



Notice Inviting e-Tender

West Bengal Medical Services Corporation Limited
Swasthya Sathi
GN-29, Salt Lake, Sector-V
Kolkata-700091

Phone No (033) 40340308/412
E mail: procurement@wbmsc.gov.in

Supply & Commissioning of Medical equipment for setting up/augmentation of CCU/HDU facilities at
COVID Hospitals of the State of West Bengal.
(Submission of Bid through *online*)

Bid Reference No.: WBMSCL /NIT-72/2021

Dated –14.04.2021

AMENDMENT-I

TECHNICAL SPECIFICATIONS

SCHEDULE – I

Multi Channel Monitor

1. The monitor should have bright, highly visible minimum 10 inch LED screen colour display of minimum 800 X 600 line resolution for easy viewing from a distance.
2. Integrated modules for standard measurements to be provided with all the monitors are:
 - a) 70% of the tendered quantity of Multi Channel Monitor with ECG, Heart Rate, Respiration Rate, SpO₂, Arterial pressure, Central Venus pressure, Non Invasive blood pressure & Temp. SpO₂ measurement with NELLCORE / MASHIMO or recognized equivalent technology.
 - b) 30% of the tendered quantity of Multi Channel Monitor with ECG, Heart Rate, Respiration Rate, SpO₂, Arterial pressure, Central Venus pressure, Non Invasive blood pressure & Temp. SpO₂ measurement with NELLCORE / MASHIMO or recognized equivalent technology and EtCO₂ measurement facility (Not side stream).
3. Modules should be colour coded to avoid inserting wrong cables, leads.
4. The monitor shall be able to mount on the wall with a battery backup of minimum two hrs. as well as on bed side trolley.

5. Should have the capability to display at least five (05) real-time waveforms along with related numerical parameters on a single screen.
6. The size of the numeric and waveforms should be adjustable to become larger for viewing from very long distance.
7. The monitor should have the capability to be operated through knob/touch screen or both.
8. Should have 5 lead ECG facility.
9. Should have advanced multi – lead arrhythmia analysis capability.
10. The monitor should have configurable screen configurations for various monitoring settings like emergency, general monitoring, 5 lead screens etc.
11. Trends recording for 24 hrs.
12. The monitor should have the facility to connect to central nursing station.
13. The monitor must have audio & visual alarms for the vital parameter specifically covering the range for the neonates.

Standard Accessories should be supplied as standard:

- ECG/Respiration ECG lead: 02 nos.
- ECG electrodes for paediatric: 10 nos.
- ECG electrodes for Adult: 10 nos.
- NBP Reusable cuff infant: 01 no.
- NBP Reusable cuff paediatric: 01 no.
- NBP Reusable cuff Adult: 01 no.
- NBP Hose for reusable cuff: 01 no.
- SpO2 sensor for neonates jack type with restrain / Clip type: 01 no.
- SpO2 sensor for paediatric jack type with restrain / Clip type: 01
- SpO2 sensor for adults: 01 no.
- Reusable Temperature probe for neonate: 01 no.
- Reusable Temperature probe for paediatric: 01 no.
- Reusable Temperature probe for Adult: 01 no.
- Wall mount to be provided: 01 no.
- Saline pressure bag (500 ml) to maintain Arterial line: 05 nos.
- Arterial pressure transducer: 05 nos.
- Central Venus pressure transducer: 05 nos.
- Pressure transducer cable: 02 nos.

Standards & Safety:

- i). The product should be US FDA or CE (“Conformite Europeene”) from European Union notified body having 4 digit identification number approved (Certificate to be submitted) or BIS.
- ii). It should have onsite service facility. The service provider should have necessary equipments recommended by the manufacturer to carryout preventive maintenance test as per guidelines provided in the service/ maintenance manual.
- iii). Warranty for 2 years and 5 years CMC after warranty.



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AMENDMENT-II

BOQ has been replaced



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TECHNICAL SPECIFICATIONS

SCHEDULE – II

Syringe Pump

1. Microprocessor controlled pump capable of propulsion of fluids accurately.
2. Syringe compatibility: The pump should work with different brands of syringes and is able to accept syringes with volumes of 5 ml – 50 ml.
3. There should be automatic detection of syringe size.
4. It should be equipped for detecting correct fixing of syringe.
5. Flow rate should be adjustable from 0.1 ml/hr to 1000 ml/hr.
6. Flow rate should be adjustable in increments of 0.1 ml/hr.
7. Flow rate adjustment should not involve stopping of the existing infusion rate.
8. The accuracy of flow rate should be $\pm 2\%$.
9. The flow rate should be displayed in ml/ hr. Delivery rate can be calculated automatically by pre-setting of volume & time. It should also accept values in mg/ hr, $\mu\text{g/ hr}$, mg/ kg/ hr etc.
10. It should be able to deliver bolus dose in automatic/ manual mode.
11. Pump should have commonly used drugs library of 40 or more.

12. It should work on 200 – 240 VAC, 50 Hz source and in-built rechargeable battery.
13. Internal battery life should be minimum of 6 hrs when fully charged.
14. Pump should have LED/ LCD display.
15. The following audio and visual alarms should be incorporated:
 - i. Main changeover to battery indication
 - ii. Alarm for occlusion volume of less than 0.5 ml
 - iii. Near empty syringe
 - iv. Low battery
 - v. Standby visual alarm
16. There should be a method of automatic bolus volume reduction after occlusion release.
17. There should be provision for setting of occlusion pressure alarm **at 150 mm of Hg or lower.**
18. The pump should be waterproof / water resistance so that fluid should not enter inside the pump in case of accidental spillage.
19. The syringe pumps should be capable of standalone functioning as well as being fixed on a frame/platform/stand.
20. Power cord should be supplied with 3 meters in length.
21. Cost of all accessories and spares including the cost of rechargeable battery should be mentioned in form 9 (a) & 9 (b) separately.
22. **Standards, Safety and Training**
 - i). It should be US FDA or CE (“Conformite Europeene”) from European Union notified body having 4 digit identification number approved or BIS (Certificate to be submitted).
 - ii). It should **have onsite service facility**. The service provider should have necessary equipments recommended by the manufacturer to carryout preventive maintenance test as per guidelines provided in the service/ maintenance manual.
 - iii). Warranty for 2 years and 5 years CMC after warranty.



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AMENDMENT-I

TECHNICAL SPECIFICATIONS

SCHEDULE – III

Bi-PAP Machine (with NIV Mask)

1. Modes of Operation:

- 1.1 Spontaneous
- 1.2 CPAP
- 1.3 BI-LEVEL
- 1.4 Variable apnea backup
- 1.5 During changing from one mode to the other, the machine should not be switched off.
- 1.6 All its parts are to be considered as non-consumables and should be supplied free of cost during warranty and CMC
- 1.7 Ventilator circuit-05 nos. should supplied with each BI-PAP.

2. Product Feature:

- 2.1 Simplified standard setting menu
- 2.2 Automatic Leak management
- 2.3 Automatic / Adjustable Breath trigger / cycle
- 2.4 Noiseless flow generator of less than 30Db

3. Technical Specification:

3.1 Performance:

- 3.1.1 Operating pressure range: 4 to 25 cm H₂O
- 3.1.2 Maximum single fault pressure: 40 cm H₂O

3.2 Dynamic pressure characteristics:

- 3.2.1 S mode: IPAP: 4 to 25 cm H₂O ; EPAP: 4 to 25 cm H₂O
- 3.2.2 CPAP mode: 4 to 20 cm H₂O

3.2.3 S/TD mode (with back up breath and also Ti)

3.3 Sound pressure level:

- 3.3.1 < 30 dB with certification

3.4 Display:

- 3.4.1 Leak
- 3.4.2 Pressure
 - 3.4.2.1 IPAP
 - 3.4.2.2 EPAP
- 3.4.3 Respiratory Rate
- 3.4.4 Minute / Tidal Volume

3.5 Power Supply:

- 3.5.1 220 – 240 V AC, 50 – 60 Hz
- 3.5.2 Inbuilt Battery Back-up minimum 1 hour

3.6 Environmental condition:

- 3.6.1 Operating Temperature – 5 – 40°C
- 3.6.2 Humidity – 10 – 95%

3.7 Air Filter:

- 3.7.1 Washable air filter
- 3.7.2 Filter to be changed whenever needed without disturbance to compressor

3.8 Electromagnetic Compatibility:

- 3.8.1 Shall meet IEC – 60601 – 1 – 2:2001 (or equivalent BIS) general requirements of safety for electromagnetic compatibility
- 3.9 It should be US FDA or CE (“Conformite Europeene”) from European Union notified body having 4 digit identification number approved or BIS (Certificate to be submitted).
- 3.10 Warranty for 2 years and CMC for 5 years.

Note: Supplier should arrange for stand by machine in case the equipment is taken to the service centre for repair and calibration.



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AMENDMENT - I

SCHEDULE – IV

TEMPERATURE CONTROLLED HUMIDIFIER WITH ACCESSORIES

Table for Important Dates

Sl.	Items	Publishing date(s)
1.	Date of uploading of N.I.T. Documents (online)/ Date of Issue	14.04.2021
2.	Documents download start date (Online)	14.04.2021
3.	Date of Pre bid Meeting with the intending Tenderers in the Conference Hall of West Bengal Medical Services Corporation Limited	19.04.2021 at 2:00 PM To Join through Google Meet, click the link: https://meet.google.com/cm-b-hzig-eot

4.	Bid submission start date (On line)	27.04.2021
5.	Documents download end date (Online)	N.A.
6.	<p>Bid submission closing (On line) Bid submission includes: i) Non statutory documents to be submitted under <u>My Space</u> (Each sub-category item should be in multiple page single PDF file) ii) BID – A (Should be in multiple page single PDF file) iii) BID – B (Should be in multiple page single PDF file) iv) BID – C (BOQ and the Statement of Breakup of Duties and Taxes & Prices of consumables, spares etc.)</p> <p>Detailed list of documents annexed at Section V Check-List Form</p> <p>Non-statutory document (document uploaded in <u>My Space</u>), Bid – A & Bid – B constitute the technical bid and Bid – C is the financial bid.</p> <p><i>Any wrong or misleading information provided by the Tenderer during submission of bids shall lead to summary cancellation of bid and may lead to blacklisting in WBMSCL for at least 5 years.</i></p> <p>Each scanned documents should have an index page indicating the name of the documents enclosed with Page no.</p>	29.04.2021 at 04:00 PM
7.	<p>Last date of submission of:</p> <p>i) Earnest Money Deposit (Copy of the receipt of online submission of EMD)</p> <p>ii) Hard copies of the documents uploaded in e-tender during bid submission. No BOQ to be submitted in hard copy.</p> <p>N.B.:</p> <p>1) All the above documents are to be submitted at the registered office of WBMSCL.</p> <p>It is essential that all documents in hard copy are to be placed before the Committee and arranged in the same sequence as given in the Check List. All the documents should be appropriately flagged.</p>	N.A.
8.	Bid opening date for Technical Proposals (Online)(Bid A & B)	29.04.2021 at 04:30 PM
9.	Bidders to remain present at WBMSCL Office, Kolkata for identification of the documents for the technical bid evaluation	N.A.
10.	Functional demonstration of the equipment	N.A.
11.	Submission of non-statutory Wanting document (if any)	To be notified later
12.	Opening of Financial Bid	To be notified later