



Notice Inviting e-Tender

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

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**Procurement of Neonatal Ventilator with HFO for Pediatric Medicine in Medical College &
Hospital, Kolkata
(Submission of Bid through *online*)**

Bid Reference No.: WBMSCL/NIT-033/2025

Dated-10.01.2025

Amendment-I

Revised Technical Specification Neonatal Ventilator with HFOV

Every bidder should be fulfils all the following criteria for the above mentioned machine

1. Machine should be specifically designed for the Neonatal Patient Range.
2. It is use for both conventional ventilation as well as HFOV.
3. Mechanical ventilation of a range of patients from **300g - 10Kg body weight.**
4. **Conventional Mode Parameters:**
 - a. BPM: **2 to150**
 - b. Inspiratory Time: **0.1 to 2.0 sec**
 - c. CPAP Pressure: 0 to 20 mbar
 - d. Inspiratory Pressure: 0 to 65 mbar
 - e. FIO2: 21% to 100%
 - f. Tidal Volume **2-100 ml** with Volume Guarantee

5. HFO Mode Parameters:

- a. HFO Frequency should be wide range with 3 to 18 Hz
 - b. I:E Ratio: 1:1, 1:2, 1:3
6. Tidal Volume **2-100 ml** with Volume Guarantee
 7. Machine should have following modes CPAP, CMV **+ VG**, PTV, PSV, SIMV **+ VG** + PSV, HFO, **NIV (PC, PS, CPAP), High flow oxygen**
 8. It should have Delta Pressure of **90 mbar or more**
 9. It should have Targeted Tidal Volume Mode to give user flexibility to give Maximum Tidal volume
 10. It should have ability to pre set parameters in all modes of operation
 11. It should have active inspiration and active expiration in HFOV
 12. Machine should have powerful HFO with active expiration to cover a wide range of patients
 13. **Circuit:** Availability of reusable and disposable circuit. Same circuit use for HFO and conventional ventilation.
 14. It should be supplied with Servo heated humidifier **of US FDA / CE 4 digit notified body standard**
 15. Ventilator should be compatible with nitric oxide delivery system.
 16. **Screen Size:** minimum 12 inch size with full colour and touch screen operation
 17. Machine should have integral flow monitoring measuring lung mechanics and displaying of loops and waveforms
 18. It should have trending of measured parameters with memory of **24 hours or more.**
 19. **Machine should have pre-use / self test to check software and hardware function.**
 20. **Battery Backup:** integral battery with 60 minutes operating capability
 21. **Accessories per machine**

Sl. No.	Name of Accessories	Quantity (Nos.)
1	Complete Inter-phase kit /set for NIV and High Flow Oxygen	15
2	Type of Flow Sensor (Hot air anemometer)	
2.a	If reusable	15
2.b	If disposable	30
3	Trolley with ventilator with supporting arm from same manufacturer	1
4	Autoclavable exhalation valve / expiratory cassette	3
5	Test Lung Available	1
6	Disposable dual heated ventilator circuit	10
7	Heated ware cable set for Humidifier	2

22. The bidder should submit valid CDSCO Certificate/Registration/License for both the manufacturer(s) and importer(s) as applicable.