



Notice Inviting e-Tender

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Supply and Commissioning of different types of Medical Equipment for the Department of Paediatric at Dr. B C Roy PostGraduate Institute of Paediatric Sciences, Kolkata

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-883/2025

Dated-06.11.2025

AMENDMENT-I

Schedule-III

REVISED Technical Specification of Neonatal / Pediatric HFO Ventilator

Clinical Performance:-

It should be specifically designed for the Neonatal/Infant Patient Range.

It should have capability of mechanical ventilation of a range of patients from 300g - 30Kg body weight & HFO upto 20kg body weight.

It should have minimum 12 inch size full colour, total touch screen operation

It should have integral flow monitoring measuring lung mechanics and displaying of loops and waveforms

It should have Valveless technology (using bidirectional jets to eliminate inadvertent PEEP and total clearance of expired gases) / **inertia proportionate / piston** to reduce work of breathing

It should have HFO Mode with following parameters

ΔP in HFO - **90mbar or more**

HFO waveform, volume efficient HFO

It should have active inspiration and active expiration in HFOV

It should have HFO, CMV Modes

TECHNICAL CHARACTERISTICS

It should have Volume targeted ventilation from 2ml-300 ml

It should have Dual Limb nCPAP mode

It should have Dual Limb NIPPV mode

It should have NIV leak compensation mode

It should have optional High flow oxygen therapy facility

It should have Same Patient circuit for all therapies

It should have 3 hour backup battery/UPS, including HFO

It should use Hot wire anemometer / differential sensor, proximal to patient

It should have Proximal Pressure measurement

It should also have Pressure /flow Trigger

It should have 3-day trending (any parameter)

It should have facility to capture Screen

It should have USB port

It should have O2 Boost/Suction

It should have Non-interchangeable insp/exp circuit limbs

It should have Backup Ventilation with user adjustable rate in conventional and NIV

It should have Pressure rise time adjustment, independent of the bias flow

It preferably have the optional feature to do measurement of Spo2 and Closed loop oxygen control facility to reduce periods of hypoxaemia and hyperoxaemia Significantly and it should work In all modes including invasive and non invasive. Closed loop Oxygen control should use feedback every second.

Conventional Mode Parameters:

BPM: 1 to 150

Inspiratory Time: 0.1 to 3.0 sec

CPAP Pressure: 0 to 35 mbar

Inspiratory Pressure: 0 to 65 mbar

FIO2: 21% to 100%

Tidal Volume 2-300 ml with Volume Guarantee

HFO Mode Parameters:

HFO Frequency should be wide range with 5 to 20 Hz

I:E Ratio: 1:1, 1:2,1:3

MAP-5-40mBar

Delta P - 4-90mBar or more

It should be supplied with Servo heated humidifier.

It should have lunar/color display to reduce the light stress.

It should supply with-

1. Reusable circuit - 02 nos
2. Disposable Circuit- 20 nos
3. MR 850 Humidifier - 01 nos

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