



## Notice Inviting e-Tender

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SUPPLY OF CRITICAL CARE UNIT (CCU) AND HIGH DEPENDENCY UNIT (HDU) EQUIPMENTS  
IN THE HOSPITALS AND MEDICAL COLLEGES OF THE GOVERNMENT OF WEST BENGAL.

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT- 99/2018

Dated-06.06.2018

The following amendment have been made in the tender document,

### Amendment –III (Revision of Technical Specification)

The revised technical specifications for the item is given below,

#### Non Invasive Ventilator

**1. Modes of Operation:**

- 1.1 Spontaneous
- 1.2 CPAP
- 1.3 BI-LEVEL
- 1.4 Variable apnea backup
- 1.5 During changing from one mode to the other, the machine should not be switched off.
- 1.6 Ventilatory circuit including all its parts are to be considered as non-consumables and should be supplied free of cost during warranty and CMC

**2. Product Feature:**

- 2.1 Simplified standard setting menu
- 2.2 Automatic Leak management
- 2.3 Automatic / Adjustable Breath trigger / cycle

2.4 Noiseless flow generator of less than 30Db

### **3. Technical Specification:**

#### **3.1 Performance:**

3.1.1 Operating pressure range: 4 to 25 cm H<sub>2</sub>O

#### **3.2 Dynamic pressure characteristics:**

3.2.1 S mode: IPAP: 4 to 25 cm H<sub>2</sub>O ; EPAP: 4 to 25 cm H<sub>2</sub>O

3.2.2 CPAP mode: 4 to 20 cm H<sub>2</sub>O

#### **3.3 Sound pressure level:**

3.3.1 < 30Db (tested in accordance with the requirements of ISO 17510 – 1:2002)

#### **3.4 Display:**

3.4.1 Leak

3.4.2 Pressure

3.4.2.1 IPAP

3.4.2.2 EPAP

3.4.3 Respiratory Rate

3.4.4 Minute / Tidal Volume

#### **3.5 Power Supply:**

3.5.1 220 – 240 V AC, 50 – 60 Hz

3.5.2 Battery Back-up minimum 1 hour

#### **3.6 Environmental condition:**

3.6.1 Operating Temperature – 5 – 40°C

3.6.2 Humidity – 10 – 95%

#### **3.7 Air Filter:**

3.7.1 Washable air filter

3.7.2 Filter to be changed whenever needed without disturbance to compressor

#### **3.8 Electromagnetic Compatibility:**

3.8.1 Shall meet IEC – 60601 – 1 – 2:2001 (or equivalent BIS) general requirements of safety for electromagnetic compatibility

**3.9 Should be European CE and US FDA approved.**

3.10 Warranty for 2 years and CMC for 5 years.

**Note:** Supplier should arrange for stand by machine in case the equipment is taken to the service centre for repair and calibration.