



## **Notice Inviting e-Tender**

**West Bengal Medical Services Corporation Limited**

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**Kolkata-700091**

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**Supply and Commissioning of 5(five) different Medical equipment for Burdwan Medical College & Hospital**

(Submission of Bid through *online*)

**Bid Reference No.: WBMSCL/NIT-123/2023**

**Dated-14.03.2023**

### **AMENDMENT-III**

### **Revised Technical Specification**

#### **ITEM-2**

#### **ECT Machine**

1. Channels: 2 channels (ECG & EEG)
  2. CMRR: > 90dB
  3. A/D Resolution: 12 bits unipolar.
  4. Low-pass frequency (Hz): DC, 0.1, 0.3, 0.5, 1, 3, 5, 7, 10
  5. High-pass frequency (Hz): 0.1, 0.3, 0.5, 2, 10, 15, 35, 70, 99
  6. Sensitivity ( $\mu$ V): 1, 2, 3, 5, 7.5, 10, 15, 20, 30, 50, 75, 100, 200, 300, 500, 750, 1000, 1500
  7. Max. Sampling rate: 256
  8. Interface: RS-232 interface
  9. Modes: i. Brief pulse mode ii. Sine wave mode
  10. Brief pulse: Bi-directional square wave.
  11. Brief pulse mode: i. Frequency ii. Duration iii. Pulse width iv. Current selectable by user v. Energy automatically calculated by the micro computer
  12. Frequency: selectable 30 Hz-90Hz in 7 steps of 10 Hz each.
  13. Pulse width: selectable 0.8 ms-2.0 ms in 7 steps of 0.25 secs each. EP division Running Contract
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14. Duration: selectable from 0.5 secs to 2.0 secs in 7 steps of 0.25 secs each
15. Current: 500 mA- 800 mA in 7 steps of 50 mA each
16. Energy: Energy is delivered according to the head impedance calculated and the set parameters.
17. Sine wave i. Current: 650mA (fixed) ii. Frequency: 50Hz (fixed) iii. Duration: 0.5 ms (fixed)
18. Energy: Energy is delivered according to the heard impedance calculated and the set parameter
19. Recording section : The unit is equipped with a two channel monitoring system. EEG/ECG traces can be run before and after treatment to monitor the patient's EEG &ECG traces.
20. Software features: i. Session wise records are saved for each patient. ii. View/ edit/ delete any session at any time. iii. Search facility should be available for patient's database. iv. All the parameters of a session & shock settings should be saved for review. v. Event marking facility. vi. Automatic report generation. vii. Print preview & print out for waveforms & report. viii. Time measurement tool ix. Peak to peak measurement tool. x. Heart rate measurement tool. xi. Selectable filters, sensitivity, deflection & channel color xii. Raster & continuous viewing of waveforms. EP division Running Contract Notice Page 3/4
21. Standard accessories: i. Rubber strap head band ( Velcro type ) 1 No ii. Perspex type head band : 1 No iii. Limb electrodes: 4 Nos iv. EEG electrodes: 6 Nos v. EEG paste : 1 Jar vi. KY Jelly : 1 Tube. vii. Earthing cord: 1 No viii. Dust Cover : 1 No ix. Instruction Manual : 1 No
22. Standard Accessories i. Head band: 1 No ii. Electrodes: 10 Nos iii. Disposable electrodes: 20 Nos iv. Paste: 1 Jar v. Conductivity Jelly : 1 No vi. Earthing cord: 1 No vii. User manual: 1 No
23. Should have safety certificate from a competent authority CE issued by a notified body registered in European commission / FDA (US) / UK Cert / BIS.