

# Notice Calling for Tender

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

No. Ext .....<sup>19178</sup>...../MCH/SHAKEB

Dated.....<sup>13-01-2018</sup>.....

M/s.....

.....

.....

Sealed Quotations/Bids (One Technical and One Financial separately) are invited from manufacturers or their authorized dealers for the following Item 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 as mentioned on page No.2

Quotations should reach this office on or before 27.01.2018 by 3:00 P.M.

## ICU Ventilator with NIV with the following Specification

1. Advanced technology ventilator for use in ICU, suitable for ventilating all categories of patients from paed. to adults.
2. Multi microprocessor controlled system with individual selection of various ventilation parameters & PEEP. The Ventilator should be US FDA and European CE approved.
3. Should have Monitoring & display of all measured & calculated values and Air way pressure- Peek, mean, Peep, plateau; tidal volume (expired); minute volume-total & spontaneous, Leakage minute volume MVleak, total respiratory rate, spontaneous and mandatory respiratory rate.
4. The system should have the facility for the flow triggering or pressure triggering.
5. Non invasive ventilation should be possible with all the modes mentioned below.
6. Should have the following modes of ventilation:
  - a. Volume control/Assit control+Pressure support
  - b. Pressure control/IPPV
  - c. CPAP/Pressure Support
  - d. Apnea Ventilation-Time cycled
  - e. SIMV (Volume Control)+Pressure Support
  - f. BIVENT/BIPAP + Pressur esupport
7. Should have following settings & features:-
  - a. Tidal Volume:50 to 2000 ml (in volume controlled modes)
  - b. Audio-visual alarms for limit violations
  - c. I:E Ration 1:150 to 150:1
  - d. Maximum continuous Flow for press assists/spont breath upto 250 LPM
  - e. Valve response time less than 5msec
  - f. Graphical and tabular trends for 24 hours for monitored parameters
  - g. Facility of sigh breaths
  - h. Calculated values like RSBi, Resistance and Compliance
  - i. Special Procedures like Intrinsic PEEP, Expiratory hold and inspiratory hold should be available
  - j. Oxygen suction procedure allowing 100% oxygenation during pre and post suction should be available
  - k. All modes should have automatic compliance and leak compensation
8. It should be possible to display at least two types of waveforms and Screen should display following waveforms:
  - Flow Vs Time
  - Pressure Vs Time
9. Air source should be supplied along with the ventilator. The compressed air source/compressor/turbine should be from the same manufacturer
10. In case of oxygen failure it will continue to ventilate the patient with air
11. In case of external power failure it will continue to ventilate the patient on internal backup battery for minimum of 30 minutes including compressed air source
12. All the components of the system including Compressed Air source, Ventilator trolley and hinged arm will be from the same manufacturer. The machines will be supplied complete with all the required power cords, patient circuits for both Adult and paed. uses with appropriate masks and connectors, user manual etc. in ready to use condition
13. One set each auto-clavable silicon patient tubes for Adult & paediatric should be supplied with the system. Should also be supplied with 50 disposable Adult and 25 disposable paediatric circuits be supplied as standard. All accessories should from the same manufacturer
14. Should have two nos. Auto-clavable & Reusable Expiration Cassette/valves for complete disinfection capability. Company should also quote an additional 20 Expiration Cassette/valves for highly infectious patient. Also a minimum of 10 nos. flow sensors should be supplied with the ventilator
15. Should have facility for ventilation data transfer & network connection
16. Should have Resuable inspiratory synchronised nebulizer

Continued on Page No.2

