Date: 09.03. 2021

ACU/PS/PV-AHRC/Tender/ 요38 /2020-21

## TENDER NOTIFICATION

Adichunchanagiri University is inviting **closed tenders** for the supply of paediatric ventilators for the paediatric Department of Adichunchanagiri Hospital and Research Centre from the competitive firms.

1	Name of the work	Supply of paediatric ventilators for the Paediatric Department of AHRC.
2	Tender documents available for download	0 <b>9</b> -03-2021 to 19-03-2021 up to 5:00 PM

S1.	Name of the Equipment/Instrument	Quantity (in No's)
1.	Paediatric ventilator	1

**Note:** Kindly send quotes in 2 bid formats (Technical and Financial bids sealed separately inside the main envelope for individual items) to be addressed to "The Registrar, Adichunchanagiri University, B.G. Nagara -571448, Nagamangala (T), Mandya (D)".

- Adichunchanagiri University reserves all the rights to accept, reject, incorporate changes and re-tender without giving any reasons.
- The sealed cover must be duly superscripted with the name of the equipment along with the words "ACU/AHRC/Closed Tender/Ref no./Paediatric ventilator".
- Attach Brochure, Certification of the product, Bank/account details, PAN and GSTIN.
   Kindly mention the details of the contact person on the envelope

Dr. C.K. Subbaraya

Registrar
Adichunchanagiri University
B.G.Nagara-571448

## **Technical Specifications**

	PEDIATRIC VENTILATOR		
Tech	Technical characteristics (specific to this type of device)		
1	1. Should have facility for Invasive and Non Invasive ventilation		
2.	Should have facility for Invasive and Non-Invasive ventilation.		
	Microprocessor Control suitable for Pediatric ventilation;		
	Should have modes of ventilation equipped with newer modes of ventilation: 3.1) Assist/ Control		
	3.2) Volume control		
	3.3) Pressure control		
	3.4) Pressure support		
3.			
	3.5) SIMV with pressure support (Pressure and volume control) 3.6) PEEP		
	3.7) Inverse ratio Ventilation		
	3.8) Non-invasive ventilation-BIPAP, CPAP		
	3.9) Apnea ventilation, user selectable, volume & pressure control;		
	Should have built in colour screen TFT/LCD display of minimum 8"		
4.	(inch) for display of waveforms and monitored value;		
5.	Should have inbuilt facility to upgrade with EtcO2.		
	Should have facility to measure and display of the following parameters:		
	6.1) Airway Pressure (Peak & Mean)		
	6.2) Tidal volume (Inspired & Expired)		
	6.3) Minute volume (Inspired & Expired)		
	6.4) Respiratory mechanics		
6.	6.5) Spontaneous Minute Volume 6.6) Total Frequency		
•	6.7) FiO2 dynamic		
	6.8) Intrinsic PEEP		
	6.9) Plateau Pressure 6.10)Resistance & Compliance		
	6.11)Use selector Alarms for all measured & monitored parameters		
	6.12)Occlusion Pressure		
	6.13)Pressure Flow & Volume curves;		
7.	Automatic compliance and leakage compensation for circuit and ET tube;		
8.	Should have facility of log book, for events and alarms with date &		
CTV Manual Property	time;		



(Estd. under Karnataka Act No. 18 of 2013) B.G. Nagara - 571448

т	Cl. 111 f-llowing acting	
	Should have following setting;  • Tidal volume (Minimum 10ml, Maximum up to 1500ml); pre-set range for	
	paediatric modes to be provided	
* - 1	La contract to 60cm of H2O)	
	Respiratory rate 1 to 80 bpm	
9.	Apnea back up rate  ODAR/DEED	
	• CPAP/PEEP	
	• Pressure support	
	FiO2 setting range between 21% and 100%  Proceed times.	
1	• Pause time	
	Pressure/flow Trigger; 9.10)Inspiratory flow up to 120 Lpm;	
10.	central pipeline connector (to be supplied along	
10.	with the machines) should be compatible with ventilator;	
11.	Disposable Heat Moisture Exchanger, Qty 10 to be supplied with the unit.	
12.	User's interface: Manual and Automatic.	
, in other time	Software and/or standard of communication(where ever required):	
13.	Inbuilt software;	
9.0	Plant and Charge deviation	
	Physical Characteristics.	
14.	Weight (lbs, kg): <50kg including trolley.	
17.	Configuration:	
15.	Compatible hanged arm for holding the circuits	
107	Should have caster with braking system;	
17	ENERGY SOURCE (electricity, UPS)	
18.	Power Requirements: Input voltage 220 VAC, 50Hz;	
	Battery operated:	
· .	Battery powered alarm for power failure.	
19.	Battery charger to be integral to mains power supply, and to charge battery	
1	during mains power operation of unit.	
	Internal, replaceable, rechargeable battery allows operation for at least four	
	hour in the event of power failure.	
20.	Tolerance (to variations, shutdowns): Voltage corrector / stabilizer	
	to allow operation at ± 10% of 220V AC. Use of SMPS to correct voltage.	
	Protection:	
21.	• Electrical protection, resettable over current breakers or replaceable fuses	
	(fitted in both live and neutral lines)	
	• Leakage.	
22.	Power consumption: To be declared by the supplier.	



	Accessories, Spare Parts.	
23.	Accessories & Spares:  • Full face mask pedantries - 5 Nos each of 0,1 and 3  • Nasal cannula for pedantries /neonates- 5 no's  • Reusable breathing circuit of silicone material (2Nos) Disposable breathing circuit (10No.s)  • Air & oxygen hose- 1 each  • Servo controlled Humidifier-1	
	Environmental And Departmental  Considerations.	
24.	<ul> <li>Atmosphere / Ambiance (air conditioning, humidity, dust):</li> <li>Operating condition: Capable of operating continuously in ambient Temperature of 10 to 40 deg C and relative humidity of 15 to 90% in ideal circumstances.</li> <li>Storage condition: Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%.</li> </ul>	
	Standards And Safety,	
26.	Certifications:  • FDA (US) & CE (From Notified Body) from authorized third party and BIS/ISO 13485.  • Relevant IEC-60601-Part 1 & 2, certificates by a notified agency	
27.	Local and/or international: Manufacturer / supplier should have ISO certificate for quality standard.	
	Training And Installation.	
28.	Training of staff (medical, paramedical, technicians):  • Training of users in operation and basic maintenance shall be provided;  • Advanced maintenance tasks required shall be documented	
1 4 1	Warranty And Maintenance	
29.	Warranty: 3 Years.	
30.	Maintenance tasks:  • Maintenance manual detailing;  • Complete maintenance schedule;	
31.	<ul> <li>Service contract clauses, including prices:</li> <li>The spare, accessories &amp; consumables list required for maintenance and repairs in future after guarantee / warranty period should be attached</li> <li>Free servicing during warranty period;</li> </ul>	





## DOCUMENTATION

Operating manuals, service manuals, other manuals: Should provide 2 sets (hardcopy) of:-

32.

- User, technical, maintenance and service manuals to be supplied along with machine diagram
- List of equipment and procedures required for routine calibration and maintenance.

Dr. C.K. Subbaraya

Registrar

Adichunchanagiri University B.G.Nagara-571448