

Specification of Hearing Aid			
S.N	Parameter	Technical Specification	Remarks
1	Frequency Range	200 Hz - 6000 Hz	
2	Type	Semidigital / Analog	
3	Application	Mild to Profound Hearing Loss	
4	Equivalent Input Noise Level	< 25 dB	
5	Total Harmonic Distortion @ 70 dB SPL Input	500 Hz < 5%	
		800 Hz < 2%	
		1600 Hz < 1%	
6	Type of Hearing Aid	Performance Requirements (MPO and maximum full on acoustic gain)	
	Mild Type	Maximum OSPL : Minimum 130 dB SPL Full on Acoustic Gain : Minimum 62 dB	
	Moderate Type	Maximum OSPL : Minimum 132 dB SPL Full on Acoustic Gain : Minimum 70 dB	
	Strong Type	Maximum OSPL : Minimum 139 dB SPL Full on Acoustic Gain : Minimum 79 dB	
7	FDA Mandated Tolerance		
	Full on Gain OSPL90	± 3 dB	
	Full on Gain HFA OSPL90	± 4 dB	
	RTS Frequency response curve	± 4 dB from the lesser of 1.25f1 or 200 Hz to 2 KHz, ± 6 dB from 2 KHz to the lesser of 4 KHz or 0.08f2	
	RTS THD	± 3%	
	Equivalent Input Noise Level	± 3 dB	
	Battery Current	± 20%	
	RTS HFA or SPA SPLITS	± 6 dB	
	RTS Input-Output Curves	± 5 dB at 50-90 dB input SPL when matches at 70dB input SPL	
	RTS Attack Time	± 5 ms or 50% whichever is greater	
	RTS Release Time	± 5 ms or 50% whichever is greater	
8	Operation Mode	Minimum 4 (Indoor, Outdoor, Quiet, Noise)	
9	Battery	Rechargeable/ Primary cells of zinc air	
10	Features	Dual Directional Microphones, Feedback Suppression to reduce whistling, Advanced Noise Cancellation, Background Reduction, AGC, Telecoil, Superior Volume Control Provision, Discrete and Comfortable Design	
11	Operating Temperature	Minimum 5 - 45 °C	
12	Humidity Range	Minimum 0 - 80 %	
13	Accessories	User Manual, Charger, Cleaning Kit, Compact Case	
14	Standard & Certificates	FDA Approved, ISO, ANSI or Equivalent Certified	

15	Warranty & Servicing	Minimum 2 Years/ OEM (whichever is greater) and free servicing for warranty period	
16	Terms & Condition	Hearing Aid should include universal (custom) ear-mould	
		Fittings of hearing aids should be done by licence holder (Nepal Health Professional Council/SHAN) audiologist	
		Hearing aid should meet the general specifications of SBH	
		Supplier must bear full responsibility on repairing and servicing the hearing aids if damaged.	

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