

### Notice Inviting e-Tender

## West Bengal Medical Services Corporation Limited Swasthya Sathi GN-29, Salt Lake, Sector-V Kolkata-700091

Phone No (033) 40340307/320 E mail: procurement@wbmsc.gov.in

Supply and Commissioning of different medical equipment for Critical Care Block(CCB)

project(Item category-Type A)

(Submission of Bid through online)

2<sup>nd</sup> call of Bid Reference No.: WBMSCL/NIT-175/2022(schedule-VII,VIII,X&XI); dated-18.04.2023

Bid Reference No.: WBMSCL/NIT-427/2023 Dated-26.07.2023

#### Schedule-III

#### Amendment-I

# REVISED TECHNICAL SPECIFICATION PORTABLE VENTILATOR

- 1. Should be small and portable
- 2. Should operate on built in piston or turbine assembly or pneumatic technology
- 3. Ventilator should be useful for adult & pediatric patients with in-built colour touch screen of preferably 4" or more. Display facility of loops and curves should be available.
- 4. Modes of Ventilation
- 4.1. Volume Controlled Ventilation
- 4.1.1. Assist / Controlled / SIMV
- 4.2. Pressure Controlled
- 4.2.1. Assist / Controlled / SIMV
- 4.3. CPAP/PSV
- 4.4. Non invasive

- 5. Should have back-up ventilation in all modes of ventilation with the facility to link the backup ventilation to Apnea alarm or Low Minute Ventilation Alarm or to both.
- 6. Should have PEEP compensated Inspiratory trigger in pressure (sensitivity).
- 7. The unit should be able to provide the following parameters: Tidal volume: 50 ml to 2000ml (and beyond both limits) / Respiratory rate: Up to 80 bpm or more / PEEP / CPAP: 0 to 30 Cm H20 / Pressure support: Up to 40 cm H2O or more, / Pressure Control: Up to 60 cm H20 or more/l:E ratio: 1:9.9 to 3:1/FiO2: 21 % to 100% with FiO2 monitoring and control.
- 8. It should have the following alarms with audio, visual and with message display: P max, P min, High & Low Baseline pressure, High & Low Minute Volume, Apnea, Back up ventilation alert, Device alert, Power switch over alert, Low battery, low & high FiO2.
- 9. Should have monitored data of: Inspired tidal volume, Inspired Minute Volume, Total Total respiratory rate Peak / Maximum airway pressure. Mean airway pressure, PEEP and FiO2
- 10. Patient disconnection, power failure alarms
- 11. Manual Inflation upto 2-3 seconds
- 12. Should have 100 L / min or more peak flow
- 13. Battery back up: 5 hrs or more
- 14. Battery should be rechargeable, hot swappable and life at least 8 hrs of operation or more at, normal adult ventilation settings.
- 15. Should have European CE (4 digit Notified body) / US FDA / BIS approved.
- 16. Should also operate in Air ambulances & helicopter and should have Airworthy certificate.
- 17. Should have facility to change the battery (hot swappable battery)
- 18. Should have user selectable monitored data.
- 19. European CE (4 digit Notified body) / US FDA / BIS approved Inbuilt / integrated / compatible nebulizer.