

**Department of Optoelectronics, University of Kerala, Kariavattom,  
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**Quotation Notice**

OPTO/P-19/2022-23

Quotations are invited for the purchase of the following item in the Department

**ITEM – FREEZEDRYER**

**Condenser:**

- Condenser capacity: 3-5kg
- Should be capable to lyophilize samples in aqueous medium as well as in organic solvents.
- Condenser temperature: -50°C or better
- Ice condensation chamber with high quality stainless steel inner condenser coils and drain valve for easy and quick cleaning.
- Condenser should have sufficient condenser area in order to avoid overload caused by too much vapour.
- Refrigeration Compression Type: CFC free refrigeration with suitable safety device.

**Freeze dryer chamber:**

- Should have inbuilt pre-freezing unit with tray.
- Drying Chamber should be of transparent with tray dimension 200 – 250 mm and have minimum 4 layers.
- Should have LCD display to show display curve.

**Vacuum pump:**

- Vacuum degree: <10Pa
- Should be of high-quality corrosion resistant material and have thermal protection.
- System should have digital display of condenser temperature, sample temperature and vacuum for the possible range of operation.

The price may clearly indicate installation, applicable tax, packing, forwarding and handling charges separately. The firms wish to supply the item are requested to submit the quotation in sealed cover to the undersigned not later than 3:30pm on 03.11.2022. Quotations will be opened at 10:30am on next working day (04.11.2022) in the presence of the suppliers or their authorized agents.

21.10.2022

Professor & Head