Notice Inviting e-Tender

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Procurement of 4(Four) types of Medical Equipments for the Department of Cardiology, Anamoy SSWH at Burdwan Medical College and Hospital
2nd call of Bid Reference No.: WBMSCL/NIT-405/2023; Dated-17.07.2023

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-494/2023	**Dated-22.08.2023**

Amendment-I

REVISED TECHNICAL SPECIFICATION

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
7. 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 / Stepper motor driven 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 / Orange and keyed
3. External Monitor Interface Inputs from Bedside Monitor to the equipment for ECG / AP signals using ¼" 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. External / internal battery 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
8. 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
2. Light weight for 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.