

## Notice Inviting e-Tender

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Supply and Commissioning of Medical equipments for setting up of Sports Medicine unit at IPGME&R and SSKM Hospital of the Govt. of West Bengal  
[2nd call of bid reference no. WBMSCL/NIT-383/2021, (Schedule-I, II, III, IV, VI, VII, VIII, IX, XI, XII, XIII); Dated-25.11.2021]  
(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-58/2022

Dated-21.02.2022

### Amendment-I

## REVISED TECHNICAL SPECIFICATION

### Schedule – V

#### FINOMETER

Non-Invasive Blood Pressure System – Continuous finger blood pressure and cardiac output, stroke volume, and total peripheral resistance model flow estimates.

1. Wrist Unit and main Human NIBP Controller
2. Regular Cuff and Finger cuff.
3. Blood pressure accuracy: 1% of full scale (max. 3 mmHg)
4. Finger cuff pressure: 1% of full scale (max. 3 mmHg), Automatic zeroing, typically, 0.5 mmHg.
5. Height correction: 2% of full scale (max. 3 mmHg), Manual zeroing
6. Heart rate: (Rate (bpm) /60%), i.e., at 60 bpm, accuracy is  $\pm 1\%$
7. Interbeat interval: 5ms (peak, non-accumulating).
8. Automatic tilt table should be provided with the system.
9. The system should provide deep breathing test, Valsalva and hand Grip
10. The system should provide non invasive tonometer compatible with continuous beat to beat blood pressure.
11. The system should have BIS / Any Indian Authentication certificate (Competent Authority) / CE (European 4 digit) / US FDA.

## Schedule – IV

### SENS BALANCE MINI BOARD

1. The unit should be useful for Static & Dynamic assessment and measure force, force distribution & movements of the patient.
2. The equipment should be suitable for upper and lower extremities training therapy.
3. Should be useful for presentation and checking of the active exertion of force by the upper extremities
4. Should be useful for performance of supporting activities, including with hemiplegia
5. Should be able to do presentation of weight distribution in bimanual supporting functional free sitting, symmetrical weight distribution and trunk and pelvis activities.
6. Should be able to check weight distribution during changing of position and during supporting leg phase and be useful for the improvement of active knee control, weight transferral, development of muscular strength and coordination of lower extremities & postural musculature.
7. Software should have the interactive therapy games for coordination and should generate the reports with progress diagram including all data.
8. The system should have feature of connecting through blue tooth to computer for wire free use of the unit for lower limbs/upper limbs/core muscles and the unit should be supplied with the suitable configuration of the desktop computer for the full operation of the system.
9. The system should have BIS / Any Indian Authentication certificate (Competent Authority) / CE (European 4 digit) / US FDA.

## Schedule – IX

### EXERCISE PHYSIOLOGY MEASUREMENT & ANALYSIS SYSTEM

Measure & analyze the physiological effects of exercise. To record and display continuous real-time measurements of metabolic parameters such as CO<sub>2</sub> and O<sub>2</sub> concentrations, airflow, temperature of respired air, ECG or EMG.

Applications include:

1. Respiratory gas analysis
2. Pulmonary function analysis
3. Indirect calorimetry
4. Anaerobic threshold calculations
5. Temperature measurements
6. Bio Amp
7. Gas Analyzer
8. Gas Mixing Chamber
9. Spirometer
10. Thermistor Pod
11. Exercise Physiology Accessory Kit
12. Appropriate software platform that, includes the Metabolic Module for calculating metabolic parameters such as  $VCO_2$ ,  $VO_2$ , respiratory exchange ratio (RER) and minute ventilation etc.
13. Telemetric sensors for ECG, Spo2, GSR, Respiration with 100m or more range in same software.
14. The system should have BIS / Any Indian Authentication certificate (Competent Authority) / CE (European 4 digit) / US FDA.

## Schedule – XI

### MUSCULO SKELETAL USG

1. The USG machine should be a latest model of state of the art technology and stand alone unit along with colour Doppler facility and triplex imaging.
2. It should have frequency processing facility for THR transducer with the remote control facility. This must be offered with independently selectable gain control in lateral position
3. The USG machine should consist with 3 probes: i) Hockey Stick probe (6-19 MHz or more) (ii). Linear probe (4-15 MHz more) (iii). ECHO probe (1-5 MHz or more)
4. Linear probe should be coupled with biopsy attachment facility for MSK intervention.
5. System must be offered with acquisition frame rate of at least 1500 frames/sec or more.

6. System must be offered with cine loop review facility. Should be able to acquire and display upto 1500 frame or more 2D and color image for retrospective review and image selection.
7. Storage- should have direct connectivity to inject printer for printing image and reports.
8. Archive- should have facility transferred to integrated CD/DVD writer.
9. Full function measurement facility and calculation should be possible.
10. System must be offered with user friendly with high resolution user interface touch panel or intuitive keyboard.
11. System must be offered with tissue harmonic imaging.
12. Medical grade Monitor (size should be 21 inch or more).
13. Active port should be at least 4 in number.
14. Should have European CE (4 digit) and US FDA certificate