



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

कुल सचिव का कार्यालय / OFFICE OF THE REGISTRAR

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

SHORT QUOTATION NOTICE

TU/11-24/Pur/Qtn/2016-17/4717-A. dated:- 10.02.2017

Sealed quotations are invited from reputed manufacturers/authorized dealers/vendors for supply, installation & commissioning etc. of following items required for the Deity Project of Dr. N.S.Bhattacharyya, P.I & Professor, Department of Physics, Tezpur University.

List of equipment along with specifications.

1. Microwave free space measurement system with following components and specifications

- The system must be compatible with Agilent PNA (model no. E8362C).
- The system must be capable of measuring the material parameters (complex permittivity and complex permeability) and EMC parameters precisely in C-band (4-8.2 GHz) and X-band (8.2-12.4 GHz). However system must have options to upgrade it to other microwave frequency band.
- System should be accompanied by dielectric lenses or highly directive or band specific antennas and probes for minimize the sample size.
- Antenna position should be varied in a very precise manner with high resolution stepper motors.
- System should be capable of measuring material parameters (reflection and transmission losses, permittivity and permeability) in normal incident as well as at different angle of incident with precise angle variation
- Calibration and graph plotter software (English language supported) should be included with the system. Data analysis software must have the following features: Permittivity and permeability measurement, Reflection and transmission loss calculation, RCS calculation.
- Standard samples with datasheet have to be supplied with the system for calibration and comparison.
- Adaptors and microwave cables for the system must be included.
- 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.
- Warranty of the system (atleast 3 years) must be specified.

2. High temperature muffle furnace

- Maximum temperature of the furnace should be 1200°C.
- Continuous operating temperature should be around 1100°C.
- Furnace should equip with PID controller and with proper temperature and time display.
- Temperature sensitivity should be 1°C.
- Inner chamber dimensions should be in the order of 200mm*200mm*140mm.
- 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.
- Warranty of the system must be specified.

3. Hot air oven

- Maximum temperature of the oven should be 250°C.
- Accuracy should be $\pm 1^\circ\text{C}$.
- Temperature should be controlled by PID controller.
- Digital display for temperature and time is required.
- Minimum inner chamber dimensions should be in the order of 600 mm*600 mm*600 mm.
- System should be provide with good quality stainless steel outer body.
- 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.
- Warranty of the system must be specified.

4. Laboratory Centrifuge

- Multi-purpose laboratory centrifuge with rotors for 15ml/50ml/200ml tubes.
- Speed set range 500-14000 rpm.
- Speed control accuracy ± 20 rpm.
- Speed set range 10 rpm.



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- Programmable microprocessor control system with atleast 10 program memories.
- Digital display for program number, speed, time etc.
- Time: 1-99 minutes and hold position.

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. 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. Authorization/Dealership Certificate of the Company(s) whose product has been quoted has to be provided.
18. Apart from the above terms and conditions the University has the right to include any other terms and conditions as and when felt necessary.
19. **Quotation should be submitted in the DROP BOX placed in the reception of the Administrative Building of the University within 30 days from the issue of the notice.If posted/courierred, should reached within 30 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/- Joint Registrar
Tezpur University