



## 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-I

### 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.	12 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 H <sub>2</sub> O	(0 / off -30) or more
Ventilator pressure limit in cm H <sub>2</sub> O	(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
<b>MUST HAVE SPECIFICATION</b>	

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) $\text{FiO}_2$ and $\text{ETO}_2$ 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	
$\text{N}_2\text{O}$ cut off facility if $\text{O}_2$ supply fails	
$\text{O}_2$ failure alarm both visual and audible	
Availability of $\text{O}_2$ 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 <sub>2</sub> 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 O <sub>5</sub> sensor with mask & HME filter :  Adult: 5 nos., Paediatric: 5 nos. and Neonates 5 nos.	
EtCO <sub>2</sub> 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	
<b>Electrical Safety and Quality Certification</b>	
Standard & safety certification (European CE ( 4 digit notified body) / US FDA approved / BIS)	