Technical Specifications

Equipment Name: Ventilator ICU

I. Ventilation modes
   1. Paediatric mode.
   2. Controlled mode.
   3. Asst. Controlled mode.
   4. Pressure Controlled Ventilation.
   5. SIMV/V and SIMV/P.
   7. CPAP and PEEP.
   8. Facility for Non-Invasive ventilation
   9. Plateau Facility

II. Ventilation parameters: -
       a. 50 to 300 ML (Paediatric PC mode).
    2. Respiratory rate  - 5 – 100 BPH.
    3. Pressure   - 0 – 100 cm H2O.
    4. Inspiratory Peak Flow - 4 – 100 1/min.
    5. Minute volume  - 1 – 30 1/min.
    6. Oxygen Concentration - 21 –100 %
    7. Inspiratory pause   - 0.1 – 5.5 sec.
    8. PEEP/CPAP   - 30 cm H2O.

III. Standard Accessories (with each machine): -
    1. Patient circuit(Adult reusable) - 2 complete set.
    2. Patient circuit (Paediatric reusable) - 1 complete set.
    3. Nebulizer Ultrasonic one - Complete set.
    4. Humidifier - 1 No.
    5. O2 Pressure Regulator with hose - 1 No.
    6. 5 meters (conversion kit)
    7. Hose for O2 connection with connector - 5 mts.
    8. Hose for compressed air with connector - 5 mts.
    9. Test lung - 1 No.

IV. Features: -
    1. Back up mode for apnea.
    2. Full alarm system for all ventilator settings and monitored values.
    3. Monitor with LCD/TFT (10” or higher size) graphical display for real
       time simultaneous display of two waveforms. Should display minimum
       3 graphs and 2 loops and may not simultaneously
4. Monitoring of both patient data and set values should be possible with trend facility.
5. Direct access to vital settings
6. Transducer should be sterilizable and reusable.
7. PEEP valve should be built in.
8. Patient circuit should have a separate inspiratory and expiratory limb.
9. Should have safety certificate from a competent authority CE / FDA (US) / STQC CB certificate / STQC S certificate or valid detailed electrical and functional safety test report from ERTL.

V. Pneumatic Gas Sources:
   1. Gas delivery system by sound less in built compressor / external integrated compressor with the unit.
   2. In case of compressor failure it should also be operable with compressed air / oxygen supply of 45 to 60 psi..

VI. Power Source: -
    220/240 V Ac 50 Hz supply.
    Internal battery (maintenance free) with 1 hour minimum operating time for the ventilator

Vii. Mounting
    Trolley/Cast mounting for easy transportation