**Ventilator with Synchronized Non-Invasive ventilator Mode:**  This should be a dedicated neonatal ventilator with flow triggering. The triggering for the nasal synchronization should be based on differential flow sensing at the nasal end. The ventilator should have following operating Non-Invasive modes; NCPAP, NIPPV, NSIPPV, NSIMV, HFNC. The ventilator should have the following invasive modes present; CPAP , IPPV, IMV, SIPPV, SIMV. The range of settings should be as follows ; Tidal Volume, 2 to 40, Inspiratory Flow 2-14 L/min, Pressure Limit 60cm H2O, Pressure Level 3-60cm (PIP) H2O, Respiratory Rate 1-120 breaths/min, Inspiration time 0.1-2 seconds, Expiration time 0.4-60 seconds, , With Inspiratory Hold/Plateau, FiO2 21-100%, , PEEP/CPAP 0-15cm H2O, With, Control panel lock. The following parameters should be displayed , Peak inspiratory pressure (PIP),Mean airway pressure (MAP),PEEP pressure, Tidal volume, Minute volume, Spontaneous minute volume, FiO2 (analyzed %), Respiratory rate, Inspiratory time, Expiratory time. High Flow Oxygen Therapy (HFNC) with the following range of settings: Flow, 2-14L/min; FiO2 21-100%. The ventilators should have following alarms; Low/high FiO2, High/low minute volume, Low inspiratory pressure, High PIP, High PEEP, Apnea, Continuous high pressure/occlusion, Breathing circuit disconnect, Others Vte high, Vte low and with equipment failure alarms like Gas supply failure, Power failure, Low battery All measurements should be at the wye piece (ET Tube, Patient end It should be There should be a display which is Color Display (TFT) 10, 4“with Touch screen. Voltage requirements: Current 230 Volts 0.25 amps 50 Watts. The internal battery should be Pb type with a reasonable backup time where the ventilator may shift to the inverter. The duration of warranty and the post warranty CMC/AMC period will have to be provided as per the hospital policy.