



# 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/2015/3772 dated:- 08.01.2016.

Sealed quotations are re-invited from reputed manufacturers/authorized dealers/vendors for supply, installation & commissioning of following equipment required for the AICTE Project of Dr. M.K.Hazarika, Department of Food Engineering and Technology, Tezpur University against our earlier notice No. TU/11-24/Pur/Qtn/2015/2363 dated:- 22.09.2015. Those who have submitted quotation in response to our earlier notice may submit their revised quotation in reference to their earlier quotation. In such cases, Tender Fee & EMD is not required.

### Items with specifications:

#### **1. Fluid Bed Dryer:**

The dryer should be a laboratory scale unit. The purpose of the dryer is to laboratory dry small sample of granular material in fluidized state employing heated air.

- (i) Heated air is generated to a temp of 180-200°C with heater within 2.5 kW rating.
- (ii) Should have a compact size for in installation and operation in a laboratory. Size of drying chamber 2-5 litre, Should have a powerful air delivery system to generate sufficient air velocity for fluidization. . Should be operable with small sample size
- (iii) Electrically operated from a standard electrical supply..
- (iv) Control: Control should be there for the selection of the operating air temperature, air flow rate. Also, should be fitted with timer for setting of operation time.
- (v) Optional added capabilities: adaptable to inserting humidity, temperature and velocity probes for capturing of data like air flow rate, inlet/outlet temperature and humidity during operation, adaptable to operation as per user defined multi step programs with storage and/or capture of data should be capable of generating pulse in air flow. Required accessories for this, including the desktop, should be quoted separately with specification of temperature, humidity and for computerized control of the system.

#### **2. Vacuum oven (with provision for sustaining high steam heating when needed):**

The customized system of vacuum oven, with provision of creating alternate vacuum and high pressure steaming should consist of the followings:

- (a) Vacuum chamber: small size, vol approx. 10-12 liter, should withstand high vacuum, and pressure of 5-7 bar, jacketed for steam supply.
- (b) Buffer vacuum chamber: big size, vol approx. 1200-1500 liter, should withstand high vacuum, jacketed for water circulation
- (c) Vacuum pump (for creating vacuum in the system, through a condenser)
- (d) Condenser, for removing moisture from air removed by the vacuum pump
- (e) Piping system between Vacuum chamber and buffer Vacuum chamber, with pneumatic butterfly valve system for pressure regulation between them.
- (f) Steam piping to vacuum chamber, and jacket, from external source of steam
- (g) Small capacity steam generation system may be included as an optional component (pressure 5-7 bar).

#### **3. Lab scale steamer**

The equipment should be able to carry out steaming with saturated steam at atmospheric pressure and at higher pressure up to, not less than 5 bar

- a. Electrically operated.
- b. Control: Adjustable operating temperature / degree of superheat, should give indication of operating temperature/pressure.
- c. Size: Compact unit usable in a lab
- d. Adequate safety provision

***It is desirable that the unit has additional capability (as optional) such as high temperature steaming at atmospheric pressure. It should have in-built steam generator with super heating facility. The alternate arrangement of heating by direct steam supply (piping and valve) may also be considered in which case the steam generator should be quoted as optional accessory.***



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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 ` 5,000/- (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. 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.
8. All the quotations must be accompanied with supporting documents and / or literature.
9. Demonstration may be sought from the vendors for authentication of quoted specification.
10. 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.
11. The University is exempted from paying Custom and Excise duty.
12. Proprietary items should be quoted with sole Manufacturer/Distributorship certificate.
13. Warranty/Gurantee period should be specifically mentioned in the quotation.
14. 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.
15. Performance Bank Guarantee also has to be submitted for Major equipments of Indian origin, covering the warranty period.
16. Items of Foreign origin should have Insurance up to installation on site.
17. The University reserves the right to accept or reject any or all the quotations without assigning any reason.
18. Quoted price should be inclusive of essential accessories and should be CIF Tezpur University, Tezpur
19. Applications for release of EMD should be submitted to the Registrar/ Deputy Registrar.
20. Apart from the above terms and conditions the University has the right to include any other terms and conditions as and when felt necessary.
21. **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 Deputy Registrar (GA), Tezpur University". The Quotation Notice No. and date should be clearly superscribed in the the envelope/packet containing the quotation.**

Sd/- Deputy Registrar (GA)  
Tezpur University