Notice Inviting e-Tender

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Supply and Commissioning of Anaesthesia Workstation for R.G.KAR MCH

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-498/2022	Dated-21.11.2022

Amendment-II

Revised Technical Specification

Anaesthesia Work Station

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

Ventilator TFT displays size (diagonal) in inch.	10 or more (higher size will be preferred)
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
Provision for vaporizers should be of same manufacturer	2
Electronic Gas Mixing	Optional
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 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_2O cut off facility if O_2 supply fails	
O2 failure alarm both visual and audible	
Availability of O2 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 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	
Reusable & autoclavable type volume measurement sensor	
Latex free and autoclavable breathing system except O5 sensor with musk & HME filter : Adult: 5 nos., Paediatric: 5 nos. and Neonates 5 nos.	
$EtCO_2$ Sampling Line with T Connector for side stream: 50 nos.	

Acceding and clearly visible Bellows	
Provision for low flow anaesthesia	
Paramagnetic O2 sensor	
Anaesthesia Gas Monitoring Module ; USFDA / European CE (4 digit notified body) / BIS	
Electrical Safety and Quality Certification	
Standard & safety certification (European CE (4 digit notified body) / US FDA approved / BIS)	