

# Notice Inviting e-Tender West Bengal Medical Services Corporation Limited Swasthya Sathi GN-29, Salt Lake, Sector-V Kolkata-700091

Phone No (033) 40340307/320 E mail: procurement@wbmsc.gov.in

Procurement of 4(Four) types of Medical Equipments for the Department of Cardiology, Anamoy SSWH at Burdwan Medical College and Hospital

(Submission of Bid through online)

Bid Reference No.: WBMSCL/NIT-405/2023

Dated-17.07.2023

Amendment-II

## Schedule-III

### Technical specification of Intra-aortic Balloon Pump (IABP)

#### General requirements:

- 1. Automatic Start-up function (one-button start up function)
- 2. Automatic Lead & Trigger Selection
- 3. Automatic Inflation & Deflation time
- 4. User Options to Fine-Tune Deflation Timing within Automatic Mode
- 5. Usage of Fiberoptic & Non-Fiberoptic Intraaortic balloons shall be possible
- 6. Automatic calibration function, when Fiberoptic balloon is in use
- Automatic recalibration should be there when hemodynamic changes occur in patients.
- 8. Equipment shall accept external (ECG/AP signals) from external monitor
- 9. Equipment shall be capable to transmitt low-level AP signal to external bedside monitor

#### Pneumatic System

1. Pneumatic Module – shall consist of Safety Disk / <mark>Stepper motor driven</mark> and Automatic Condensation

Removal System

2. Condensation Removal System shall utilize technology for continuous water vapor removal with each inflation and deflation cycle

3. Fill system shall ensure a pressure controlled measurement of catheter and tubing volume and calculate a targeted fill pressure based on that volume

- 4. Autofill function:
  - If Fiberoptic balloon is used:Automatic fill and automatic calibration at

#### start up

• If non-fiberoptic balloon is used: Automatic fill at start up

5. Pneumatic Concealment: Pneumatic Module shall be built into pump console and shall have no exposure of drainage or fill tubing.

#### ECG/Pressure Input

- 1. ECG Input (Direct): Color coded GREEN and keyed
- 2. Pressure Input (Direct): Color coded RED and keyed
- 3. External Monitor Interface Inputs from Bedside Monitor to the equipment for ECG / AP signals using %" phono jack input
- 4. The equipment shall be capable to send out a low-level output BP Signal from the unit to bedside monitor (for both fiberoptic or non-fiberoptic BP signals).

#### Batteries

1. The equipment shall have min. 2 Lithium Ion / 2 Lead Acid batteries for portable

operation (patient transport).

- 2. Battery change during transport shall be possible without interruption of therapy (battery exchange while device is in operation).
- 3. Battery run time shall be 90min for each battery minimum.

#### Helium tank

- 1. The equipment shall have:
  - External Helium tank / Internal Helium tank for transport situation with smaller size and lighter for proper transport handling - located inside the unit.

#### Monitor Display & Display Indicators

- 1. Type of Monitor: Color LCD
- 2. Monitor min. size: min. 12.1" (31cm) diagonal
- 3. Monitor min. resolution: min. 1024 horizontal x 768 vertical
- 4. Clear, crisp and large display
- 5. ECG Lead Fault Management: The unit shall have the ability to pinpoint and display faulted/disconnected electrode(s)
- 6. Pressure Waveform display shall be in RED and should automatically indicate what BP signal source is being used (Fiberoptic or Transducer).
- 7. Helium status indicator shall display remaining Helium tank capacity
- Battery icon shall indicate battery status and if less than 30min charge is left a medium priority alarm shall be generated. Also display the approximate time remaining.

#### Touchscreen / Keypad

1. The equipment shall have an interactive touchscreen technology - touchscreen/keypad shall have good visibility in low-light conditions

- 2. For operation safety: Lock screen feature for touch screen to:
  - Automatically lock after 2min of inactivity
  - Automatically unlocks with any alarm
  - Operator shall be able to quickly (one touch) manually unlock/lock
- 3. Quick selection of Automatic and Semi-Automatic operation modes
- 4. The unit shall have enhanced pacer detection for proper handling in this situation including the option to increase/decrease pacer detection sensitivity to minimize potential for pseudo pacer spike interference.
- 5. The equipment shall have indicators for inflation in ECG signal / option to display inflation marker at BP signal for easy identification of inflation period.
- 6. For operation safety and quick and easy troubleshooting of any alarm situation: the unit shall have detailed help screens available within the touchscreen:
  - Quick access key for access of help screens with clear instructions
  - Alarms/messages shall be displayed in order of priority so operator can select which one to visualize first
  - If help screen is displayed the patient waveforms shall be not occluded.

#### Transport Operation:

1. Quick and easy to set into transport configuration

<u>^</u>	1. Carlotte	and a finite to the	£	A	and the second second second
Ζ.	Light	weight	tor total	transport	console

- 3. In addition to above described battery run time and quick exchange while in operation there shall be an external battery charger available as an optional accessory
- 4. Transport fixation (approved & certified) shall be available for the equipment.