Notice Inviting e-Tender

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Supply and Commissioning of different types of Medical Equipment for the Dept. of General Medicine at Burdwan Medical College & Hospital

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-538/2025	**Dated-23.06.2025**

AMENDMENT-I

Schedule-IV

REVISED Technical Specification of Bi-Pap Machine

1. Non Invasive Ventilator having invasive application capabilities for Adult and Paediatric usage (above 13 kgs).
2. It should be a light & compact device combining unique latest NIV features with simplicity in use.
3. **Modes of Ventilation:**
   ST (Spontaneous /Timed), PAC (Pressure Assisted Control, CPAP (Continuous Positive Airway Pressure), S (Spontaneous), T (Timed), Volume Assured Pressure Support (to ensure Alveolar ventilation)
4. Should incorporate latest algorithms for leak compensation and synchronization. Both should work together to provide control and flexibility to improve ventilation, comfort and sleep; better disease management, increased patient comfort and therapy acceptance (patient's breathing "in sync" with their device.
5. It should have colour screen for real-time monitoring to provide essential information including simultaneously viewed flow and pressure curves, the Ti- bar graph to fine-tune ventilation, and SpO2 and FiO2 monitoring option.

6. The machine should have a choice of disease specific preset value defaults (for obstructive, restrictive, normal lung mechanics and obesity hypoventilation) based on commonly used clinical values to help the users for optimising settings.
7. Should have built in internal battery for minimum 2 hours of back up time and also should have provision to add external battery.
8. Should include user adjustable alarms and essential non-adjustable, fixed alarms for patient's safety.
9. Should have Oxygen inlet port to accept higher flow up to 30 L/min of oxygen to achieve a high FiO2 with built in FiO2 monitoring.
10. It should be approved for use in invasive tracheostomy patients.
11. Data download capability-The usage and summary data for up to 365 treatment sessions and seven days of high resolution, breath-by-breath data (including SpO2 and FiO2)should be stored in the device; data can be downloaded via USB or cable, using a data management PC application.
12. It should also provide patients reminders, such as filter and mask replacements.
13. **The NIV should comply with following technical specifications:**
    a. Pressure Range: |PAP:4-40 cm H20 & EPAP: 4-25 cm H2O
    b. Ti-Control Settings: TiMax 0.1-4 sec & TiMin 0.1-T Max
    c. Respiratory Rate: 5-60 bpm
    d. Rise Time: Min. 150-900 m. Sec (approx.)
    e. Trigger and Cycle: Min. 5 sensitivity settings
    f. Adjustable Alarms: High Leak, Low Minute Ventilation, High Pressure, Low Pressure, Low /High respiratory Rate, Apnea, Low /High FiO2,Low SpO2,Non vented mask.
    g. Standard Fixed Alarms: Circuit disconnected, Over Pressure, Blocked Tube, Internal Battery Empty.
    h. Weight: Less than 3 kgs.
    i. Air Filters: Electrostatic fibre mesh
    j. Air Outlets: Compatible with ISO 5356-1:2004
    k. Power Supply: AC 100-240V, 50-60 Hz.
    l. Device DC Input: 24 V/3A
14. It should meet IEC 60601-1 Classification, Class ll (double insulation), type BF Continuous operation.
15. Should be supplied with autoclavable patient's circuit, Oxygen connector, disposable full face mask (Small &Medium) 1 each.
16. Company has to provide training to all the staff, as &when required.
17. The bidder/ OEM should have valid CDSCO Certificate/Registration/License for both the manufacturer(s) and importer(s) as applicable.