Dr Baba Saheb Ambedkar Hospital
(Govt of NCT of Delhi)
Sector-6, Rohini, Delhi – 110085

Hospital Open Tender – List of Items (Pediatrics) Tender ID – 2017_BSAH_130983_5

S. No.	Name Of The Items	Specification If Any	Unit(s) required*
1	**LED PHOTOTHERAPY UNIT**	Use- For treatment of newborn infants with incurred serum Bilirubin Technical Specification: 1. Based on LED technology: Should provide that of wavelength approx 450-470 um alter filtering. 2. Minimum irradiance- 35uw/cm^2/nw at 40cm height. 3. UV should not increase 10-4n/m^2 in 180nm-400nm 4. Digital hour meter to record total exposuctive for cuvvett patient which should be clearly visible. 5. Effective light field >700 cm^2. 6. Lamp life minimum 20000 Hrs. 7. Up, down tilting should be possible & strudy. 8. LED should be protected from free fall. 9. Unit mounted on caster wheels with brakes. 10. Temperature of baby & metal surface should not exceed 40^0 C & 43^0C respectively. 11. Built in cooling fan with vents. 12. Weight less than 20kg. 13. FDA/ CE approved. 14. ISO 13485 certified manufacturer. a. Accessories i. One set of replacement tubes. ii. Two sets of fuses. iii. Total 500 Nos. of infant eye mark both for term & preterm size	**5 (Five) Units**
2	**CPAP COMPRESSOR**	Specifications: 1. It should be noise free.	**2(Two) Units**

		2. It should be heavy duty type capable of continuous working for days. 3. Should be non oiled type compressor. 4. It should be capable of delivering high, low flows.	
3	**OVER HEAD RADIANT WARMER WITH BASSINET**	Specifications: 1. It should be microcontroller based radiant warmer with manual and servo options. 2. It should have facility to display skin set, skin observed temperature in degree C and heat power separately. 3. Should have user friendly touch panel control. 4. It should have ceramic or quartz infrared or calrod heater. 5. It should have audiovisual alarm facility for overheating beyond set temperature range. 6. It should have alarm facility for patient temperature less than or greater than the required temperature i.e., above or below the set range. Machine should sense the skin probe failure and cut off the heater. 7. Warmer head should be rotatable in different direction, so as to allow taking X-ray. 8. It should have alarm for probe failure, power failure, system failure and heater failure. 9. Observation light of 90 to 100 foot candles or 1000 Lux (color temperature range 3700 K to 5100K) should be provided for inspection. 10. Battery backup for power failure indication during power fail.	**Total 07 (Seven) Units including 5 (five) Units for Peads + 02 (Two) units for Gynae dept.**

			11.The desired temperature range from 25 to 40 degree C and settable temperature can be from 32 to 38 deg C. 12.The resolution should be 0.1 degree C and accuracy should be 0.2^0C. 13.Should have a facility to lock the keyboard to avoid unwanted user modification of the set parameters. 14.The height of the warmer should be adjustable for different types of bed. 15.It should have separate bassinet trolley, bed should be tiltable and provision for X-ray cassette holder, Mattress foam density should be minimum 25 kg/ $cm^{3,}$ transparent collapsible side walls easily detached for cleaning. Mattress size should be minimum 20" x 30". 16.Should have a Feather touch operation with large digital display and comprehensive alarms. Control panel should be liquid proof and an easy and hygienic disinfection. 17.Manual mode can adjust Heater Output 10-100 % with 10 % increase an auditory and visual alarm shall be given a least every 15 min. 18.In manual mode, hater cut off / switch off, if the maximum irradiance at any point of the mattress area exceeds a total irradiance level of 10 cm (between 10 to 30 minutes). 19.Bed should be about 80 – 100 cms from the Floor and 80 90 from heat source. 20.Should have lockable castor wheels.	

		21. Green indicator light shall be provided to indicate that warmer is ready for normal use. 22.Markings on the bassinet and X-Ray cassette holder are mandatory to enable proper positioning of the baby while doing the X–Ray. 23.The size of the drop down sides should be such that it is 5" above the mattress surface and should be at least 6 mm thick ' clear and transparent. 24.If there is more that 60 % heater output for 10 minutes it should cut with alarm. 25.For the purpose of cable management there should be at least two number of tubing ports (edges covered by silicon rings) o the side walls. The height of the side walls should be minimum 110 mm over the mattress. 26.X-Ray cassette tray should be at least 750 x 350 mm and should adopt to 20 mm thick X-Ray cassette. 27.The bay bed should be crevice free ease of cleaning, infection control. 28.The mattress used should be of biocompatible material.	

			29.Thermistor based skin temperature probe should be small in size not more than 10 mm diameter and 3-4 thick to fix the probe firmly the infant. Baby contact material should be biocompatible as per ISO 10993 standard requirement. It should be insulated on one side and have well conducting non – rusting, non reacting metallic surface on other side. Probe wire should be pliable, thin and soft. The attachment site of the probe with the wire should also be pliable and non stiff.	
			30.CMC should include calibration of equipment every six months by manufacturer	
		SETTING	1. Should have Manual mode and Baby (Servo) mode settings	
			2. Mode of operation should be clearly displayed.	
			3. In servo mode baby set temperature should be 32 to 38 deg C.	
		User's Interface	Manual and Servo controlled temperature regulation.	
		Software and / or standard of communication	LED Display and inbuilt software; Interruption and restoration of the prove supply does not change the preset values.	
		Others	1. Device shall not overbalance when placed in any transport position normal use on a 10 inclined plane from the horizontal plane.	
			2. Transformers of device shall be protected against overheating in the event of short circuit or overload of any output wiring.	
			3. Patient leakage current should be less than 100 uA in normal condition.	

		4. Temperature on the baby mattress should not exceed 43 deg C when warmer is operating under steady temperature condition.	
4	**FIBREOPTIC LARYNGOSCOPE**	Specifications: Use: For use in resuscitation of new born infants & children in NICU Pead. Emergency. Technical Specifications: 1. Fibreoptic laryngoscope. 2. LED light source reusable. 3. There should be freely moving light intensifier of light from the light source through the tip of the fibre optic blade to prevent any cross contamination. 4. Blade should be inserted easily with locking mechanism when moved in to closed position. 5. Non ferrous material body & surgical quality steel blades. 6. Battery operated with rechargeable /AA batteries. 7. Supplied in protective, reusable container. Accessories: 1. 5 LED 2. Blade & size 0, 1, 2 two each 3. One extended battery.	**3 (Three) Units.**
5	**AMBU BAG 500ML & 250ML**	Specification: 1. It should be Silicolonised rubber and autoclavable 2. Should be provided with autoclavable reservoir	**10 (Ten) Nos. in Sizes 5-500ml + 5-250ml**

		3. It should be provided with siliconised rubber mask which should be autoclavable and with smooth rims and mask should be different size Preterm, term, infant paediatric 4. Should be provided with POP up value	
6	**OVER HEAD RADIANT WARMER WITHOUT BASSINET**	Specifications: 1. It should be microcontroller based radiant warmer with manual and servo options. 2. It should have facility to display skin set, skin observed temperature in degree C and heat power separately. 3. Should have user friendly touch panel control. 4. It should have ceramic or quartz infrared or calrod heater. 5. It should have audiovisual alarm facility for overheating beyond set temperature range. 6. It should have alarm facility for patient temperature less than or greater than the required temperature i.e, above or below the set range. Machine should sense the skin probe failure and cut off the heter. 7. Warmer head should be rotatable in different direction, so as to allow taking X-ray. 8. It should have alarm for probe failure, power failure, system failure and heater failure. 9. Observation light of 90 to 100 foot candles or 1000 Luc (color temperature range 3700 K to 5100K) should be provided for inspection. 10.Battery backup for power failure indication during power fail.	**06 (Six) Units**

			11.The desired temperature range from 25 to 40 degree C and settable temperature can be from 32 to 38 degC. 12.The resolution should be 0.1 degree C and accuracy should be 0.2^0C. 13.Should have a facility to lock the keyboard to avoid unwanted user modification of the set parameters. 14.The height of the warmer should be adjustable for different types of bed. 15.Should have a Feather touch operation with large digital display and comprehensive alarms. Control panel should be liquid proof and an easy and hygienic disinfection. 16.Manual mode can adjust Heater Output 10-100 % with 10 % increase an auditory and visual alarm shall be given a least every every 15 min. 17.In manual mode, hater cut off / switch off, if the maximum irradiance at any point of the mattress area exceeds a total irradiance level of 10 cm (between 10 to 30 minutes). 18.Should have lockable castor wheels. 19. Green indicator light shall be provided to indicate that warmer is ready for normal use. 20.If there is more that 60 % heater output for 10 minutes it should cut with alarm. 21.For the purpose of cable management there should be at least two number of tubing ports (edges covered by silicon rings) o the side walls. The height of the side walls should be minimum 110 mm over the mattress.	

		22.The mattress used should be of biocompatible material.		
		23.Thermistor based skin temperature probe should be small in size not more than 10 mm diameter and 3-4 thick to fix the probe firmly the infant. Baby contact material should be biocompatible as per ISO 10993 standard requirement. It should be insulated on one side and have well conducting non – rusting, non reacting metallic surface on other side. Probe wire should be pliable, thin and soft. The attachment site of the probe with the wire should also be pliable and non stiff.		
		24.CMC should include calibration of equipment every six months by manufacturer		
	SETTING	1. Should have Manual mode and Baby (Servo) mode settings		
		2. Mode of operation should be clearly displayed.		
		3. In servo mode baby set temperature should be 32 to 38 deg C.		
	User's Interface	Manual and Servo controlled temperature regulation.		
		LED Display and inbuilt software; Interruption and restoration of the prove supply does not change the preset values.		
	Others			
		1. Device shall not overbalance when placed in any transport position normal use on a 10 inclined plane from the horizontal plane.		

		2. Transformers of device shall be protected against overheating in the event of short circuit or overload of any output winding. 3. Patient leakage current should be less than 100 uA in normal condition.	
7	**SUCTION MACHINE**	1. Use: For NICU, PICU for cleaning airway. 2. 0-760 mm Hg 3. 10± mm regulable. 4. ½ HP 5. Single phase 1440 rpm motor. 6. Flutterfree volume control knob. 7. With wide mouthed 2 X 2 litre unbreakable, clear, self sealing bugs with overflow safety device. 8. Setting & user interface- Manual 9. Noise: 50db+- 3db. Only 10.CE approved. 11.CMC should include calibration of equipment every six months by manufacturer	**2 (Two) Units**
8	**LARYANGOSCOPE (PEDIATRICS)**	1. Made from surgical steel. 2. Easily removable and lockable blade. 3. Blade should be of excellent quality. 4. Light source should not obstruct in canal for passage of ET tube. 5. Should come with reusable hard case. 6. Should come with paediatric handle 7. Blade no. 00,0,1,3 8. Blade type 00,0,1-stright, 3 - curved	**6 (Six) Units**
9	**SYRINGE INFUSION PUMP**	1. Line powered as well as battery operated. 2. Should accept all standard marketed syringes from 10 ml – 100 ml.	**Total 36 units including 16 (Sixteen) Units for Peads + 20 (Twenty) for**

		3. Should provide flow rate range from 0.1 ml -200 ml in steps of 0.1/ul/hr. 4. Should be able to give bolus of different range. 5. Selectable occlusion pressures trigger level. 6. Mean pressure generated <20 Psi, 7. Alarm Occlusion alarm 8. Mean end alarm 9. Volume limit alarm 10.Power failure alarm 11.Optional- (I) log book , (II) Near occlusion display 12.FDA /CE Approved. 13.CMC should include calibration of equipment every six months by manufacturer	**Anaesthesia dept.**
10	**OXYGEN-AIR BLENDER**	1. To provide precise concentration to critical sick babies, in NICU Paeds. Emergency 2. Should have separate flow meter for oxygen &air 3. Manually adjustable FiO_2 regulator of finest quality with provision to adjust in steps of 2-5 %. 4. Should have a vac trap & nebulisation block. 5. Should be able to provide flow meter configurable with right or left angle. 6. Pole mounted 7. FDA /CE Approved. 8. CMC should include calibration of equipment every six months by manufacturer	**4 (Four) Units**
11	**STADIOMETER**	Specifications: 1. A vertical board with an attached metric ruler	**01 (One) Nos.**

		2. An early movable horizontal hard piece that can be brought into contact with superior part of the head. 3. A wire & stable platform & firm uncarpeted floor as base. 4. Easily read, stable tape 1 mm or 0.1 cm increments. 5. It is desirable that the stadiometer have a height range 70 cm– 205 cm	
12	**B.P APARATUS** **ANEROID (PEADIATRICS AND INFANT)**	B.P. Apparatus aneroid with 8" to10" dia for accurate recording of BP with Infant & pediatric cuff sizes.	**6** **(Six)** **Nos.**
13	**WEIGHING MACHINE** (Electronic)	Electronic weighing machine with digital displays maximum capacity 120kg. With last count of 100 gms. For weighing - Peadiatrics	**1** **(One)** **Nos.**

*The quantity is approximate and may vary at the time of placing orders.