

Notice Inviting e-Tender

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SUPPLY OF CRITICAL CARE UNIT (CCU) AND HIGH DEPENDENCY UNIT (HDU) EQUIPMENTS
IN THE HOSPITALS AND MEDICAL COLLEGES OF THE GOVERNMENT OF WEST BENGAL.

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-26/2016

Dated-23.05.2016

Schedule-I

Amendment – II (Revision of Technical Specification)

The revised technical specifications for the item is given below,

Ventilator - Standard

1. To serve adult & pediatric age group patients.
2. It should have integrated US FDA approved Compressor. The ventilator should be compressor driven.
3. Provision for running with compressed air supply with separate air inlet port. In absence or low pressure of air supply, ventilator should be run by compressor.
4. Hinged arm holder for holding.
5. Inbuilt Monitoring Screen (minimum 12 inches)
6. Automatic Compliance & Leakage compensation for circuit and artificial airway.
7. Following settings for all age groups
 - a. Tidal volume – 50ml to 2000ml (and beyond both limits)
 - b. Pressure (Insp) – 0 to 60cm H₂O
 - c. Respiratory Rate – upto 60 breaths per minute or more.
 - d. PEEP – 0 to 20 cm of H₂O (0 to upper limit of at list 20 cm of H₂O).

- e. FiO_2 21 to 100%.
- f. Pause time – 0-30% or equivalent time in seconds of breath cycle time.
- g. Pressure & Flow Trigger – Pressure Trigger 0-20 cm H_2O below PEEP; Trigger Flow 0.5 – 6 LPM
- h. Inspiratory rise time – 0-20% of breath cycle time or equivalent in second.
- i. I:E ratio – Standard Range (1:1.5 – 1:3) with Provision for inverse ratio ventilation.
- j. T_i – 10-80% or equivalent time in seconds of breath cycle time.
- k. Peak Output Flow up to 140 LPM or more.

8. Monitoring of the following parameters

- a. Airway Pressure (Peak, Plateau & Mean)
- b. Tidal Volume (Mandatory:- Inspiratory & Expiratory, Desirable:- Spontaneous)
- c. Minute Volume (Inspiratory, Expiratory & Spontaneous)
- d. Total Frequency of breaths & I:E ration
- e. Alarms for all measured & monitored parameters

9. Modes of Ventilation

- a. Volume Cycled Ventilation
 - i. Assist / Controlled / SIMV
- b. Pressure Controlled
 - i. Assist / Controlled / SIMV
- c. CPAP/PSV
- d. Provision of future upgradation to the following modes: Pressure Regulated Volume Control (PRVC) / Proportional assist Ventilation / Volume assured pressure support / Volume support / Adaptive support ventilation / Airway Pressure Release Ventilation (APRV) / Bilevel / Noninvasive (or equivalents) - Bidder should quote the rates for available upgradation separately in **Form 10 (c)**.

10. Apnea / Back-up ventilation: - Volume **and/ or** pressure controlled in user friendly manner

11. Audio – Visual Alarm for

- a. Airway Pressure
- b. High continuous Pressure
- c. FiO_2
- d. Expired minute volume
- e. Apnea
- f. End expiratory pressure
- g. Respiratory rate
- h. Gas Failure
- i. Battery

12. Preferably Automatic Patient Detection facility.

13. Battery Back-up for minimum 1 hour (including compressor).

14. System Configuration Accessories, Spares & Consumables

- a. ICU Ventilator – 1
- b. Adult & Pediatric reusable silicon breathing circuit – 02 each
- c. Heated Humidifier – 01

d. Inbuilt nebulizer – 01 (optional)

15. Environmental Factor

- a. The Unit shall be capable of being stored continuously in ambient temperature of 0 – 50°C & relative humidity of 15 – 90%
- b. Shall Meet IEC – 60601 – 1 – 2:2001 (or Equivalent BIS) general requirements of safety for electromagnetic compatibility.
- c. Shall be capable of operating continuously in ambient temperature of 10 – 40°C and relative humidity of 15 – 90%.
- d. All sensors and other non-consumable items (other than reusable silicon ventilator circuits) should be free of cost during warranty and CMC.**

16. Power Supply

- a. Power input should be 220 – 240 V AC, 50Hz.
- b. Resettable over current breaker shall be fitted for protection.
- c. Suitable online UPS with commensurate capacity for all ventilators including compressor supplied in each CCU with maintenance free batteries for minimum one hour back-up should be supplied.

17. Standards, safety and training

- a. Should be US FDA and CE approved.
- b. Certified to be compliant with ISO-7767 (or equivalent) for Oxygen monitoring.
- c. Demonstration of quoted equipment model is a must.
- d. The successful bidder will have to setup its own service center in West Bengal and submit proper documents in support within 15 days of received of AOC (Award of Contract). The manufacturer will also have to setup their regional office in West Bengal.
- e. The service provider should have the necessary equipment recommended by the manufacturer to carry out preventive maintenance test as per guidelines provided in the service/maintenance manual.
- f. Warranty for 2 years and CMC for 5 years

18. Documentation

- a. Certificate of calibration and inspection from factory.
- b. List of equipment available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual.
- c. User manual in English.
- d. Service manual in English.
- e. Log Book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company engineer should be clearly spelt out.
- f. List of important spare parts and accessories with their part number and costing.
- g. Compliance report to be submitted in a tabulated and point wise manner clearly mentioning the page/Para number of original catalogue/data sheet. Any point, if not substantiated with authenticated catalogue/manual, will not be considered.

NOTE:

- 1) Reusable consumables (other than reusable silicon ventilator circuits) should last during the warranty period.
- 2) In case any additional reusable consumables are required during the warranty period those will be supplied free of charge by the supplier.
- 3) The life expectancy of the reusable consumable is expected to be of at least one year from the date of purchase of the same. The reusable consumables will be procured at the prices accepted as per the contract.
- 4) Any reference to brand / product in case it occurs anywhere in the technical specification is purely for indicative/illustrative purposes and should be read as including its equivalent.
- 5) The product quality requirement in this ICB will be CE ("Conformité Européene") and US FDA.
- 6) Unless specified otherwise in the Technical Specifications, all offers should include UPS unit or battery backup of at least one hour, as the case may be, with each equipment.
- 7) Offered product catalogue to be attached in original (2 in nos.) with each bid.
- 8) Attach valid quality certification document(s); no self-certifications admissible.
- 9) Quality Management System in conformity with ISO 1901:2008 where specified.
- 10) Product quality standard (CE and US FDA) to be supported by authentic documents; Warranty, its scope and service facilities to be clearly indicated in the documents.
- 11) One CD/DVD of demonstration video must be supplied with the equipment for end users.
- 12) One CD/DVD of demonstration video must be submitted along with the bid.

Amendment – III

E. Submission and Opening of Bids

(II) Statutory Documents

(c) BID – C

The components of the Bid C is noted below,

i) Bill of Quantity (BOQ),

BOQ shall contain the financial quotes in respect of the following,

- (a) **Gross Price of Equipment (GP):** includes value of goods, accessories & ancillaries and taxes, duties, freight charges, insurance, installation, commissioning, end user training as many number of times as required during the period of warranty and any other charges as applicable. **Entry tax @ 1% should also be considered in the Gross Price.**

(b) **Comprehensive Maintenance Contract (CMC) charges** (excluding applicable taxes and charges) include:

The equipment including all other accessories and ancillaries as given in the specification of the equipment.

The rates are to be quoted year wise. 90% (ninety per cent) of the CMC Charges will be paid at the time the CMC is executed against submission of equivalent amount of bank guarantee. Balance 10% (ten per cent) will be paid after satisfactory completion of the CMC period (in this case, no Performance Security would have to be deposited by the supplier).

The equipment wise list for preventive maintenance is given in the table below,

Sl. No.	Equipments	Mandatory PMS visit during warranty & CMC	Remarks
1	Ventilator Standard	4	<p>1. Supplier/ authorised service provider must attend all breakdown calls during warranty/ CMC period.</p> <p>2. The supplier should provide Preventive Maintenance Services (PMS) yearly / bi - yearly / quarterly in equal interval to fulfill the minimum number of mandatory PMS as recommended in the previous column during warranty / CMC period.</p> <p>3. The preventive maintenance includes testing & calibration as per technical / service/ operational manual, spares, all software updates and labour.</p>

ii) The Statement of Breakup of Duties and Taxes and Cost of Consumables & Spares

The Tenderer should upload the following statements in PDF in addition to BOQ in .xls

- (i) Breakup for Duties and Taxes (as per Form 8 of Sec V) for equipment.
- (ii) Cost of Consumables & Spares as per Form 10(a) and 10(b).

Financial comparison of Bids

The details of financial comparison of the bids for the following schedules is noted in the table below,

Schedule	Item	Sum of the components under BOQ would be taken together
Schedule-I	Ventilator Standard	'a' & 'b'

The rates quoted shall be firm and no variation will be allowed during the period of contract.

Detailed list of documents annexed at Form 1 Check-List Form, Section V

N.B.

- a) Any wrong or misleading information provided by the Tenderer during submission of bids may lead to summary cancellation of bid, blacklisting in WBMSCL for at least 5 years and forfeiture of EMD.
- b) Each scanned documents should have an index page indicating the name of the documents enclosed with Page no.
- c) The Earnest Money will be refunded within 15 days after finalization of the tender and / or submission of Performance Bank Guarantee.

F. Evaluation and Comparison of Bids

34. Evaluation of Bids

B. Financial Evaluation

Financial Bids (Bid - C) of the technically qualified Bidders would only be opened. Comparison of Financial Bids would be based on the sum of 'a' & 'b' taken together as mentioned in "Submission and Opening of Bids" quoted by the tenderers.

Amendment – IV

Section V. Bidding Forms

Form 10 (c): Rates for optional items

Sl. No.	Items	All inclusive cost for each machine in INR (need not quote for the modes which are not available)
1	Charges for the future upgradation of the following modes,	
	a) Pressure Regulated Volume Control (PRVC)	
	b) Proportional assist Ventilation	
	c) Volume assured pressure support	
	d) Volume support	
	e) Adaptive support ventilation	
	f) Airway Pressure Release Ventilation (APRV)	
	g) Bilevel	
	h) Noninvasive (or equivalents)	
2		
3		
4		