



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/2016-17/4179-A Date: 10.01.2017

Sealed quotations are invited from reputed manufacturers/authorized dealers/vendors for supply & installation of following equipment required for UGC-SAP, Department of Food Engineering Technology, Tezpur University.

Item with Specifications:

1. **Freeze drier**

- Trap cooling temp : Not above -50°C
- Shelf temperature range : - 50 to 50 °C
- Cooling Capacity : 6 - 12 L
- Vacuum pump : Suitable for sublimation
- Vacuum pump required throughout : Matching to the chamber volume to pull down the vacuum within 20 minutes
- Drying manifold & shelf : Should facilitate both manifold & shelf
(Min. 4 port T-Shape Manifold and Min. 4 Shelves for bulk drying with stoppering device)
- Suitable temperature sensor for product matching with shelves.
- The unit is to be controlled through user defined program.
- **3 years unconditional warranty** should be provided free of cost

Accessories to be quoted separately as optional:

- Provision for monitoring progress of drying based on mass measurement.
- Suitable online UPS (6 KVA)

2. **Super Critical Fluid Extraction (SFE) System**

SFE system should have following Features.

A) Range of operations (Extraction with CO₂):

- Flow rate: Up to 50 g/min
- Pressure: Up to 600 bar with $\pm 1\%$ full scale pressure
- Temperature: Ambient to 80°C or above
- Cooling: Circulating coolant for high pressure CO₂ pump

B) Cooling Heat Exchanger

C) Electrical Heat Exchanger

- Temperature: Up to 150°C

D) High Pressure Extraction Vessel

- Extraction Vessel Volume: 100 ml/ 500 ml

E) Automatic Back pressure regulator

F) High Pressure Fraction Collection Vessel:

- Volume: 500 ml

G) Temperature controller for monitoring and controlling up to six zones independently.

H) Particle Collector

I) Manual back pressure regulator

J) High pressure Co-Solvent pump

- Flow rate – 10g/min
- Operating pressure - 380 bar or above

K) System should be fully control by Software.

L) **3 years unconditional warranty** should be provided free of cost

M) Installation followed by application training should be provided at site

System should be supplied with latest suitable software and branded PC and laserjet printer. Circulating cooling bath (should be of same manufacturer/reputed brand), two (2) CO₂ cylinder, double stage gas regulator and all necessary tubing and valves should be supplied along with the system.

Indigenous Accessories to be quoted separately as optional:



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- Suitable online UPS (6 KVA)

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. 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 30 days from the issue of the notice. If posted/couriered, should be 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