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File No: Nematology/2019-20/Freeze dryer/45/01

Dated: 04<sup>th</sup> July, 2019

**Corrigendum**

With reference to tender no. Nema/19-20/FDR/45/01 dated 15.06.2019 the important dates of tender has been changed due to some administrative reason and may be treated as follows:-

**Critical Dates**

Publish Date	04-Jul-2019 04:15 PM	Bid Opening Date	26-Jul-2019 02:30 PM
Document Download / Sale Start Date	04-Jul-2019 04:30 PM	Document Download / Sale End Date	25-Jul-2019 01:00 PM
Clarification Start Date	NA	Clarification End Date	NA
Bid Submission Start Date	04-Jul-2019 04:45 PM	Bid Submission End Date	25-Jul-2019 01:00 PM
Bid Submission End Date	25-Jul-2019 01:00 PM		
Bid Opening Date	26-Jul-2019 02:30 PM		

Sd/-  
Asstt. Admn. Officer

## Annexure-A

### Freeze dryer 4.5 liters capacity with accessories

#### **The freeze dryer System should have-**

1. Teflon coated upright stainless steel collector coil and condenser chamber with Ice Holding capacity of 4.0 Liters or more before defrosting.
2. Water removal capacity of 2.5 Liters or more in 24 hours.
3. Dual 1/3 hp or more HCFC/CFC-free refrigeration system to cool collector to -105°C or below.
4. Hot gas defrost function & Vacuum control option to maintain set point vacuum level.
5. Mechanism for preventing the oil back-streaming into the collector chamber during the power outage.
6. Color touch screen display that for operating parameters, set up parameters and alarm messages.
7. An audible and visual alarm system for alarm conditions like Power failure, Auto e-mailer to user for any abnormal event during freeze drying, moisture in drain, Improper line voltage supply etc.
8. A USB/RS232 Port to transmit data to a user supplied computer.
9. Stainless steel drying manifold with 10 Ports or more to connect flasks of different sizes complete with adaptors/ Valves etc.
10. A 3 tier product shelve which can fit inside the drying chamber & tube holder for 15 ml tube should be provided.
11. Round bottom flask with adaptor: 100 ml (4 no's) must be supplied with the system.
12. Wide mouth flask with adaptor and other necessary accessories of following capacity should be provided with the system 40 ml (2 no's) and 750 ml or more (3 no's).
13. Chemical Resistant Combination Rotary Vane / Diaphragm vacuum pump designed for use with acid and other harsh chemicals with minimum displacement capacity of 90 L/min. Ultimate vacuum (partial pressure)  $2 \times 10^{-3}$  mbar (1.5 micron). Includes one liter bottle of vacuum pump oil, power switch, power cord & plug.
14. CE, ISO and UL Standard 61010-1 compliance.
15. If quoting on behalf of foreign manufacturer and authorization letter specific for this particular enquiry / tender must be enclosed otherwise the quotation will not be considered.
16. Free one year warranty plus two years of AMC must be included in the quote.

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**(Dr. Uma Rao)**  
Head & PI