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## UNDER-POSTING OF CERTIFICATE



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**SARDAR VALLABHBHAI NATIONAL INSTITUTE OF TECHNOLOGY  
SURAT (GUJARAT) 395007.**

### **CHEMICAL ENGINEERING DEPARTMENT**

**INVITATION FOR QUOTATION FOR SUPPLY OF  
Goods under national shopping procedures**

Ref. No.: ChED/AP/ Freeze Dryer (Lyophilizer)/SRP/ <sup>1391</sup> / <sup>1460</sup> /2018-19

Date: 30/01/19

To,

31 JAN 2019

#### **Sub: Invitation for Quotation for Supply of Freeze Dryer (Lyophilizer):**

Dear Sir,

You are invited to quote your prices for supply of stores listed below. The quotations may be sent to "The Director, SVNIT, Surat." in a sealed envelope and subscribed as: "Quotation with reference to Enquiry No. as above dated". Your quotation should reach the under signed on or before 14/02/2019.

Sr No.	Item	Qty.
1	<b>Freeze Dryer (Lyophilizer)</b> <b>Specification</b> Housed in a super structure steel trolley corrosion resistant model mounted on swivel casters. Complete with Perspex see through lid and Silicon gasket. For drying the sample in flask, petridish, beaker, vials etc. and capable of holding 4flask of different sizes at a time. PUF insulated, CFC free refrigeration. <b>Condenser capacity and temperature:</b> Condenser made of Stainless steel 304, nonmagnetic, argon welded with SS-316L Freezing coil capable of removing over 2-3 lits of water in 24 hours, CFC-free refrigeration system to cool collector to $-75^{\circ}\text{C}$ - $80^{\circ}\text{C} \pm 3^{\circ}\text{C}$ . <b>Temperature and vacuum monitoring:</b> Microprocessor based digital LED/LCD temp. display of ice trap and gauge vacuum display. <b>Vacuum pump:</b> Direct drives 100 LPM rotary vane pump along with all accessories like inlet and outlet filters, tubing, oil etc. with anti-suck back device, oil sealed, ultimate vacuum 10 microns without load and 20-30 microns on load during freeze drying with air ballast having ultimate vacuum of $1 \times 10^{-3}$ torr on pump head (minimum at list 20Pa) <b>Prefreezer /Loading chamber:</b> Shelf which can place 10ml capacity vial. Minimum 30 no. of vial 10 ml can be placed at a time. Optional facility of vial stopping device for 10 ml capacity vial X30 nos. at a time for sealing vial under vacuum. Shelf freeze dryer has a facility to run freezing cycle to freeze the sample up to $-50^{\circ}\text{C}$ or below. <b>Auto start for Vacuum Pump:</b> Built in auto start for vacuum pump at $-35$ - $40^{\circ}\text{C}$ condenser temp. Replaceable connectors are used for wiring approximate electrical load 5 KVA 220 Volts 50 cycles. Inbuilt Pre-freezer with capacity of 1.5-2 liters. Having tray to keep the samples for pre freezing at $-30$ - $40^{\circ}\text{C}$ .	1


Contd. 2.

(2)

With quotations furnish the following information.

- (1) The brand or make of an item should be specifically stated and wherever necessary. Complete set of specifications and dimensions should be given.
- (2) If asked, samples are to accompany the quotations.
- (3) Sales tax, General tax, Central Sales tax, Custom duty, Insurance charges, Packing and Forwarding charges; if not included under the prices quoted, should be clearly specified
- (4) The period of validity of the quotation must be specified. Offers subject to prior sale may please be avoided.
- (5) The delivery period is to be clearly mentioned in the quotation.
- (6) The mode of delivery of the stores may be mentioned. The delivery should be F. O. R. Surat or the Institute. The Institute is located in the Municipal Limits & exempted from paying of Octroi Duty
- (7) All concessions available to an Educational Institution should be specified and also taken into account while quoting.
- (8) The Director reserves the right to accept stores which are not strictly in conformity with the specifications but otherwise found suitable.
- (9) Payment is normally made by Cheque drawn on the S. V. R. C. E. T. Branch Office of State Bank of India, SURAT – 395 007. Within a period of thirty days from the date of receipt of store.

*Mausami*  
*30/01/19*

 Dr. Mausami Mukhopadhyay  
Head, (ChED)