



Notice Inviting e-Tender

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Supply and Commissioning of Anesthesia work station with facilities of Neonatal anaesthesiology for the Department of Bangur Institute of Neuroscience-Annex of IPGME&R-SSKM Hospital

(Submission of Bid through *online*)

2nd call of Bid Reference No.: WBMSCL/NIT-120/2024; dated-15.02.2024

Bid Reference No.: WBMSCL/NIT-263/2024

Dated-06.05.2024

Amendment-I

TECHNICAL SPECIFICATION

Anaesthesia work station with facilities of Neonatal anaesthesiology

Parameter / Feature	Threshold Limit / Range
Battery back up in minutes	At least 90 mins.
Gas flow in liter	(0.10 - 12) or more
Vaporizer flow range in liter/minutes	(0.2 -15) or more

Parameter / Feature	Threshold Limit / Range
Vaporizer chamber capacity in ml.	200 or more
Ventilator TFT displays size (diagonal) in inch.	15 or more (higher size will be preferred)
Ventilator Tidal Volume in ml.	(5 -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 H ₂ O	(0 / off -30) or more
Ventilator pressure limit in cm H ₂ O	(10-60) or more
Soda lime capacity in liters	1 or more
Drawers non lockable	1 or more

Parameter / Feature	Threshold Limit / Range
Provision for AGM (in-built or external)	Mandatory
Provision for vaporizers should be of same manufacturer	2
Vaporizers(Sevoflurane & Desflurane) should be supplied with each machine	Mandatory
Connectivity must be possible between anesthesia machine and the patient monitor	Mandatory
Touch screen, Electronic Gas Mixing	
MUST HAVE SPECIFICATION	
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 Soda lime) 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	

Parameter / Feature	Threshold Limit / Range
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 (25-70 Litres.) bypassing vaporizer	
Visual display of individual gas	
Maintenance free vaporizer 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.	

Parameter / Feature	Threshold Limit / Range
Peak Pressure and Platue 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), CO2 wave form.	
Display of compliance and resistance	
Separate flow sensor for inspiratory and expiratory breathing path- 1 expiratory and 1 inspiratory valve	
Reusable & autoclavable type volume measurement sensor	
<p>Latex free and autoclavable breathing system except O₂ sensor,</p> <p>Breathing Circuit : Adult - 2 nos., Paediatric - 2 nos. and Neonates - 2 nos. & HME filter - 50 numbers,</p> <p>Mask 0-5 all size – 2 each</p> <p>(Breathing Bag (0.5 L-3 L) all size - 2 each)</p>	
EtCO ₂ Sampling Line with T Connector for side stream: 50 nos.	

Parameter / Feature	Threshold Limit / Range
Acceding and clearly visible Bellows	
Provision for low flow anaesthesia	
Paramagnetic O2 sensor	
Water trap – 24 numbers	
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	
<p>Accessories :</p> <p>ECG respiratory, SPO2, dual temp, NIBP, three IBP, in-built battery-1 no, 5 LEAD ECG cable – 1 no</p> <p>ECG disposal electrodes – 30nos.</p> <p>SpO2 finger sensor –for adult padiatric and neonate 1 no each</p>	

Parameter / Feature	Threshold Limit / Range
Skin and core temperature probe – 1 no each 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 BIS electrode – 25 Pieces	
Electrical Safety and Quality Certification	
Standard & safety certification (European CE (4 digit notified body) / US FDA approved / BIS)	