



Notice Inviting e-Tender

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PROCUREMENT OF EQUIPMENT FOR 80 BEDDED NEONATAL INTENSIVE CARE UNIT (NICU) AT IPGMR, KOLKATA & 10 BEDDED NEONATAL INTENSIVE CARE UNIT (NICU) AT BERHAMPUR MCH

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL /NIT-98/2022

Dated –11.03.2022

(2nd call to Bid Reference No.: WBMSCL /NIT-453/2021 Dated –31.12.2021 for item at Sl. 1 to 4,
2nd call to Bid Reference No.: WBMSCL /NIT-427/2021 Dated –15.12.2021 for Item at Sl. No. 5 &
2nd call to Bid Number: WBMSCL /NIT-452/2021 Dated –31.12.2021 for Item at Sl. No. 6 & 7)

The following amendment has been made in the tender document,

Amendment – II

(Page No. 36, 38, 39 & 40)

Revised Specifications of T- Piece Resuscitator

- The Device should be ideal for use in Labour room, NICU and during transportation.
- It should be Powered by gas flow with no electrical or battery operation.
- It should be light weight and easy to handle.
- In-built pressure Gauge (manometer) to set & indicate delivery of PIP & PEEP.
Manometer range -10 to 80 cmH₂O(mbar)
Manometer accuracy: +-2.0 % full scale deflection.
- Peak Inspiratory Pressure (PIP) at 8 lpm : 3 to 72 cmH₂O
- Positive End Expiratory Pressure (PEEP) at 8 lpm : 0 cmH₂O to 9 cmH₂O

- Safety provision with adjustable Pressure Relief Valve for maximum limiting
- Maximum pressure relief at 8LPM : 5 to 70cmH2O
- Delivered oxygen up to 100% depending on gas supply.
- Unit should be compatible for use with neonatal mask & endotracheal tube
- The patient T-Piece should have port for surfactant delivery
- Should be compatible for use with heated humidifier.
- Spiral Heated wire circuit from OEM with integrated T-Piece compatible for use with heated humidifier should be supplied with system.
- Operating and storage limits -20°C to 50°C and Up to 90% relative Humidity
- Safety and standard : US FDA or CE (“Conformite Europeene”) from European
- Union notified body having 4 digit identification number.
- Warranty: should have warranty for 2 years.
- Supplies with each unit of infant T-piece Resuscitator Unit:
 - Test lung –One
 - T Piece Resuscitation Circuits from OEM with PEEP valve -10 piece (at least 5 pcs. Humidifier circuit)
 - Resuscitation Masks of Premature size (medium)-10 piece
 - Resuscitation Masks of Micro Premature size (small) -10 piece
 - Resuscitation Masks of term size -10 piece

Revised Specifications of Incubator Bed with Weighing Scale

Description of function: A neonatal incubator provides a closed and open care controlled environment that warms an infant by circulating heated air over the skin. The heat is then absorbed into the body by tissue conduction and blood convection. Ideally, both the skin and core temperatures should be maintained with only mirror variations.

A. Microprocessor controlled

LCD at least 10" color TFT

B. Setting of

1) Air mode servo control (30.0-37.0°C)

Override 37.0-39.0°C

Display 15.0-45.0°C

Resolution 0.1°C

Accuracy: +-0.5°C

2) Baby mode servo control (35.0-37.0°C)

Override 37.0-38.0°C

Display 15.0-45.0°C

Resolution 0.1°C

Accuracy: +-0.5°C

3) Humidity

Servo humidification

Setting range 40%-90% (in 1% increments)

Display range 0%-100%

Resolution 1%

Accuracy: +-10%

Reservoir capacity 1200 ml

Humidity to be given in vapour form and not in moisture form.

4) **Oxygen control**

Servo oxygen control

Setting range 21%-60%

Display range 21%-100%

Resolution 1%

Accuracy: +-5%

C. **Weight Scale Display** 0-7 kg

Resolution 1 gram

Accuracy +-10 gram

D. **LCD graphical Trends**

Air Temperature

Baby Temperature

Humidity

Weight

E. **Features:**

- **Double wall canopy / similar technology**
- **Light weight**
- **Chamber tilting control Angle control +- 8 or 10°**
- **Door sensing** Two door Hall sensors (Detects door is open)
- **Baby bed** : Drawable, rotatable (optional)
- **Noise Level within unit** < 60dB
- **Temperature Rise time:** 30 minutes +- 20% per 10°C
- **Air velocity over mattress** < 10 cm/ At 10 cm above the center of bed
- **Skin Temperature probe** Thermistor based Interchangeable probe Accuracy +-0.2°C
- **Over Temperature Protection** Automatic cutoff of heater 39.3°C
- **Mobility castors with brakes**

F. **Audio visual alarm**

- **Baby Temperature** –Low/High(+ -5%)
- **Air Temperature** Low/High(+ -5%)
- **Temperature probe failure / Disconnect**
- **System failure**
- **Heater failure**
- **Fan failure**
- **Low battery**
- **Main power failure**
- **Humidity** (+ -10%)
- **Oxygen** (5%)
- **Water reservoir empty**

G. **Visual indicator on LCD display**

- **Baby temperature**
- **Air Temperature**

- Set Temperature
- AC power
- Oxygen %
- Humidity %
- Door opening / similar technology

H. Canopy

Number of main door 2

Number of portholes 4

Number of tubings iris ports 1

I. Dimensions (mm) approximately

800(L) * 500(W) * 450 (H)

Infant Mattress 680 (L) * 440(W) *40(H)

Mattress to canopy height 310

Overall 1500 (L) * 850(W)

Pressure diffusion mattress with 360 degree rotating facility (optional)

J. Standard Technical requirements

Power Working voltage 110 v or 230 +/-10% VAC

Power consumption 700 W or more

Model of operation Continues

Safety class I, Type B

Fuse rating 4A (230V), 8A (110V), Fast Blow

K. Accessories Standard

- Skin temperature probe-50
- Air temperature probe-50
- Oxygen sensor (optional)
- IV pole
- Storage drawer
- 1 accessory tray
- Weighting scale
- X- ray tray

L. Environmental Operation Storage / Transportation (Standard Specification)

Temperature operation 18 to 30°C, storage 0 to 50°C

Humidity (Non-condensing) Max 95%

Air Pressure 700to 1060 kPa, Storage 500 to 1060 kPa

M. Safety and Standard: US FDA or CE ("Conformite Europeene") from European Union notified body having 4 digit identification number.

N. Warranty: Should have warranty for 2 years.

O. Mention the cost of the following separately;

- Incubator temperature probe (skin and air)