



Notice Inviting e-Tender

West Bengal Medical Services Corporation Limited

Swasthya Sathi

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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

Parameter / Feature	Threshold Limit / Range
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	
MUST HAVE SPECIFICATION	

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 ₂ and ETO ₂ 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 ₂ O cut off facility if O ₂ supply fails	
O ₂ failure alarm both visual and audible	
Availability of O ₂ 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 ₂ 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) Disposable breathing circuit (Pediatric and Adult) – 25 nos. each	
EtCO ₂ Sampling Line with T Connector for side stream: 50 nos. Water trap – 2 boxes	
Acceding and clearly visible Bellows	
Provision for low flow anaesthesia	
Paramagnetic O2 sensor	
In case of complete power supply and battery failure machine should capable of delivering O2 and Anesthetic Agent for manual ventilation	
Anaesthesia Gas Monitoring Module ; USFDA / European CE (4 digit notified body) / BIS	
Multi Para Monitor (from same manufacturer)	
Screen Size 15 inch or more (TFT LED screen)	
Suitable adult pediatric and neonatal patient monitoring	
Should monitor ECG, respiration, NIBP, SPO2, dual temperature (core and skin) , three IBP	
Monitor access should be with Touch screen , rotary and fastest key for quick function	
Monitor should have USB port for Software up gradation.	
Should have 2 hours or more battery backup	
Difib and ESU protection should be present	
NMT monitor (Stand alone / Module) with color display and operatable with rotary knobe , Should be able to show numerical and graphical measurements	
Accessories : ECG respiratory, SPO2, dual temp, NIBP, three IBP, in-built battery-1 no, 5 LEAD ECG cable – 1 no ECG disposal electrodes – 30nos. SpO2 finger sensor –for adult padiatric and neonate 1 no each Skin and core temperature probe – 1 no each	

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