

## **Notice Inviting e-Tender**

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**PROCUREMENT OF BRAINSTEM EVOKED RESPONSE AUDIOMETRY (BERA) MACHINES TO BE USED UNDER NATIONAL PROGRAM FOR PREVENTION & CONTROL OF DEAFNESS (NPPCD)**

(Submission of Bid through *online*)

<b>Bid Reference No.: WBMSCL /NIT-166/2020</b>
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<b>Dated –02.06.2021</b>
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The following amendments have been made in the tender document. The changes are highlighted in yellow in the document below,

### **REVISED TECHNICAL SPECIFICATIONS**

#### **Brainstem Evoked Response Audiometry (BERA)**

- BERA, MLR, LLR & P300, Tests;
- Bone conduction BERA;
- Left / Right comparison on single screen;
- Recording of up to 16 waves;
- Manual / Auto Jewett-Marks on waveforms;
- Programmable user defined intensities settings;
- Latency Intensity Graph;
- PC / Laptop compatible;
- A4 size standard Inkjet colour Printers

#### **BERA Machine:**

- Channels: 2
- Sensitivity: Should be 95% or more
- Lowcut: 2 pole (12dB/Octave) filter. Selectable at 100, 200, 500Hz;  
1, 2, 3,5,10 kHz

- Highcut: Selectable at 0.2, 2, 20, 30, 100, 200, 500 Hz
- Sweep speeds: Up to 1000 ms/div
- CMRR: >100 dB
- Input Impedance: >100 M Ohms (common mode)
- A/D Converter: 16 bit analog-digital conversion

### **Auditory Stimulator**

- Stimulator: Headphone & insert phone
- Stimulus: Click (Rare, Comp., Alt), Pips
- Frequency: 4000 Hz and more
- Intensity: 0-110 dB nHL (30-135 dB SPL)
- Presentation: Left, Right or both ears
- Click duration: 100  $\mu$ s square wave clicks. Rarefaction, condensation or alternating Polarity.
- Envelopes: Linear, Gaussian, Black man, Hanning
- Masking: White noise contra lateral masking from 0 dB to 80 dB nHL (30-110 dB SPL)
- Rate: User definable

### **Minimum Computer Configuration**

- OS : Windows XP Pro / Windows 7 or advance;
- Processor : Core2Duo or higher;
- RAM : 2 GB or higher;
- 500 GB Hard disk or higher, CD/DVD Optical Drive, Screen Resolution 1024x768 or higher

### **BERA Chart**

- Two tier, heavy duty cart made or pre-laminated 18 mm thick board with;
- Castors having locking arrangement;
- One pull out shelf for computer keyboard;
- Bottom shelves for printer, PC tower;
- Mounting bracket for flexible arm.

**Certification:** Particular model of BERA machine intends to quote should have European CE or US FDA certificates.