

## Notice Inviting e-Tender

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SUPPLY AND COMMISSIONING OF RADIANT WARMER WITH BASSINET IN THE HOSPITALS  
AND MEDICAL COLLEGES OF THE GOVERNMENT OF WEST BENGAL.

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-72/2016

Dated-08.12.2016

3<sup>rd</sup> call of tender no. WBMSCL/NIT-48/2016, dated: 19.08.2016 (Supply of Radiant Warmer with Bassinet)

The following amendments have been made in the tender document,

### **Amendment – I (Revision of Technical Specification)**

The revised technical specifications for the item is given below,

#### Radiant Warmer with Bassinet

1. It should be microprocessor based servo controlled unit that will allow at least two operation modes – servo (automatic) and manual mode.
2. The radiant warmer should have a heating element with power consumption of 800 Watts or less. It should have calrod (tubular) / quartz / non-ceramic infrared heating element with parabolic stainless steel / aluminium reflector for uniform radiation of heat

waves to all corners of the bassinet. Heater should be protected by a metal grid / strip to prevent shock hazards.

3. The heater box/ head should be either of swivel type and it must rotate to  $\pm 90^\circ$  from its axis OR fixed type head provided it allows X-Ray exposure from top.
4. It should have LED display (at least 1") for showing skin temperature in manual mode and set and skin temperatures in servo mode.
5. Temperature display should be bright, numerical. The unit may have a rechargeable battery backup for display of temperatures & alarm during power failure.
6. It should have an adjustable light LED source for observation of the baby. The illumination should be bright enough to do the clinical procedure such as IV canulation.
7. The bassinet comprises of foldable transparent acrylic side panels of minimum 6 mm in thickness and can be swivelled easily for cleaning and procedures. Bassinet should not be fixed with the warmer; if it is fixed then it should be detachable easily for cleaning purposes. Both should move on lockable wheels.
8. It must have one fixed transparent acrylic sheet below the mattress for under surface phototherapy and an additional acrylic tray with the bassinet for positioning the X-ray cassette.
9. The unit should have facility for inclination in both directions (trendelenburg and reverse trendelenburg) minimum up to  $12^\circ$ .
10. Stitchless mattress should be supplied with a foam density of 21-25 kg/m<sup>3</sup> with at least 1 inch in thickness. Mattress cover should be made of fire retardant material. Mattress should be waterproof and easily washable. It should be resistant to cleaning with chlorine based solution.
11. The unit should be supplied with 2 (two) drawers and 1 (one) SS-304 grade IV stand. The maximum diameter of IV stand (stainless steel) should be 2.5 cm with 4 pegs (stainless steel) for hanging IV fluids. The IV stand should be strong enough to hold at least 03 standard syringe pumps. **The length of the IV pole should be minimum 5 feet and it should not obstruct the rotation of overhead heater box.**
12. Should be provided with APGAR timing and stop watch.
13. There must be an abbreviation sticker for alarms pasted on the front side of the wall of the Radiant Warmer. The design should get approved from WBMSCL before supply.
14. Cleaning and maintenance of Radiant Warmer and Bassinet should be user friendly and will be evaluated during physical verification.

## 15. Physical parameters

Description		Measurement
Probe length		Not less than 5.5 ft.
Probe sensor diameter		Maximum 1 cm
Length of bassinet		Minimum 680 mm
Width of Bassinet		Minimum 500 mm
Working level from the ground upto upper level of the mattress		Minimum 870 mm
Distance from mattress top and heat source		Minimum 850 mm
Diameter of castors for Radiant Warmer and Bassinet with brakes / locks on front wheels		Minimum 75 mm
Length of the IV pole		Length and adjustment of the pole will be such that the top of the pole will be around 6 ft from the floor
Height adjustment system for Radiant Warmer should be accommodated		± 2 inch
Monitor tray (to be supplied with)		300 mm X 270 mm
Drawer (front opened)	Upper Drawer	Length 400 mm X Width 430 mm X Height 120 mm
	Lower Drawer	Length 400 mm X Width 430 mm X Height 145 mm

The measurements are indicative in nature and any particular parameter if found non user friendly during physical verification concerned manufacturer may be asked for desired changes. The final measurements will be communicated during award of work.

## 16. Recommended environmental specifications

Operating range	Value
Operating temperature range	10°C to 45°C
Operating humidity range	30% – 90% RH

## 17. Skin temperature

Description	Measurement
Range	32°C to 38°C
Accuracy	± 0.2°C
Resolution	0.1°C
Heater output should be controllable from 0 to 100% in increments of 10% or lower in manual mode. The unit should stop heating if the temperature exceeds the desired value by one degree and restart only when temperature falls back below set temperature.	

## 18. Audio Visual Alarm

- Probe Failure
- Power Failure
- High & Low Temperature

**Note:** Power failure alarm (with adjustable intensity if possible) should be mutable.

## 19. Electrical specification

Electrical supply: It should work with standard electrical supply (220 – 240 VAC, 50Hz) but can tolerate wide range of voltage fluctuation (180 – 260 VAC).

## 20. Accessories & Consumables to be supplied with the machine

- Mattress : 02 (two) nos.
- Temp. Probe (Reusable) : 02 (two) nos.
- Fuse set : 01 (one) no.
- Monitor tray : 01 (one) no.

Price for one additional monitor tray should be given separately (quoted price should include all accessories and consumables).

21. The supplier should have local service facility. The service provider should have the necessary equipments recommended by the manufacturer to carry out preventive maintenance as per guidelines provided in the service/ maintenance manual.

22. The complete unit including the heating element should be CE 93/42 or FDA or UL or BIS certified. Test certificate for the equipment to be submitted with the tender.

## 23. Documentation

- User/ Technical/ maintenance manuals to be supplied in English.
- List of installation base with their contact phone number.
- List of equipments available for providing calibration and routine preventive Maintenance Support (if applicable) as per service/ technical manual.
- List of important spare parts and accessories with their part number and costing.
- The entire Radiant Warmer with the bassinet including heating element, probe, acrylic side panels, rechargeable battery etc should be included in the coverage of the 2 (two) years warranty and during CMC period. The quality of the probes should be such that the life span of a probe including insulator of the wire will be at least one year in its normal use.
- Warranty should include replacement of side panels, in case of breakage during warranty period under normal handling.