



CORRIGENDUM

Amendment No.1 Dated 29.11.2022

To

Tender No. EDII-ABIRF/2022-23-001

This Amendment is issued for the following changes in aforementioned tender:

- 1) On page number 15, the word 'Or' has been included after the 4th bullet point in the General Specifications of the Equipment: Lyophilizer. The modified page was also uploaded separately in the following website <https://annaincubatortrichy.com/> and <http://www.aubit.edu.in/index.htm>

All other Terms & Conditions of the tender remain unchanged.

Nodal Officer

EDII-Anna Business Incubation Research Foundation
University College of Engineering, BIT Campus,
Anna University, Tiruchirappalli 620 024

Technical Specifications- Open Tender

1) Lyophilizer and its accessories

- Refrigeration: Should have in built refrigerant to cool minimum – 80°C, with SS 304 grade drum.
- System should have Stainless steel/Acrylic drying chamber with at least 12 ports with controlled valves to hold round bottom flask and other accessories.
- The system should be quoted with vacuum pump
- Different size of flasks with adaptors should be provided (at least 12).
- The instrument should be equipped with provision to lyophilize/freeze dry contents of glass vials (10 mL capacity, 25 mm Diameter x 50 mm Height) and then seal it under vacuum.
- The system should have both automatic and manual operating system
- The instrument should be able connect up to 12 flasks and should have suitable valves to connect to round bottom flasks from 100 ml to 2 liters.
- Vacuum pump should be high quality, corrosion resistant vacuum pump and Displacement capacity: 150 L/min. The Inlet must be properly isolated to prevent oil and air contamination of the system in the event of power failure
- The system should have operating mode both standby or run.
- The machine must be endorsed by CE mark, confirming "Conformité Européenne" for free-trading of European Economic Area, with the appropriate supporting documents

General specifications

- Performance (drying rate): at least 2 Kg/24 hour
 - Ice Capacity: at least 2.5 kg Ice
 - Condenser Capacity: at least 3.0 Liters
 - Ice Condenser Temperature: minimum -55 deg C
- (OR)**
- Provision for heating and cooling of product shelves in the range of -60°C to +40°C.
 - Max. condenser capacity: 30kg or better
 - Condenser capacity: 20kg/24h or better
 - Minimum final temperature: -80°C or lower.
 - The temperature of the condenser at the end of the drying process should be at least -65°C.
 - Cooling down speed: from ambient to -40°C in 30min
 - Refrigeration system may be Air cooled or Water cooled.

Accessories

- In addition to above specifications, vacuum pump oil (minimum 20 Litres), additional vacuum sensor, injection vials of suitable size and filters should be provided with the instrument.

- Should be supplied with 15 KW UPS along with suitable and appropriate batteries (12 V 120 Ah) for at least 6 hours back up.

Warranty and Annual Maintenance Contract (AMC)

3 years of warranty from the date of installation must be provided for Lyophilizer and 4th and 5th years must be covered by AMC after the warranty period.

Desirable conditions

- IQ, OQ and PQ certificates must be produced upon installation.
- The machine should comply with FDA 21 CFR part 11 regulations.

Installation and trainings

Installation must be done at EDII-Anna Business Incubation Research Foundation, UCE, Anna University BIT Campus, Tiruchirappalli at free of cost along with the consumables for installation, if any. As per the requirement and request, Hands on trainings for Incubatees, research scholars, faculties and students should be provided at free of charge by technical persons during the entire warranty period.