

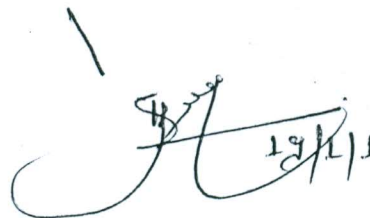
ANNEXURE

Specification for Muffle Furnace (Temperature range: 1400 °C)

Digital type of size 6" x 6" x 12" deep for continuous duty. The casing to be made of thick mild steel sheet reinforced with iron angle. Swing type door with counter weight for partial or full opening, peephole to be provided. Casing must be well finished with heat and rust resistant silver ash Hammertone spray paint. The muffle must consist of refractory tiles on which silicon carbide or equivalent, heating elements to be placed in between the MS sheet and muffle. Ceramic blanket and board to be suitable placed to keep the outer shell near room temperature. Temperature must be attained within 2 hours of startup. The muffle must attain uniform temperature $\pm 5^{\circ}\text{C}$ of the preset. The temperature controller must be microprocessor based PID temp indicator cum controller with suitable thermocouple. An electrical control panel box must consist of the temperature indicator, indicating neon lamps for mains, control circuits, relay, energy regulator, thermal fuse for excess temp protection, main cut-off, ON/OFF switch, cable, etc. Voltmeters, ammeters and voltage selector switches to be provided.

Spares for temperature range: 1400 °C

1. Fuse Unit – 12 Nos.
2. Spare muffle and heating elements – 4 Nos.
3. Thermocouple – 4 Nos.
4. Temperature controller – 2 Nos.


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