



## Notice Inviting e-Tender

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Supply and Commissioning of different medical equipment for Critical Care Block(CCB)  
project(Item category-Type A)

(Submission of Bid through *online*)

2<sup>nd</sup> call of Bid Reference No.: WBMSCL/NIT-175/2022(schedule-VII,VIII,X&XI); dated-18.04.2023

Bid Reference No.: WBMSCL/NIT-427/2023
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Dated-26.07.2023
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## Schedule-II

### Amendment-I

## REVISED TECHNICAL SPECIFICATION INFUSION PUMP

### Delivery rate

- 1-1,200 mL/h (0.1- 99.9 mL/h: 0.1 mL/h step, 100 -1,200 mL/h: 1 mL/h step)
- The delivery rate can be set in 1 mL/h step throughout the range by the internal mode select switch.

### • Delivery limit

- 1-9999ml

### • Volume delivered

- 1- 9,999 mL (0.0 - 99.9 mL: 0.1 mL step, 100 - 9,999 mL: 1 mL step).

- b. The volume delivered reading is in 1 mL step from 1 to 9,999 mL by the internal mode select switch.

- **Purging**

- a. Higher than 500 mL/h

- **Alarms**

- a. Air/Occlusion/Flow error/Door/Low Battery.
- b. Pump stops except during the 'Low Battery.' alarm.

- **Occlusion detection** facility should be there

- **Pressure**

- a. The detection pressure can be adjusted in 3 levels (Low / Medium / High) within the above range.

- **Completion function**

- a. When the total volume delivered reaches the preset delivery limit, the indicator and buzzer notify the operator.

- **Special functions**

- a. 'Keep vein open' function (After the delivery limit has been reached, delivery continues at 1 mL/h for a set flow rate of ~1 mL/h: or at the delivery rate setting < 1 mL/h.)
- b. Tubing clamp function (When the door is opened, tubing is automatically clamped.)
- c. Volume delivered clear function
- d. Time remaining (or) time lapsed display
- e. Battery capacity indicator (3 levels)
- f. Adjustable display brightness (Can be switched to 2 levels)
- g. Adjustable buzzer volume (single level)
- h. Operation history function (Storage/display of operation history). The unit should store the last settings.
- i. Standby, function
- j. Repeat alarm function
- k. Start reminder function

l. The following functions can be selected via internal switches:

m. Volume memory function

n. Delivery rate 1 mL/h step

- **Environmental Factors**

a. The Unit shall be capable of being stored continuously in ambient temperature of 10 – 40 °C & relative humidity of 15 - 90%

b. Shall Meet IEC - 60601-1-2:2001 (or Equivalent SIS) 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%

- **Power Back-up**

a. Power input: 220-240V/50Hz Single phase or 380-400 V AC50 Hz three phases fitted with appropriated Indian plugs & sockets.

- **Standards, Safety & Training**

a. Should be US FDA / European CE ( 4 digit notified body) / BIS approved product.

b. Electrical safety conforms to standards for electrical safety IEC - 60601/IS – 13450

c. Manufacturer should have ISO certification for quality standards

d. Should have local service facility. 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

e. Warranty for 2 years.

f. User manual in English

g. Service manual in English

h. List of important spare parts and accessories with their part number and costing

i. Certificate of calibration and inspection from factory

j. List of equipment available for providing calibration and routine maintenance support as per manufacturer documentation in service/technical manual

k. 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. Must submit user list and performance report within last 3 years from major hospitals.