

## **CHAPTER - 4**

### **CORRIGENDUM**

#### **TECHNICAL SPECIFICATIONS FOR BENCHTOP FREEZE DRYER / LYOPHILIZER**

<b>Tender Specifications :-</b>
Compact certified Bench top complete working configuration Freeze Dryer / Lyophilizer (4.0 Litre or more) with at least minimum specification as below:
System should be microprocessor controlled.
Ice condenser and cooling coil should be made of Stainless Steel and it should be PTFE Coated., if it is not PTFE Coated at least 5 years warranty must be given on condenser & cooling coil, Condensing capacity should be at least 4 lit. or more / 24 hour
Refrigeration: Should have refrigerant to cool minimum – 80 Deg C or below
System should have electronic controlled device to program and automatically control vacuum to maintain vacuum level.
System should have Stainless steel / Acrylic drying chamber with at least 8-12 ports with controlled valves to hold round bottom flask and other accessories.
Should have digital display system for operating parameters, setup parameters, like display of vacuum, condenser temp, time etc. and alarm messages like power failure etc.
The system should be quoted with Chemical Resistant Hybrid Vacuum pump with Ultimate vacuum of partial pressure of $2 \times 10^{-3}$ mbar or lower.
Different size of flasks with adaptors (manufactured by the same company) should be provided (at least 12).
10 Litre Vacuum oil should be provided with the system.
Warranty:- 3 Years including parts.
UPS: 5KVA with at least 1 hr backup