



## Notice Inviting e-Tender

**West Bengal Medical Services Corporation Limited**

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**Supply and Commissioning of different medical equipment for Department of Neuro OT and ICU at Bangur Institute of Neurosciences, Annex-I, IPGME&R SSKM Hospital**

(Submission of Bid through *online*)

**Bid Reference No.: WBMSCL/NIT-069/2024**

**Dated-19.01.2024**

### **AMENDMENT-I**

#### **Schedule-III**

## **REVISED TECHNICAL SPECIFICATION**

**Anesthesia workstation - pediatric and neonatal compatible**

<b>Parameter / Feature</b>	<b>Threshold Limit / Range</b>
Battery back up in minutes	At least 90 mins.
Gas flow in liter	(0.10 - 12) or more
Vaporiser flow range in liter/minutes	(0.2 -15) or more
Vaporiser chamber capacity in ml.	200 or more

Parameter / Feature	Threshold Limit / Range
Ventilator TFT displays size (diagonal) in inch.	15 or more
Ventilator Tidal Volume in ml.	(20 -1400) or more
Ventilator frequency in breaths/minutes	(4 - 50) or more
Ventilator I:E ratio	(2:1 - 1:4) or more
Ventilator inspiratory pause in % of Time	0-60
Ventilator PEEP in cm H2O	(0 / off -30) or more
Ventilator pressure limit in cm H2O	(10-60) or more
Sodalime capacity in liters	1 or more
Drawers non lockable	2 or more
Provision for AGM (in-built or external)	Mandatory
Patient category selection method	Adult, Pediatric and neonatal
Provision for vaporizers should be of same manufacturer	2 (Sevoflurane and desflurane)
Touch screen, Electronic Gas Mixing	
<b>MUST HAVE SPECIFICATION</b>	

Parameter / Feature	Threshold Limit / Range
Parameter / Feature	Yes
Provision for delivery of oxygen, nitrous oxide and medical air [2 oxygen ( 1 Pipeline supply + 1 cylinder), 2 nitrous ( 1 Pipeline supply + 1 cylinder) and 1 air ( 1 Pipeline supply )]	
Circle absorber, ventilator and vaporizer ( Universal Sodaline) FiO <sub>2</sub> and ETO <sub>2</sub> paramagnetic monitor	
Independent attachments and auto-switching facility for connecting central gas and pin indexed cylinders & DISS	
Non interchangeable pipe line hose	
Large size pressure gauge / Digital Display	
Integrated independent oxygen flow meter	
Quick availability of gases on the time of machine on/off	
Selector switch should be there for open and close circuit, bag to ventilator.	
The common gas outlet mounted at front of the machine	
Writing table/work surface	
Top shelf	
N <sub>2</sub> O cut off facility if O <sub>2</sub> supply fails	
O <sub>2</sub> failure alarm both visual and audible	
Availability of O <sub>2</sub> flush (20-75 Litres.) bypassing vaporiser	
Visual display of individual gas	
Maintenance free vaporiser for the life of the product	
Pneumatically / Electrically driven and electronically controlled Ventilator	
Control of ventilator parameter by touch screen and rotary dial	
Availability of VCV, PCV, SIMV, spontaneous/pressure support, manual modes. Peak Pressure and Plateau Pressure should be visible in display	
Flow triggered (0.3 – 10 liters) assist mode	
Leak compensation should be visible in the display ( leak test should be user friendly)	
User adjustable alarms for major parameters	
User adjustable apnea alarms	
Display of patient loop (Pressure & Volume) and wave form (flow /volume and air way pressure), CO <sub>2</sub> wave form.	
Display of compliance and resistance	
Separate flow sensor for inspiratory and expiratory	

Parameter / Feature	Threshold Limit / Range
breathing path	
Reusable & autoclavable type volume measurement sensor	
Latex free and autoclavable breathing system except O2 sensor with musk & HME filter : Adult: 2 nos., Paediatric: 2 nos. and Neonates 2 nos. & disposable 50 for each (Mask 0-5 all size - 2 each) (Breathing Bag (0.5 L-3 L) all size - 2 each) <b>Disposable breathing circuit (Pediatric and Adult) - 25 nos. each</b>	
EtCO <sub>2</sub> Sampling Line with T Connector for side stream: 50 nos. <b>Water trap - 2 boxes</b>	
Acceding and clearly visible Bellows	
Provision for low flow anaesthesia	
Paramagnetic O2 sensor	
<b>In case of complete power supply and battery failure machine should capable of delivering O2 and Anesthetic Agent for manual ventilation</b>	
Anaesthesia Gas Monitoring Module ; USFDA / European CE ( 4 digit notified body) / BIS	
<b>Multi Para Monitor (from same manufacturer)</b>	
<b>Screen Size 15 inch or more (TFT LED screen)</b>	
<b>Suitable adult pediatric and neonatal patient monitoring</b>	
<b>Should monitor ECG, respiration, NIBP, SPO2, dual temperature ( core and skin) , three IBP</b>	
<b>Monitor access should be with Touch screen , rotary and fastest key for quick function</b>	
<b>Monitor should have USB port for Software up gradation.</b>	
<b>Should have 2 hours or more battery backup</b>	
<b>Difib and ESU protection should be present</b>	
<b>NMT monitor (Stand alone / Module) with color display and operatable with rotary knobe , Should be able to show numerical and graphical measurements</b>	
<b>Accessories :</b> <b>ECG respiratory, SPO2, dual temp, NIBP, three IBP, in-built battery-1 no,</b> <b>5 LEAD ECG cable - 1 no</b> <b>ECG disposal electrodes - 30nos.</b> <b>SpO2 finger sensor -for adult padiatric and neonate 1 no each</b> <b>Skin and core temperature probe - 1 no each</b>	

Parameter / Feature	Threshold Limit / Range
<b>NIBP Hose - 1 no</b> <b>Adult, Padiatric and Neonate Cuff - 1 no each</b> <b>Intermediate IBP cable - 2 nos</b> <b>Disposable transducer - 10 nos.</b> <b>CO monitoring access - 1 no.</b> <b>BIS / Entropy - 1 no</b>	
<b>Electrical Safety and Quality Certification</b>	
Standard & safety certification (European CE ( 4 digit notified body) / US FDA approved / BIS)	