

# Notice Calling for Quotation/Tender

OFFICE OF THE SUPERINTENDENT  
J.N. MEDICAL COLLEGE HOSPITAL  
ALIGARH MUSLIM UNIVERSITY,  
ALIGARH

No. Ext 4902 /MCH

Dated 23.11.2015

M/s.....

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Sealed Quotations/Bids (One Technical and One Financial separately) are invited from manufacturers or their authorized dealers for the following equipments which should be sealed by the tenderers in separate covers duly super scribed and both these sealed covers are to be put in a bigger cover, which should also be sealed and duly super scribed, on the terms and conditions printed on Page No. 3.

Quotations should reach this office on or before 14.12.2015 by 03:00 P.M.

## Anaesthesia Workstation

### 1. General Requirement

- Compact and modular, three gas Anaesthesia workstation with an integrated piston ventilator for adult to infants.
- The machine should be suitable for low and minimal flow anesthesia application with compliance compensation of breathing ckt, fresh gas flow compensation/ decoupling.
- The system should have upto 60mins. battery backup

### 2. Gas delivery system

- Should have pin index yokes for Oxygen & Nitrous Oxide besides separate connection for Central gas supply for Oxygen, Nitrous Oxide and Air.
- The system should be suitable to use at minimal flow upto 700ml fresh gas setting.
- Automatic cutoff of N2O by Oxygen pressure failure.
- Hypoxic guard for linear regulation of minimum oxygen concentration at 23% volume.
- Emergency Oxygen flush at 30 – 70 L/min bypassing the vaporizer.
- Ambient air ventilation in case of total gas supply failure

### 4. Flow meter

- Dual Cascade type flow meter tubes for Oxygen & N2O. Range 20 ml / min to 10 Lit/min. Calibrated in multiple scales. Single tube for air 100 ml to 14 L/ min.

### 5. Vaporizer

- Should be capable of connecting Vaporiser. for Isoflourane / Sevoflourane / Halothene / Desflourane Vaporizer
- The vaporiser should require no calibration in its life time.

### 6. Breathing System

- Should have change over from Spontaneous to Bag ventilation with single step.
- Should have compact breathing system with approx 1.7 Ltr. Volume capacity.
- The system should have integrated breathing system warmer to prevent condensation in breathing system and patient comfort (to prevent delivery of dry fresh gases to lungs or mucocilliary transport of fresh gas)
- The device should have port for anaesthesia gas scavenging system.

### 7. Anaesthesia Ventilator

- The system should have inbuilt ventilator with electronically controlled and pneumatic or Piston driven technology.
- Modes: Manual/Spont, Volume controlled, Pressure controlled, , SIMV/PS,
- PEEP : 0 ~ 20 mbar
- Should have Desflurane compensation.
- Should be able to ventilate with atmospheric air, in case of total gas supply failure.

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**8. Alarm limits & alarms**


- Adjustable high / low limits with audio and visual alarms for the following :  
Audio power supply fail alarm,

**9. Machine should have RS 232 connectivity port**

**10. Scope of supply**

- Trolley with 3 drawers
- Pin Index yokes for O<sub>2</sub> & N<sub>2</sub>O
- Pipeline connections for all three gases
- Anaesthesia ventilator
- Isoflourane Vaporiser
- Sevoflourane Vaporiser
- Semiclosed breathing system
- Adult & Peadiatric autoclavable patient tubings
- Reusable autoclavable microbial filter (5 nos.)
- Extra pack of 5 flow sensors
- Disposable patient circuit – 50 pcs.

**11. Warranty 03 years**

  
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