



MAHATMA GANDHI MISSION TRUST
MGM INSTITUTE OF HEALTH SCIENCES, CENTRAL PURCHASE DEPARTMENT (CPD)

5. (A) E-Tender for Neonatal Ventilator.

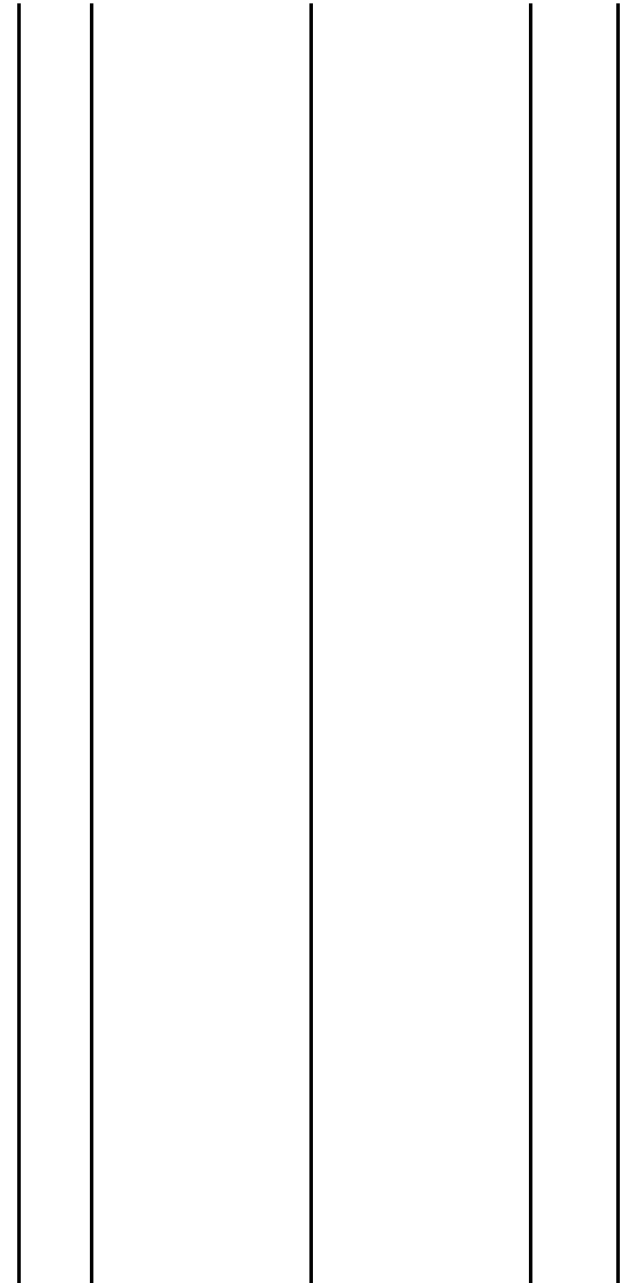
Tenders invited from reputed Manufactures or their authorised distributors / dealers of Neonatal Ventilator at MGM Hoapital, Kalamboli, Navi Mumbai and Aurangabad in the format given bellow:

Name & Address of Vendor: _____

Particular		Details of Make and Model	Req. Qty	UNIT	Rate Per Unit (Excluding GST)	Total Amount (Excluding GST)	GST%
Make			6	Nos			
Model							
Microprocessor Controlled Time Cycled Pressure Limited Ventilator							
Mode of Operation:	Electrical						
Application:	Neonatal						
Driving Gas:	Air source as in built or external compressor with facility for connecting to central compressed air pipeline. Should have automatic switch over between ventilator's inbuilt or external air source and compressed air source with priority to central compressed air source.						
	High pressure tubing for both central oxygen and compressed air. Adaptors to fit hospital connection of compressed air and oxygen to be provided.						
Humidifier	Thermostatically servo controlled with probe to monitor proximal airway temperature with alarm facility.						
	Having reusable heated wire adaptor suitable for disposable and disposable circuit.						
	Includes neonatal humidifier jar : 2 nos with each unit						
	Facility for selecting active/ passive humidification.						
	Assist control.						
	SIMV						
	SIMV +Pressure support.						
	Nasal CPAP mode						

Ventilatory Modes And Functions:	PSV (with adjustable cycle %, rise and insp. Time).	
	Inspiratory volume limit & volume guarantee / PRVC or equivalent	
	HFOV and HFOV +CMV mode	
	Adjustable flow cycled ventilation for all modes	
	User adjustable, automatic and interactive apnea back-up ventilation	
	PEEP.	
	Adjustable I:E ratio	
	Apnea back-up ventilation	
	Manual breath	
	Adjustable bias (expiratory) flow preferable	
Trigger sensitivity:	both flow and pressure adjustable.	
FIO2:	adjustable (21 – 100%) and monitored.	
	User adjustable FiO2 increment during oxygen flush for neonatal patients.	
	Synchronised nebuliser for providing in line nebulisation	
Alarms/ Indicators:	Audio &/Or Visual With Adjustable Alarm Volume	
	Power failure	
Mode of operation:	Mains/battery	
Battery:	fully charged/low.	
	Unusual / incorrect settings message	
Gas supply failure for:	oxygen and air.	
	Insp. Time limit & i:e ratio limit	
	Pressure/flow transducer [sensor] failure.	
	Triggered breath indicator.	
	Apnea.	
	High peak pressure	
Tidal volume:	high/ low	
Fio2:	high/low	
Minute volume:	high/ low.	
Airway pressure:	high/ low peak pressure	
PEEP/CPAP:	high/ low	
Breath rate:	high	
	Auto PEEP indicator	
Displays For Monitoring:	Driving gas supply pressure (air & oxygen)	
	PIFR & PEFR	
	FIO2.	
	EtCO2	
Resp. Rate:	Ventilator & patient.	
Time:	Inspiratory, expiratory, I:E ratio	

Inspired tidal volume:	ventilator – total & or per /kg, patient – total & or per /kg.	
Expired tidal volume:	ventilator – total & or per /kg, patient – total & or per /kg.	
Minute volume:	ventilator – total & or per /kg, patient – total & or per /kg.	
Airway pressures:	Pmax, Pmean & Pplateau, PEEP	
	% leak	
	Auto PEEP	
	Minimum 10" colour graphics display with adjustable scales, sweep speed & movable cursor facility and touch screen	
Waveforms:	flow, volume & pressure – airway(paw),coloured & freeze facility	
Loops:	flow/volume, paw/volume with memory, coloured & freeze facility	
	Trend of all monitored parameters for last 24 hrs.	
Compliance:	dynamic	
	Resistance	
	Work of breathing (WOB)	
Range Or Pattern For Settings:		
Fio2	: 21 to 100%.	
Inspiratory Flow rate	: 1 to 50 l/min	
Inspiratory Flow waveform	: user selectable square, decelerating	
Resp. Rate	: 1 to 130 /min.	
Insp. time	: 0.15 – 3 sec.	
Inspiratory pause time	:0.1-3 sec	
Expiratory time	: min 250 msec onwards.	
I : E ratio	: 1:1 to 1:4	
Insp. Tidal volume limit	: 0 ml to 500 ml	
PEEP	: 0 – 35 cms of H2O.	
Pressure support	: 0 – 40 cms of H2O.	
Flow cycle	: 0 to 45% of peak flow	



Ventilator & Compressor	should be from same manufacturer / OEM.					
	All Software Upgrades shall be provided free of cost.					
	All Standard Accessories should be provided with the machine.					
Power Supply:	230 v +/- 15% ; 50 Hz +/- 3% .					
	Built in facility to work over a wide range of voltage fluctuations. Each unit to be supplied with true online UPS with rechargeable battery backup upto minimum					
	one hour (internal or external) for complete system including air source (compressor).					
Consumables:	Rates will be freezed for 8 years					
	Reusable autoclavable dual limb neonatal breathing circuit with water trap.					
	Test Lung					
	Disposable circuits					
	Flow sensor					
	Humidifier jar reusable					
	Sample tubing with adaptors					
	Nasal prongs					
Training of hospital engineers & staff						
Warranty of 5 years						

Kindly email your lowest quotation as above with your terms & conditions as well as applicable brochure / catalog, user list to only etenders@mgmuhs.com

Date:	Signature of Tenderer:	Name:
		Designation:
		Email ID:
		Mobile No:
		Full Address:
	Seal:	