



Running Contract Details	
Equipment Name	TWO CHANNEL AUDIOMETER AND TYPANOMETER
Running Contract Valid Till	04-07-2026
Tender Ref No	KMSCL/EP/T523/1434B1/2024
Tendered Quantity	15
Supplier Name	M/s Universal Agencies
GST No	32AAAFU5662Q1ZQ
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	
Palakkal Angadi Thrissur-680001	Contact Person	Mr. Renjith Menon, Mr.Manoj kumar
	Phone	0487-2440319, 0487-2427031
	Mobile No	9072844272, 9447053244
	Email	uniage.sales@gmail.com

Item-wise Price Details				
#	Item Details	Unit Rate (Incl.all taxes & charges)	Service Charges (Through KMSCL)	Grand Total
1	TWO CHANNEL AUDIOMETER AND TYPANOMETER <i>Model & Make : AA222H With SP90A Speakers/Interacoustics A/S</i>	713475 Incl.GST :5%	56126.7	769601.7
		713475	56126.7	769601.7

Annual / Comprehensive Maintenance Charges (Exl.Tax)							
Rate	4 th Year	5 th Year	6 th Year	7 th Year	8 th Year	9 th Year	10 th Year
TWO CHANNEL AUDIOMETER AND TYPANOMETER							
Labour	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00
Comprehensive	10,000.00	12,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00

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 :TWO CHANNEL AUDIOMETER AND TYPANOMETER

Equipment: Two Channel Audiometer and Tympanometer

Both Audiometer and Tympanometer should have in single equipment.It should have the following features:

I. Audiometer Features

1. Air & bone conduction
2. Free field audiometry
3. Stenger
4. ABLB
5. SISI
6. Modified Hughson-Westlake
7. Weber
8. Speech CD, wave files & live

I. Audiometer Technical Specification

1. Air conduction

- a. Level range: -10 to 120 dBHL
- b. Headphone: DD 45

1. Bone conduction

- a. Level range: -10 to max. 80 dB HL
- b. BC receiver: B 71 with headband
- c. Air Conduction DD45
- d. Bone Conduction B71

1. Special test battery required

- a. Stenger
- b. ABLB
- c. Weber
- d. Tone decay
- e. Langenbeck (tone in noise).
- f. Speech from Hard-drive (Wave Files)

- g. SISI
- h. Auto threshold: Hughson Westlake
- i. Intensity Steps is 1, 2 or 5dB Extended range function

1. Free field

- a. Level range: -10 to max. 90 dBHL
- b. Test signals: Pure tones, pulse and warble tone
- c. Test frequencies: 125 - 8,000 Hz,
- d. Level steps: 5 dB, 2 dB or 1 dB
- e. Masking signals: narrowband noise, white noise and Speech noise
- f. Tone tests: HL, UCL, Aided
- g. Speech tests: SRT, WRS, UCL
- h. Over threshold tests: SISI, Decay, ABLB, Langenbeck, Stenger
- i. PC-interface: USB
- j. Big Display: High resolution color display 640x480
- k. European CE /US FDA

I. Tympanometer Features

- 1. Probe tone: 226Hz, 678, 800 & 1000Hz
- 2. Manual tympanometry
- 3. Ipsilateral Reflex
- 4. Contralateral Reflex
- 5. ETF 1 test non-perforated tympanic membrane
- 6. ETF 2 test perforated tympanic membrane
- 7. ETF 3 patulous tympanic membrane
- 8. Reflex decay
- 9. Reflex latency

I. Tympanometer Specification

1. Probe tone:

- a. Frequency: 226 Hz, 678 Hz, 800 Hz, 1000 Hz puretone
- b. Level: $\pm 1\%$ 85 dB SPL (= 69 dB HL) ± 1.5 dB

1. Air pressure:

- a. Control: Automatic.
- b. Indicator: Measured value is displayed on the graphical display.
- c. Range: -600 to +400 daPa. +5%.
- d. Pressure limitation: -750 daPa and +550 daPa
- e. Pump speed: Automatic, Fast 300 daPa/s, Medium 20 daPa/s, Slow 100daPa/s, Very slow 50daPa/s.

1. Compliance:

- a. Range: 0.1 to 8.0 ml at 226 Hz probe tone (Ear volume: 0.1 to 8.0ml) and 0.1 to 15 mmho at 678, 800 and 1000 Hz probe tone. All +5%

1. Test types:

- a. Tympanometry Automatic, where the start and stop pressure can be user programmed in the setup function. Manual control of all functions.
- b. Eustachian tube function 1 - Non-perforated eardrum Williams test
- c. Eustachian tube function 2 - Perforated eardrum Toynbee test
- d. Eustachian tube function 3 - Patulous Eustachian tube
- e. Continuous sensitive impedance measurement

1. Reflex Functions

- a. Signal sources: Tone - Contra, Reflex: Tone Ipsi Reflex
- b. 250, 500, 1000, 2000, 3000, 4000, 6000, 8000 Hz, Wide Band, High and Low pass.
- c. Tone - Ipsi Reflex: 500, 1000, 2000, 3000, 4000 Hz wide band, high and low pass.
- d. NB noise - Contra, Reflex 250, 500, 1000, 2000, 3000, 4000, 6000, 8000 Hz
- e. NB noise - Ipsi, Reflex 1000, 2000, 3000, 4000 Hz
- f. Stimulus duration: 750 ms
- g. Intensity max: 90, 100, 120 dB HL.
- h. Outputs: Contra Earphone: DD-45 earphone

1. Test types:

- a. Manual Reflex Manual control of all functions.
- b. Automated Reflex Single intensities
- c. Reflex growth
- d. Reflex Decay Automatic, 10 dB above threshold and manually controlled with stimulus durations of 10 s.
- e. Reflex latency Automated, first 300 ms from stimulus start.
- f. Pure tone, pulse tone, warble tone, narrow band, white and speech noise
- g. Diagnostic Tests such as SISI, Decay, ABLB, Langenbeck, Stenger, Speech In Noise
- h. Mixing - signals and channels can be mixed independently
- i. Speech tests from, CD and microphone
- j. USB PC-Interface and NOAH compatible
- k. Patient database for more than 500 test results

