



## Notice Inviting e-Tender

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SUPPLY AND COMMISSIONING OF MEDICAL EQUIPMENT AT MEDICAL COLLEGE AND HOSPITAL OF THE GOVERNMENT OF WEST BENGAL (Group 1).

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT- 216/2018

Dated-12.10.2018

The following amendments have been made in the tender document,

### Amendment –IV (Revision of Technical Specification)

The revised technical specifications for the item is given below,

#### Anaesthesia Work Station:

Parameter / Feature	Threshold Limit / Range
Battery back up in minutes	60 or more
Gas flow in liter	(0.15 - 10) or more
Vaporiser flow range in liter/minutes	(0.2 -15) or more

Vaporiser chamber capacity in ml.	225 or more
Ventilator TFT display 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 - 1:3) or more
Ventilator inspiratory pause in % of Time	0-60
Ventilator PEEP in cm H2O	(0-20) or more
Ventilator pressure limit in cm H2O	(5-60) or more
Sodalime capacity in liters	(1-2) or more
Drawers non lockable	2 or more
Provision for vaporisers	2 or more
<b>MUST HAVE SPECIFICATION</b>	
<b>Parameter / Feature</b>	<b>Yes / No</b>
Provision for delivery of oxygen, nitrous oxide and medical air	
Circle absorber, ventilator and vaporiser	
Independent attachments for connecting central gas and pin indexed cylinders	

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	
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 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	
Flow triggered (0.3 – 10 liters) assist mode	
Leak compensation	
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 O2 sensor with mask: Adult: 2 nos. and Paediatric: 2 nos.	
EtCO <sub>2</sub> Sampling Line with T Connector for side stream: 50 nos.	
Upside down and clearly visible Bellows	
Provision for low flow anaesthesia	
Paramagnetic O2 sensor	
Anaesthesia Gas Monitoring ; The monitor may be European CE approved	
Double mounted Precision Vaporizers (Temperature and flow compensated) for Sevoflurane and Isoflurane. Vaporizer should be US FDA of the same OEM.	
<b>Electrical Safety and Quality Certification</b>	
Standard & safety certification (European CE & US FDA approved)	