrode: 1 no 2 mm diameter Glassy carbon working electrode: 1 no 1 mm diameter 40 mm length platinum wire counter electrode: 1 no Ag/AgCl reference electrode (aqueous): 1 no Ag/AgCl reference electrode(non-aqueous): 1 no Calomel reference electrode: 1 no Suitable lid for the cell and purge tube with valve
2.	High Temperature Vacuum Furnace	Inside Chamber Size 200 x 200 x 200 mm (8"x8"x8", 8 Liter); Standard Working Temperature 1000 °C (continuous); Maximum Working Temperature 1200 °C (< 3hrs); Furnace Atmosphere Nitrogen, Argon and other inert gases; Temperature Control 20 steps programmable and PID automatic control; Heating Rate 0~15 °C /min (suggestion: < 10 °C); Temperature Accuracy +/- 0.5 °C; Heating Element SiC/Kanthal heating elements; Working Voltage AC 208V-240V Single Phase 60/50 Hz; Max. Power 6 KW Outside Size 550 x 540 x 820 mm; Net Weight 200 Kg.
3.	Minor Equipment: (i) Auto Clave (ii) Oil Bath (iii) Ice Bath (iv) Magnetic Stirrer	Autoclave Portable (7407PAD); Capacity: 50 mL, 100 mL, 22 Ltr. (variable capacities); Size: 300 x 230 mm (variable sizes) Oil bath (High Temp.) ; Double walled with inner made of SS sheet and outer of M.S. sheet duly epoxy powder coated; The gap between the two walls is filled with glass wool to minimize thermal loss; Temperature range from 50 °C to 250 °C , +/- 2 degree is controlled by capillary thermostat; Supplied complete with plug and cord to work on 220/230 volts AC supply ; Capacity : 15 Ltr. Ice Bath air cooled ; Cools to 20°C below ambient ; Capacity : 3 Ltr ; Outer Dimension 12.8"x 5.9"x 9.8"; Power Supply 100-240 V AC ; 50/60 HZ ; 160 W; 12 V DC output. Magnetic stirrer with hot plate; Capacity : 1 Ltr. and 3Ltr.

GENERAL TERMS & CONDITIONS:

1. No separate tender paper will be issued from the office; one should only download the specifications/List from the website.



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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. Quoted rates should be valid at least for a period of 01 year.
6. The rates should be quoted along with supporting documents of specifications and technical features and list of users.
7. All the quotations must be accompanied with supporting documents and / or literature.
8. 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.
9. The University is exempted from paying Custom and Excise duty.
10. Proprietary items should be quoted with sole Manufacturer/Distributorship certificate.
11. Warranty/Gurantee period should be specifically mentioned in the quotation.
12. 10% Performance Bank Guarantee on the ordered value covering the warranty period is required for items of higher values for foreign equipment as well as Indian equipment.
13. No Advance payment will be made. However, for foreign supplier, advance payment may be considered by FDD/Wire Transfer/LC etc.. In such cases 10% Performance Bank Guarantee should be submitted before issuing FDD/Wire Transfer/LC, covering the warranty period.
14. The University reserves the right to accept or reject any or all the quotations without assigning any reason.
15. Quoted price should be inclusive of essential accessories and should be CIF Tezpur University, Tezpur
16. Applications for release of EMD should be submitted to the Registrar/ Joint Registrar.
17. Apart from the above terms and conditions the University has the right to include any other terms and conditions as and when felt necessary.
18. Authorization/Dealership Certificate of the Company(s) whose product has been quoted has to be provided.
19. **Quotation should be submitted in the DROP BOX placed in the reception of the Administrative Building of the University within 21 days from the issue of the notice. If posted/couriered, should reached within 21 days from the issue of this notice 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- Assistant Registrar (GA)
Tezpur University