

ANNEXURE
Technical Specifications: Baby Warmer

Physical Characteristics specifications

1. The unit should be made of mild steel tubular structure pretreated and powder coated.
2. Heater Rotation $\pm 90^\circ$ to the side to facilitate X-ray procedures.
3. The heater should automatically shut off when in this position.
4. Bed Tilt should be $\pm 15^\circ$ Trendelenburg and Reverse Trendelenburg, continuous tilt
5. Mattress density should be approx. 21-25 kg/m³ and removable, washable, water proof cover
6. Should have plastic moulded storage drawers under baby's bed 2-3 in number.

System Control specifications

1. Should have microprocessor based heater control and manual modes of operation
2. Should have user friendly touch sensitive control panel with large easy to read LED displays for actual (patient and air temperature) and set temperatures.
3. LED indicator for selected mode.
4. Should have Quartz Infrared Heater with parabolic reflector for uniform heat Radiation.
5. The heater unit should be protected by a suitable grill.
6. The heater unit should be swiveling type and should be swiveled effortlessly.
7. The probes should be detachable type.
8. Should have memory back up to retrieve set data against power failure.
9. Should have calibration free temperature sensors.
10. Should have alarms with visual indicators for the following
 - i. Temp high
 - ii. Temp low
 - iii. Probe failure
 - iv. Power failure
 - v. Heater failure
11. The heater should automatically cut off at 38 degree Celsius irrespective of the set parameters.
12. Should have an examination light with ON/OFF switch.
13. Should work with input 200 to 240Vac 50 Hz supply.
14. Should have 0-650 W heater output.
15. Heater output should be adjustable from 0 - 100% in 5% increments
16. servo Control should be between 30 - 38°C in increments of 0.1°C
17. Manual Mode should Indicate manual mode heat selection range from: 0-100% in 5% increments
18. Temperature Measurement Accuracy specification: $\pm 0.3^\circ\text{C}$ @ 30°C to 40°C
19. Temperature Display Resolution specification: $\pm 0.1^\circ\text{C}$
20. Temperature Probe Accuracy specification: $\pm 0.1^\circ\text{C}$ @ 30°C to 42°C
21. Operating Temperature Range: +18 to +30°C
22. Humidity range: 30 to 95% RH

Regulatory Compliance specification

1. Should have safety certificate from a competent authority CE / FDA (US) /STQC CB certificate / STQC S certificate or valid detailed electrical and functional safety test report from ERTL./test report from ETDC.
2. Copy of the certificate / test report shall be produced along with the technical bid.

Warranty specification

Should have One year on parts and services
Lifetime warranty on heater rod