



Running Contract Details	
Equipment Name	Brain Evoked Response audiometry(BERA)Model B
Running Contract Valid Till	31-08-2025
Tender Ref No	KMSCL/EP/T486/1003B/2023
Tendered Quantity	15
Supplier Name	M/s Medilife Technologies
GST No	07AAJFM2355B1ZL
Installation & Delivery Period	8 Week(s)
Up-time / PM vist	95% & 4 Visits per year
Warranty period	3 Years

Supplier`s Details		
Address	Contact Details	
1st Floor Plot No. 2 Vikas Plaza LSC Kalkaji New Delhi-110 019	Contact Person	Mr. Sanjay Sharma
	Phone	01140588607
	Mobile No	9810524302
	Email	info@medilife.in

Item-wise Price Details				
#	Item Details	Unit Rate (Incl.all taxes & charges)	Service Charges (Through KMSCL)	Grand Total
1	<b>Brain Evoked Response audiometry(BERA)Model B</b> <i>Model &amp; Make : Neuro Audio/ Neurosoft LLC</i>	1097250 Incl.GST :5%	86317	1183567
		<b>1097250</b>	<b>86317</b>	<b>1183567</b>

Annual / Comprehensive Maintenance Charges (Exl.Tax)							
Rate	4 <sup>th</sup> Year	5 <sup>th</sup> Year	6 <sup>th</sup> Year	7 <sup>th</sup> Year	8 <sup>th</sup> Year	9 <sup>th</sup> Year	10 <sup>th</sup> Year
<b>Brain Evoked Response audiometry(BERA)Model B</b>							
Labour	18,000.00	18,000.00	18,000.00	18,000.00	18,000.00	18,000.00	18,000.00
Comprehensive	32,000.00	32,000.00	32,000.00	32,000.00	32,000.00	32,000.00	32,000.00

**Other terms & conditions**

1. The supplier shall execute an agreement with the purchaser as per tender conditions (agreement format is given in the tender

document).

2. The supplier shall submit performance security amounting to 5.00% of the value of the supply order.
3. The labour & comprehensive charges of equipment after the completion of warranty period is finalized by KMSCL as mentioned above.
4. Since discount rate is not applicable for equipment under Running Contract of KMSCL, purchase/supply order can be issued directly to supplier at the given rate with tax & other charges (exclusive of KMSCL service charges).
5. If purchase/supply order is issued directly to the supplier, KMSCL service charge need not be paid. But the copy of the said order may be forwarded to KMSCL for information.

### **Technical Specification**

#### **Equipment :Brain Evoked Response audiometry(BERA)Model B**

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1. The system should have capacity to perform the following test

A. Auditory Evoked Potentials

- a. ECOCH G
- b. ABR [ CLICK, TONE BURST ]
- c. MLR
- d. LLR/CAEP
- e. SN 10

B. OAE

- a. DPOAE
- b. TEOAE
- c. SOAE
- d. TEOAE Suppression

C. Other EP Modules

- a. P 300/MMN-FFR
- b. CABR
- c. eABR
- d. Chained Stimuli ABR
- e. ASSR
- f. ENoG
- g. cVEMP
- h. oVEMP

2. The system should have following specifications

A. To do evoked potentials

- a. Adjustable gain : 5K-300K
- b. Adjustable high passed and loss pass fitters [-6dB/oct ]
- c. Stimulus: clicks, tones, chirps, complex and user defined files
- d. Stimulus duration in micro sec or cycles [ 100 micro second up to 500 ms upto 4 sec
- e. Stimulus envelops [ Rectangular, Blackman, Cosine, Hamming, Hann Bartlett, Trapezoidal, Extended Cosine, Triangular, Gaussian]
- f. Stimulus presented continuously or only white acquiring, Rarefaction
- g. Ipsilateral and contralateral
- h. Noise masking specified level of tracking the stimulus level
- i. Stimulus rate 0.1-200 per sec
- j. Stimulus output up to 132dB SPL
- k. Stimulus attenuation range 150 dB
- l. Stimulus level accuracy +/- 1 dB

- m. D/A 16 bit
  - n. Stimulus frequency up to 32 kHz
  - o. Stimulus frequency accuracy: +/- 1%
  - p. For masking stimulus level up to 125 dB SPL with flat frequency response up to 20 kHz specific or relative to stimulus level. Contralateral and ipsilateral. White noise or notched noise.
- B. To do ASSR
- a. Gain – 100k
  - b. High pass filter- 30 Hz
  - c. Low pass filter – 300HZ
  - d. Stimulus clicks, tones, chirps and user defined file
  - e. Frequencies – 250-500-1000-2000-4000-8000 Hz
  - f. Simultaneous testing or both ears
  - g. Tests up to four frequencies per ear
  - h. Sampling rate: 40 KHZ, A/D converter 16 bit frequency accuracy 0.01%
- C. To do VEMP – integrated patient feedback, video monitor, LED feed box
- D. To do OAE with sampling rate 40 kHz, A/D converter 16 bit with frequency accuracy 0.01%

i. For DPOAE

- a. Up to 41 frequencies per DP gram
- b. DP i/O function
- c. Stimulus - two pure tones user defined, start and end F2/F1 ratio
- d. Stimulus frequency 12 KHZ-16 KHZ
- e. Stimulus level - 65/55, user defined
- f. FFT points 4096
- g. FFT points 4096
- h. FFT frequency resolution 9.8 HZ and 15.6 HZ
- i. Acquisition time 100 ms

ii. For TEOAE

- a. Response window -300-6000 Hz
- b. Stimulus: clicks, tones, user files
- c. Linear and non linear presentation
- d. Stimulus level 0 to 80 dB SPL
- e. Stimulus rate 1 to 50/s
- f. FFT points 1024
- g. FFT frequency resolution 39.1 Hz
- h. Acquisition time 25 sec
- i. Contralateral, ipsilateral and Binaural suppression
- j. Single and dual probe option

3. The EP amplifier should have following specification

- a. Two channels with automatic polarity switching and electrode cable
- b. A/D converter 16 bit
- c. Sampling rate: 200 to 40000 Hz
- d. High pass 1- 500 HZ - [ 6dB/oct, 24DB/oct @70 Hz ]
- e. Low pass 30-500 Hz -[ 6dB/Oct, 24DB/oct @500 Hz ]
- f. Adjustable artifact rejection level and time region
- g. Line frequency notch filter [-12 dB/oct ]
- h. Common mode rejection [ $\geq 105$ dB @kHz  $\geq 120$ dB 60/50 Hz]
- i. Digital filters FIR smoothing, band pass, notch filter off
- j. Noise level:  $< 0.333\mu\text{V RMS}$
- k. Input impedance:  $> 5 \text{ m Ohms}$
- l. Recording window: -2.5 s to 2.5 sec
- m. Data points 1024/wave form up to 4096 in AARM
- n. Notch filters 50/60 HZ [-12dB/oct]
- o. Electrode impedance 1000 Hz, measuring range 1-25 K ohms

4. The system should have following transducers

A. ER-3C insert earphones

- a. Intensity – 0-130 Db SPL
- b. Frequency range -125-10000 Hz
- c. THD-< 1% @ 1KHz

B. ER-2 insert earphones

- a. Intensity – 0-118 Dbspl
- b. Frequency range -125-16000 Hz

C. High frequency transducers

- a. Intensity 0-94 Dbspl
- b. Frequency range 2000-32000 Hz

D. TDH headphones/ DD 45 Hear phone

- a. Intensity – 0-94Dbspl
- b. Frequency range -125 – 1200 dHz
- c. THD , 1 % @ 1 KHZ

E. Bone Conductor

- a. Intensity – 0-98 Dbspl
- b. Frequency range -250 – 8000 Hz
- c. THD-< 1% 1 KHZ

F. ERB 10D OAE probe

- a. Intensity 0-100 dBSPL
- b. Frequency range 250-8000 Hz

G. ER 10 B+ OAE microphone

H. Sound field amplifier and speakers

I. Auxiliary output channel for ipsilateral masking and stimulus mixing

5. The computer should have following specification

- a. Window 10 operating system
- b. Minimum 4 GB RAM
- c. Minimum 5 GB hard disc space
- d. Minimum display vertical isolation of 900 px
- e. USB port
- f. Removable media, network drive/ secure internet storage site for data break up
- g. Printer

6. Compactable with ISO IEC standards

**Note:** If CDSCO (Central Drugs Standard Control Organization) certification is required for the import and marketing of the equipment, then the same shall be submitted along with the technical bid