

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:

Assist control. SIMV

SIMV +Pressure support.

Nasal CPAP mode

Rate Per Unit **Total Amount** UNIT GST% **Particular Details of Make and Model** Req. Qty (Excluding GST) (Excluding GST) Make Model Microprocessor Controlled Time Cycled Pressure Limited Ventilator 6 Nos Mode of Operation: Electrical Application: Neonatal 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. Driving Gas: High pressure tubing for both central oxygen and compressed air. Adaptors to fit hospital connection of compressed air and oxygen to be provided. Thermostatically servo controlled with probe to monitor proximal airway temperature with alarm facility. Having reusable heated wire adaptor suitable for disposable and disposable circuit. Humidifier Includes neonatal humidifier jar: 2 nos with each unit Facility for selecting active/ passive humidification.

	PSV (with adjustable cycle %, rise and insp. Time).		
	Inspiratory volume limit & volume guarantee / PRVC or equivalent		
Ventilatory Modes And Functions:	·		
Tentilatory wodes And Functions.	Adjustable flow cycled ventilation for all modes		
		 	
	User adjustable, automatic and interactive apnea back- up ventilation		
	PEEP.		ļ
	Adjustable I:E ratio		ļ
	Apnea back-up ventilation		
	Manual breath		ļ
	Adjustable bias (expiratory) flow preferable		
Trigger sensitivity:	both flow and pressure adjustable.		
	adjustable (21 – 100%) and monitored.		
FIO2:	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		Į.
PEEP/CPAP:	high/ low		
Breath rate:	high		Ī
	Auto PEEP indicator		1
Displays For Monitoring:	Driving gas supply pressure (air & oxygen)		I
	PIFR & PEFR		
i	FIO2.		
1	EtCO2		
Resp. Rate:	Ventilator & patient.		
Time:	Inspiratory, expiratory, I:E ratio		I

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.	7
Minute volume:	ventilator – total & or per /kg, patient – total & or per /kg.	1
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	7
Loops:	flow/volume, paw/volume with memory, coloured & freeze facility	7
	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	

SIMV rate	: 1 to 120 B. P. M.]
Apnea time adjustable	: 10 to 40 sec.	1
Apnea backup rate	: 12 B. P. M. Onwards	1
Pressure trigger	: 0.1 to 10 cm H2O]
Flow trigger	: 0.1 – 10 L.P.M.	
Bias flow/base flow	: 0.4 to 5 L.P.M.	
Volume Limit	: 2ml to 500 ml For HFOV]
	frequency 3-20 Hz Amplitude 4-180 mbar MAP 0-45 mbar	 1
	I.E ratio 1 :1 to 1:3	1
	Reusable, autoclavable, dual limb (preferable) neonatal heated breathing cicuit with water trap- 2 with each ventilator.	
	Stand with support arm for breathing circuit- 1 no each	
	Test lung – 1 nos each for neonatal ventilator	1
Standard Accessories	Patient Circuit Arm -1 Oxygen & Air Hose Set - 1	-
	Disposable circuit and chamber for neonatal application, including its adaptors: 75 pieces per ventilator.	1
	Nasal CPAP prongs: 2 different sizes (5 nos each size) supply with each unit]
	Compressor -1 (230V/50 Hz) optional	 -
Flow sensor	If reusable – 4 / machine or if disposable 60/ machine	
Ventilator Trolley	should be sturdy, robust having anticorrosive coating.	
	with support arm]
CMC Should Include Following for neo		
Reusable breathing circuits :	Two no each per ventilator per year]
	Disposable breathing circuits with chambers: 60 per ventilator per year]
Flow sensors if reusable –	two each per ventilator per year] [
Humidifier jar reusable :-	2 each per ventilator per year	1 1

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		1						
	Disposable circuits		1						
	Flow sensor		1 1						
	Humidifier jar reusable		1						
	Sample tubing with adaptors]						
	Nasal prongs		1						
Training of hospital engineers & staff	•]						
Warranty of 5 years									
Kindly email your lowest quotation	as above with your terms & conditions as well as a	pplicable brochure / catalog, user list to only ete	nders@mgmuhs.com	n					
Date: Signature of Tenderer:		f Tenderer:	Name:						
	Seal:			Designation:					
				Email ID:					
				Mobile No:					
			Full Address:						