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GOVERNMENT OF INDIA  
NATIONAL TUBERCULOSIS INSTITUTE  
MINISTRY OF HEALTH & FAMILY WELFARE, NEW DELHI  
No.8, BELLARY ROAD, BANGALORE - 560 003

F.No.13-40/2021-22/ Stores Part I

11<sup>th</sup> November 2021

**SUB: QUOTATION ENQUIRY**

1. Sealed quotations are invited for the for the instrument/Equipment listed in Para 3. The quotations should be addressed to the Stores Officer, National Tuberculosis Institute, No.8, Bellary Road, Bangalore-560 003. The sealed envelope containing quotation should be superscribed "Quotation for Supply & Installation of Horizontal Rectangular Single Door Autoclave"

Quotations should be valid for a period of 45 days.

2. The last date / time for submission of quotation is on **01-12-2021 13.00 Hrs.** Quotations along with catalogue may be dropped in the Tender box kept in our Stores Unit or send by Regd. Post well in advance so as to reach before the due date / time. Quotations received after due date / time will be rejected.

3. Description of work

Sl. No.	Item description	Qty
1	Horizontal Rectangular Single Door Autoclave ISI/ISO certified. Please refer the encloser for detailed product technical specifications	01

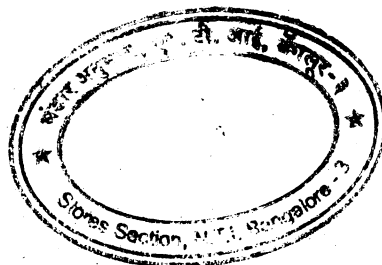
4. Quotations received will be opened at **15.30 Hrs** on **01-12-2021** in the presence of those Tenders present.

5. Clarifications if any regarding specifications of the instruments, you may please contact Dr. Sarika Jain Agrawal, Microbiologist (Tel: 23441192 & 93 Extn: 148) during working hours.

6. The Director, National Tuberculosis Institute, reserves the right to reject any/all quotations without assigning any reason. Your rate should be inclusive of GST, Installation and other charges.

Thanking you,

Yours faithfully,



(Sri. Rony Jose Kokkad)  
Stores Officer  
For Director.

# NATIONAL TUBERCULOSIS INSTITUTE, BENGALURU

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## Specification for Autoclave

Should have

1. **Horizontal and Rectangular Autoclave** for high pressure, high temperature steam sterilization of biomedical waste, laboratory media & reagents.
2. Manual Single Door Autoclave
3. Floor standing model mounted on rigid tubular steel frame.
4. Capacity: 400-500 L
5. Dimensions: 600-650mm width x 600-650mm height x 1200-1300mm length
6. Triple walled with a calibrated steel jacket
7. Chamber insulated by mineral/Glass Wool to minimise the heat losses and is covered by polished stainless steel sheet.
8. Temperature from 105 °C to 134 °C (0.3 to 2 bar).
9. Sterilizing pressure: 1.2 to 1.5 kg/cm<sup>2</sup> (15 psi to 22psi)
10. Should have Inner chamber, jacket made of heavy duty stainless steel 304 or 316 grade quality. 304 grade Stainless steel exterior, top, bolts and lid.
11. In built boiler / Steam Generator of 304 quality stainless steel with manual or automated water inlet valve with water level indicator and pressure gauge, separate compound gauge for working chamber, separate drain valve with ISI Mark Heater of capacity 18 KW.
12. Heat resistant silicone door gasket (withstanding temp up to 140°C)
13. Fitted with pressure, temperature & vacuum gauges, safety valve and steam release valve.
14. Multiport operating valve
15. Safety valve to prevent over pressure above the maximum limit.
16. Pressure Control Switch for pressure controlling.
17. Auto Door Locking System so that the lid cannot not be opened if the chamber is under pressure for personnel safety.
18. Automatic Low Water Cut-off Device: machine is automatically switched off in case the desired water level falls below the prescribed level with visual and audible alarm.
19. Audible and visual alarm for over temperature and insufficient temperature.
20. Chamber discharge line would consist of one plug screen (prevents Chamber from clogging with lint and sediment), one dial thermometer (Indicates the working temperature in the inner chamber accurately), one swing check valve, one steam trap (for automatic removal of residual air and condensate to give optimum sterilization temperature
21. Vacuum dry to allow the steam to penetrate porous areas of the load that couldn't otherwise be reached with simple gravity displacement.
22. Hydraulically Tested up to 40 psi.
23. Electrically heated. Electrical Load should be 18 KW on 3 phase 4-wires, 440 V AC supply, 50Hz with suitable voltage regulator of appropriate rating. The line cord / Power cord supplied with the equipment shall be of acceptable durability, length, and current carrying capacity complying with Indian Standards.