

# WEST BENGAL MEDICAL SERVICES CORPORATION LTD.

(Wholly Owned by the Government of West Bengal)

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## INVITING TENDER IN SEALED ENVELOPE FOR VARIOUS ITEMS TO BE USED FOR C& DST LABORATORY, BURDWAN MEDICAL COLLEGE & HOSPITAL

### Amendment-I

#### Technical Specification

#### Autoclave (Horizontal)

1. Stainless Steel of SS-304 grade, Triple walled with a steel jacket, separate boiler, inner and outer chamber, jacket and boiler made of stainless steel, The pressure is adjustable from 5 psi to 20 psi with automatic pressure control switch, which controls the pressure with an accuracy of +/- 1 psi, LW cut off, auto safety door lock, mounted on rigid tabular stand.
2. Spring loaded safety valve of stainless steel. Inner dimensions of chamber: (approx.) cylindrical - 600mm diameter x 1100mm deep **with +/- 10% tolerance**, 9KW (approx.) electrically heated, Working pressure: 1.2 - 1.5 kg/sq. cm. There should be provision for vaccum for drying of racks and porous loads.
3. Automatic Pressure Control Switch - To cut-off the current from the heating elements, when the desired/set pressure value level is attained inside the chamber and restarts the mechanism once the pressure inside the chamber falls from the desired level.
4. Automatic Water Cut-off Device - To protect the heaters from running dry and to ensure that the machine is automatically switched off in case the desired water level falls below the prescribed level. Temperature Indicator to indicate the temperature inside the chamber.
5. Timer with Alarm System - To regulate the sterilization time of the media to be sterilized and when the desired time is passed, with a buzzer, to that the completion of sterilization cycle.
6. **The product should be BIS approved.**

## Hot Air Oven

1. Thermostatically controlled, temperature range ambient to 250°C with fine and coarse adjustment, Memmert type, with fan, digital display, approx. overall size 81 cm (H) x 58 cm (L) x 71 cm (W), internal size 46 cm (H) x 40 cm (W) x 35 cm (D) stainless steel (SS) interiors with +/-10% tolerance supports on three sides for adjustable shelves of size 38 cm x 34 cm, number of shelves:3.
2. Fan convection to ensure uniform temperature, fitted with load indicator and safety thermostat take over indicator lamp. Temperature variation + 10°C, LCD/LED indicator.
3. The product should be CE / ISO certified.

## Water Bath

1. Dimensions: External (mm): 528 x 360 x 235 (L x W x D) (depth 566) with +/- 10% tolerance
2. With lift-off lid (Height): 270 270 375 / With hinged lid (Height): 320 320 425
4. Dimensions: Internal (mm): 325 x 300 x 140 (L x W x D) (Tank only) with +/- 10% tolerance
5. Capacity: 25 litres
6. Raised Shelves supplied: 1
7. Heat up time 25°C - 55°C: 100 minutes  
25°C - 95°C: 200 minutes
8. Net Weight: 20kg
9. Packed Weight: 28kg
10. Packed Dimensions: 575 x 460 x 390 (L x W x D)
11. Timer Range: 0:01- 99:59 + Continuous
12. Temperature Range: Ambient + 5°C to 100°C
13. Temporal Variation @ 37°C: ±0.5°C
14. Spatial Variation @ 37°C: ±0.2°C
15. Control System: ZP21 WB/LC microprocessor-based digital system
16. Power Supply: Single Phase + N + E 220-240V - 50Hz
17. Optional Features: Option LL-Lift Off Lid; Option HL-Insulated
18. Hinged Lid; Option S-Refrigeration System; Option N-Water Pump
19. The product should be CE / ISO certified.