



RAJASTHAN MEDICAL SERVICES CORPORATION LTD.

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क्रमांक F-80 RMSC/EPM/M-2/2014 /NIB 61/

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CLARIFICATION/CORRIGENDUM/ADDENDUM

Subject: -Revised technical Specifications and other terms and conditions of Bid document VENTILATOR (ADULT, PAEDIATRIC AND NEONATAL) under NIT F-8() RMSC/EPM/M-2/2014 /NIB 61/7251 Dated: 23.12.2014

In Reference to subject cited above and NIB-61, the various representations received from the firms and issues raised by the Bidders are examined by the competent Authorities and technical committee. The following Corrigendum/Addendum is issued for inclusion in bid document & Technical Specification of items (Section-V, Schedule of Supply, Point no. 3) as below:-

Revised SPECIFICATIONS OF VENTILATOR (ADULT, PAEDIATRIC AND NEONATAL)

Operational Requirements:

1. It should be microprocessor Controlled ventilator with integrated facility for Ventilation monitoring suitable for Neonatal to adult ventilation.
2. The unit should be external compressor based for precise gas delivery (not a turbine / piston/ blower based).
3. Demonstration of the equipment is a must.

Technical Specifications:

4. Hinged arm holder for holding the circuit
5. Should have integrated Colored Touch screen, 12 Inch or more
6. It should have inbuilt facility to measure and display for all patient category (Adult to neonatal)
 - a) 3 waves- Pressure and Time, Volume and Time and Flow and Time.
 - b) 3 loops- P-V, F-V, P-F with facility of saving of Loops for reference.
 - c) Status indicator for Ventilator mode, Battery life, patient data, alarm settings, clock etc.
 - d) Simultaneous display of set and exhaled parameter, 2 waveform and 2 loops and Alarm
7. should have Trending facility for 24 hours or more
8. should have Automatic compliance & Leakage compensation for circuit
9. Should have Following settings for all age groups.
 - a) Tidal Volume 5 ml to 1500 ml
 - b) Pressure (insp) 2- 80 cmH₂O
 - c) Pressure Ramp / Flow patterns
 - d) Respiratory Rate 1 to 150 bpm, Insp. Time 0.1 to 3 sec, I : E Ratio 5:1 to 1:5
 - e) CPAP/PEEP 0-40 cmH₂O
 - f) Pressure support 2-80 cm H₂O
 - g) FIO₂ 21 to 100%
 - h) Pause Time 0 to 2 sec
 - i) Flow Trigger 0.2 to 15 lpm
10. Should have ,monitoring of the following parameters
 - a) Airway Pressure (Peak & Mean)
 - b) Tidal volume (Inspired & Expired)
 - c) Minute volume (Expired)
 - d) Spontaneous Minute Volume
 - e) Total Frequency
 - f) FIO₂
 - g) Intrinsic PEEP
 - h) Plateau Pressure
 - i) Resistance & Compliance
 - j) Use selector Alarms for all measured & monitored parameters
11. Should have following modes or equilant modes of ventilation
 - a) Volume controlled
 - b) Pressure Controlled
 - d) SIMV (Pressure Control and volume control) with pressure support

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- e) CPAP/PEEP, PSV + assured tidal volume / guarantee
- g) Any advance mode like pressure controlled volume guaranteed / PRVC / AUTOFLOW or equivalent
- h) TCPL with continuous flow for neonates
- i) Non Invasive ventilation including Nasal CPAP for neonates.
- 12. should have Apnea /backup ventilation
- 13. Expiratory block should be autoclaveable and no routine calibration required
- 14. Should have ,monitoring of the following parameters
 - a. Occlusion Pressure(P0.1) , Max Inspiratory pressure (Pi max)
 - b. RSBI , Imposed work of Breathing (WOBi)
- 15. should have integrated (in-built) nebuliser or synchronized ultrasonic nebuliser with capability to deliver fine particle On line"
- 16. should have integrated Battery backup for minimum 2 hour for main unit

System Configuration Accessories, spares and consumables:

- 17. ICU Ventilator mounted on trolley
- 18. Adult , Paediatric , Neonatal autoclavable silicone patient breathing circuits -02 each
- 19. Reusable and autoclavable Flow sensor and exhalation valve/ expiratory cassette - 4 nos each. The expiratory flow sensor and valve should have 5 years complete replacement (free of cost)
- 20. Hinged Support Arm - 1no
- 21. Air and Oxygen Hose - each 1 no
- 22. Medical Air Compressor , with CE mark
- 23. Reusable Masks (Small, Medium, Large) with each machine.- 01 set each
- 24. Humidifier -Servo controlled with digital monitoring of inspired gas temperature -01 . All accessories required like temp. probe , heating wire , draw, chamber etc - each 1 no.

Standards, Safety and Training:

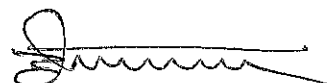
- 25. Should be USFDA/European CE approved product. The supplier must be ISO certified company.
- 26. Demonstration of quoted equipment model is a must.
- 27. Should have local service facility .The service provider should have the necessary equipments recommended by the manufacturer to carry out preventive maintenance test as per guidelines provided in the service/maintenance manual.
- 28. Should have Three year guarantee and provision for next five year Comprehensive Annual Maintenance Charges.
- 29. CMC: CMC shall be given @ 4 % of net rate (inclusive of Excise Duty & exclusive of VAT/CST etc.) plus service tax (as applicable) and yearly escalation of 5 % on last year's CMC price. The CMC may be awarded for five years (on yearly basis) after Guarantee period of three years.

The last date for sale of bid, receipt of bid & date of opening of technical bid is hereby extended as below:-

Extended Dates		
Last Date for Sale of Bid Form	Last Date of Receipt of Bid Form	Date of opening of Technical bid
1.	2.	3.
18.3.2015 11:00 AM	18.3.2015 01:00 PM	18.3.2015 03:00 PM

Please note that all above clarification/amendment/corrigendum in technical specifications/bid conditions is the integral part of the bid document. This corrigendum/ addendum should be signed and annexed with bid document.

All other terms & conditions remains the same.
This bears the approval of M.D., RMSCL, Jaipur.


Executive Director (EPM)
RMSC, Jaipur