

Technical Specification for Drying and Heating Oven

Tender Ref. No.: CE/STORES/2021/JMKN/Drying and Heating Oven

Requirement: Drying and Heating Oven with Forced Convection, Enhanced Timer Functions and Microprocessor Temperature Control

Sl No.	Feature	Specification
1	Working temperature range	At least 12°C above ambient temperature to a maximum of 300 °C
2	Temperature accuracy	Should not exceed 2°C up to 150°C
3	Temperature sensors	Pt100 sensors
4	Interior Volume (L)	Minimum 700 L
5	Permitted Load (kg)	Minimum 300 kg
6	Load per rack (kg)	Minimum 30 kg
7	Internal dimensions	Minimum 1000mm width, minimum 1200 mm height and minimum 570 mm depth
8	Requirement of Programmable control	1. Ability to collect data using the USB port with the provision of data logger kit 2. Ability to design temperature ramp, adjust fan speed, delayed off and timer set control after reaching the target temperature.
9	Timer functions	Ability to control the operation of the oven using timer functions
10	Material for construction	Chrome-plated stainless steel
11	No. of internal shelves:	At least 2 number of chrome-plated grilled racks. Also, 2 perforated racks and 2 heavy loading racks are also needed.
12	LCD display	A display of chamber temperature, set temperature, fan speed, temperature ramp, object temperature, and a timer is preferred.
13	Air circulation	Forced air circulation using at least 2 air turbines with the facility to adjust each of these individually. Provision for fresh air circulation and air flap is required.
14.	Electrical	400V, 50Hz, Three-phase

Additional Details:

1. The vendor should supply details of the energy consumption of this unit.
2. The heating-up time to 150°C in addition to recovery time for door open should be provided.

Interested vendors may send the proposal for this item with the above specifications to the following address as two bid system 1. Technical bid & 2. Financial bid each in a separate sealed covers inside a single big cover. Tender reference number should be mentioned on the top left side of the big cover.

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