TECHNICAL SPECIFICATION FOR FREEZE DRYER (BENCHTOP LYOPHILIZER)

- The system should be a compact benchtop design with a small footprint and capable of handling all type of aqueous, alcoholic, organic (DMSO, DMF etc.) and inorganic samples.

- Operating voltage: 230 V

- Should have an overall condenser chamber capacity ≥ 8L.

- The condenser temperature should be between -85°C to -105°C.

- The refrigeration system must be of cascade type with two compressors circuit

- The condenser cooling coils must be external for ease of cleaning

- Should have an advanced PLC based controller for easy operation and to monitor the critical freeze-drying parameters like Temperature, vacuum level, and alarm conditions.

- The system should have hot gas defrost option for fast turnaround time.

- The display should show real-time graphical screen, data logging to review system parameters during a run.

- The system should have a vacuum control valve for controlling the vacuum level.

- The system should be supplied with a Stainless steel manifold (drum type) with 18 Ports/valves to connect flasks of different sizes complete with adaptors/ valves etc. and S.S Shelf racks (3 or more).

- Flasks (wide mouth safety coated) of 300ml and above and corresponding adaptors.

- Combination Rotary Vane/diaphragm vacuum Pump for superior handling of organic solvents (eg. Teflon coating)

- Filter trap and Activated charcoal inserts Cartridge for use with organic solvents.

- Stoppering Trainer for stoppering a small number of vials on a manifold.

- Other important and necessary accessories such as connectors, adapters for ampules, etc. for the functioning of system to be included

- The system should come with 3 years of warranty