



Notice Inviting e-Tender

West Bengal Medical Services Corporation Limited
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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 –II (Revision of Technical Specification)

The revised technical specifications for the item is given below,

VENTILATOR :

Parameter / Feature	Threshold Limit / Range
Ventilator display size (diagonal) in inch	8 or more
Ventilator Tidal Volume in ml	(30 - 2000) or more
Pressure (Insp.) in cm H ₂ O	(0-60) or more
Respiratory Rate breaths per minute	(4 - 60) or more
PEEP in cm of H ₂ O	(0 - 20) or more
FiO ₂	0.2 - 1
Pause time in percentage of breath cycle time.	(0-30) or more

Pressure Trigger in cm of H ₂ O OR Flow Trigger in LPM	(0-20) or more OR (0.5 – 6) or more
Inspiratory rise time in percentage of breath cycle time or equivalent in second.	0-20
I:E ratio with provision for inverse ratio ventilation.	1:1.5 – 1:3
Ti equivalent time in percentage of breath cycle time	10-80
Peak Output Flow IN LPM	140 or more
MUST HAVE SPECIFICATION	
Parameter / Feature	Yes / No
The ventilator should be compressor / turbine driven. It should have US FDA approved Compressor / turbine.	
Monitoring of the following parameters : Airway Pressure (Peak, Plateau & Mean) , Tidal Volume (inspiratory & Expiratory)	
Alarms for all measured & monitored parameters	
Modes of Ventilator : Volume Cycled Ventilation : Assist / Controlled / SIMV, Pressure Controlled: Assist / Controlled / SIMV, CPAP/PSV	
Advanced modes of Ventilation: Lung Protection APRP, PRVC	
Apnea / Back-up ventilation	
Audio visual alarm for: Airway Pressure ,High continuous Pressure , FiO ₂ ,Expired minute volume, Apnea , End expiratory pressure , Respiratory rate , Gas Failure	
Automatic Patient Detection facility.	
Suitable for adult & pediatric age group patients.	
Hinged arm holder for holding.	
Automatic compliance & leakage compensation for circuit and artificial airway.	
Inbuilt nebulizer facility	
Consumable	
Breathing Circuit (Autoclavable) Adult : 2 nos.	

Paediatric : 2 nos.	
Electrical Safety and Quality Certification	
Standard & safety certification (European CE and US FDA approved)	
Parameter / Feature	Threshold Limit / Range
Monopolar outputs low cut for delicate tissue maximum power in watt	300
Monopolar outputs pure cut for clean, precise cut maximum power in watt	200
Monopolar outputs blend mode for cutting maximum power in watt	200
Three coagulation modes maximum power in watt	120
Two/Three Bipolar mode power in watt	70 or more
Tropicalization operating temperature in degree centigrade	UPTO 40
RF leakage current in mA	150 or less
MUST HAVE SPECIFICATION	
Parameter / Feature	Yes / No
Microcontroller based isolated electrosurgical generator having both monopolar and bipolar outputs	
Smart generator should be able to monitor changes in tissue impedance continuously and adjust power	
Three coagulation modes desiccate mode, fulgurate mode, spray mode	
Two/Three bipolar modes precise mode, standard mode, macro mode	
Patient plate monitoring facility and should give audiovisual alarm	
Deactivate output if contact between patient and patient plate	
Two hand switching and two footswitch monopolar output and one of both bipolar output	
Membrane keyboard for power setting	
Individual digital display of power for bipolar monopolar cut and monopolar coagulation	
Power adjustable up to 5% or 5 w whichever is greater	
Foot switch-2 nos., Diathermy trolley	
The following items should be supplied with the	

<p>equipment: Long Spatula Electrode -150 nos., Disposable pad-100 nos. (Adult-60 nos., Paediatric-30 nos. & Neonates-10 nos.), Pencil with electrode-100 nos., Bipolar Forceps-20 nos., Disposable Bipolar cable-100 nos. bidders should quote the rates in the BOQ for future requirement. The cost of the consumables will be considered during financial evaluation of the bid. The consumables should be European CE and US FDA approved. The consumables or its upgraded version should be available for 7 years</p>	
<p>Electrical Safety and Quality Certification</p>	
<p>European CE & US FDA approved</p>	