Notice Inviting e-Tender

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(Submission of Bid through *online*)

Supply and Commissioning of Pulmonary artery catheter based continuous cardiac monitor for Dept of CTVS, Medical College, Kolkata

(Submission of Bid through *online*)

(2nd call of bid Reference No.: WBMSCL/NIT-378/2024; Dated-24.06.2024)

Bid Reference No.: WBMSCL/NIT-429/2024	**Dated-29.07.2024**

AMENDMENT-I

REVISED TECHNICAL SPECIFICATION

PA Catheter Based Continuous Cardiac Output Monitor

- It should have a touch screen with an active area of 12.1 inches.
- It should be able to provide Continuous Cardiac Output through a dedicated arterial sensor only when connected with a dedicated cable available separately.
- It should be able to give Continuous Cardiac Output, Stroke Volume (SV), Stroke Volume Index (SVI), Stroke Volume Variation and Systemic Vascular Resistance (SVR) and Systemic Vascular Resistance Index (SVRI) when used with appropriate arterial line sensor.
- It should have the option of providing intravascular oximetry parameter i.e Central Venous Oximetry updated every 2 sees when used with dedicated disposable central venous catheter.

- It should be able to provide Intermittent & Continuous Cardiac Output (ICO & CCO). Continuous Right Ventricular Ejection Fraction (RVEF), Continuous Right Ventricular End Diastolic Value (RVEDV, RVEDVI), Systemic Vascular Resistance (SVR, SVRI) & Pulmonary Vascular Resistance (PVR) when used with appropriate PA Catheter.
- It should provide Hypotension Prediction Index to measure hypotension probability before the incidents with appropriate arterial sensor.
- It should also provide dP/dt-Systolic slope maximal upslope of the arterial pressure wave form from a peripheral artery. After load-Dynamic arterial elastance (Eadyn) the ratio of pulse pressure variation to stroke volume variation (PPV/SW) with appropriate arterial sensor.
- It should be able to provide Cerebral/Tissue Oximetry parameter (StO2) using Near Infrared Spectroscopy (NIRS) technology with at least 5 different wave lengths and light penetration depth of at least 2.5cm
- It should have an optional provision for 2 Tissue Oximetry modules with the capacity to use up to 4 non-invasive Tissue Oximetry sensors at any point of time.
- It should be equipped with 3 expansion modules & 2 cable receptacles.
- It should have the option to be scalable to Non-invasive Cardiac Output technologies in the future.
- It should have option of wired & wireless communication.
- It should have display capacity of at least 4 trend lines and 4 numerical display. Optional physiology and physic-relationship screen.
- It should have the opt ion of providing dedicated perioperative goal-directed therapy (PGDT) screens and analytics.
- It should have the option of connectivity with hospital information system.
- It must save data for at least 72 hours.
- Must have screen shot and data download facility through any USB stick. It should have an HDMI, USB & ETHERENET port for various connectivity.
- **Disposable should be given with the monitor:**
    1. HPI sensor – 10 pieces
    2. NIRS sensor large – 10 pairs
    3. NIRS sensor medium – 10 pairs
    4. PA Catheter CCO –SVO2 – 20 PCS
- **Certification**: The system should have IEC 60601 and valid CDSCO Certificate/Registration/License for the manufacturer(s) or Importer as applicable