ASSISTIVE PRODUCT SPECIFICATION FOR PROCUREMENT

Hearing aids

Objective:

The objective of this specification is to help organizations in procuring good quality hearing aids that are durable and which assist individuals with hearing impairments to listen

1. Product description

The purpose of this sect identifiable.	ion is to provide specific key details relevant to the assistive product so that it is easily
Purpose of 1.1	Name of product as per WHO priority APL and/or commonly used names.
1.1 Name of product	Hearing aids
Purpose of 1.2	As per ISO 9999 classification and terminology document (refer https://www.iso.org/standard/60547.html).
1.2 ISO 9999 code	22 06 15 Behind-the-ear hearing aids Devices worn behind the ear to amplify sound Included are, e.g. headband hearing aids.
	For accessories and spare parts see ISO 9999 code 22 06 27 Accessories for assistive products for hearing
Purpose of 1.3	Describes the product type in clear, simple, easily understood language and the intended use in addressing functional needs.
1.3 Description and intended use	An electronic device that amplifies sound. Intended for people suffering from hearing loss. Its main function is to understand oral language and it also aids perception of environmental sounds. The device is portable and attached to the wearer's ear through an earmould, foam insert or other coupling method. Hearing aids vary in power and pattern of amplification, depending on the wearer's degree and type of hearing loss. Pre-programmed hearing aids are set to specific amplification patterns, appropriate to generic types of hearing loss, prior to fitting.
Purpose of 1.4	Refers to general characteristics of the assistive product that describes its appearance and components.
1.4 General features	Device body typically encloses microphone(s), receiver, amplification unit and power supply. Device body is coupled with an ear coupling system such as tubing and earmould. Batteries, that are either conventional or rechargeable, power the device and the battery is situated in the device body. Pre-programmed hearing aids have one or more listening programs, ear coupling system such as tubing (standard or slim) and earmould.
Purpose of 1.5	Refers to product models that are included in the specific APS.
1.5 Inclusion	 Behind-the-ear hearing aids. Behind-the-ear digital hearing aids. Behind-the-ear air-conduction hearing aids. Pre-programmed behind-the-ear hearing aids. Receiver in canal, slim tube, and standard tube fittings.
Purpose of 1.6	Refers to product models that are excluded in the specific APS.
1.6 Exclusion	 Analogue hearing aids. In-the-ear, spectacle and body-worn hearing aids. Bone conduction hearing aids.
Purpose of 1.7	Important, searchable words that relate to the specific assistive product.

1.7 Keywords	Communication, hearing, listening, hearing aids, self-programme, pre-programme,
	over-the-internet, over-the-counter.

2. Product requirements

The purpose of this section is to provide details of all applicable requirements relative to the specific assistive product. A requirement is mandatory and typically describes what a product should be able to do, how it should appear (product and packaging) etc. Only supply and service requirements considered applicable in procurement of hearing aids – preprogrammed and custom configuration.

2.1 Functional requirements

Purpose of 2.1		A functional requirement refers to technical details and other specific functionality that			
= -		define what a product variation is supposed to accomplish. Per product variation, the requirement			
		should describe the typical user, specific characteristics of the product (in addition to the general			
		features above) as well as the requirements for standard configuration of the product. It is			
		important to focus on performance requirements rather than form factors. It is important to have a			
		clear and specific description of t			
				tc). If applicable, specific context of	
				pecified in the product variations.	
Item	Product variations	Typical user	•	Requirements for standard	
				configuration	
1	Behind-the-ear		Meet amplification needs	1	
	hearing aid with	hearing loss (WHO 2004	for individuals with	response and maximum	
	pre-configured	criteria) in most	specific hearing loss	output (OSPL) that meets	
	ear inserts	communicative	configurations in the mild	requirements of standard	
		environments	to severe range. Include	prescription formulae (such	
			pre-configured (stock or	as Desired Sensation Level	
			disposable) ear inserts	v.5 or National Acoustics	
			that come in a variety of	Laboratories NL2).	
			sizes.	·	
				Frequency range should be	
				from 200 Hz to 4500 Hz	
				(minimum). Overall, hearing	
				aid should meet the	
				parameters shown in Table	
				1. ¹	
2	Behind-the-ear	Adults with mild to	Meet amplification needs	Amplification frequency	
	hearing aid with	profound hearing loss	for individuals with	response and maximum	
	custom	(WHO 2004 criteria) in	specific hearing loss	output (OSPL) that meets	
	earmoulds	most communicative	configurations in the mild	requirements of standard	
		environments	_	prescription formulae (such	
				as Desired Sensation Level	
			1 0 7	v.5 or National Acoustics	
			earmoulds.	Laboratories NL2).	
				Eroquonov ranga shavild ha	
				Frequency range should be	
				from 200 Hz to 4500 Hz	

¹ Preferred profile for hearing-aid technology suitable for low- and middle-income countries, WHO 2017.

				i	
					(minimum). Overall, hearing
					aid should meet the
					parameters shown in Table
	_				1.1
3	-	_		Meet generic	Amplification frequency
			hearing loss (WHO 2004	amplification needs for	response and maximum
	_	-	criteria) in most	individuals with specific	output (OSPL) that meets
	either o	custom	communicative	targeted hearing loss	requirements of standard
	earmou	ulds or	environments	configurations in the mild	prescription formulae (such
	pre-cor	nfigured		to severe range. Include	as Desired Sensation Level
	ear inse	erts		pre-configured (stock or	v.5 or National Acoustics
				disposable) ear inserts	Laboratories NL2).
				that come in a variety of	
				sizes or custom	Frequency range should be
				earmoulds.	from 200 Hz to 4500 Hz
					(minimum). Overall, hearing
					aid should meet the
					parameters shown in Table
_					11.
Purpo	se of 2.2		ar description of general product rability, waterproof, etc).	performance requirements and	l overall qualities (e.g. stability,
2.2 G	ieneral			nge of hearing loss configu	irations, permit measurement
desig			output, are reliable and pack		
_	, irement				
S					
Purpo	se of 2.3	Details of ex commercial		nternational standards should be	e provided here, whether freely or
2.3		Current pr	oduct standards for hearing	aids:	
Stand	dards	IEC 60118	Electroacoustics - Hearing a	ids, several parts in this se	ries may be applicable
		National st	tandards for hearing aid pro	ducts if available or refer	to widely used standards
					on 60118 – series subsections
		for hearing		irectroteerimear commission	STI COLLO
		-			P_ORG_ID,FSP_LANG_ID:130
		- 1	Food and Drug Administrat	ion CFR Title 21, Sec. 801.4	120 Device Labelling, and
		801.421 Co	onditions for Sale.		
		CE standar	rds (or national equivalent) t	for medical devices should	be met.
		Also consid	der:		
			for hearing aids and service		
		Preferred	profile for hearing-aid techr	nology suitable for lower a	nd middle-income countries
		(WHO, 202	-		
Purpo	se of 2.4		of conformity confirms that a pro		
		_	If a certificate is required for the ope), COC (Japan), GCC (USA).	specific assistive product, this is	ntormation should be requested,
		C.S., CL (LUIT	ope,, ede (Japan), dee (OJA).		

Certificate of conformity and standards where the supplied country demands should be provided (for example, a declaration of conformity with the medical durable device directive or the medical durable device regulation of the European Union). If the product does not conform with applicable national or international regulations and standards, the supplier should provide a certificate that the product complies with the requirements in this call for tender and is safe and effective for use by the typical user. The certificate should specify the product, all applied standards, if any, and the name and contact information of the supplier and be provided with the tender. The certificate of conformity is a legal document and should be signed by an authorized person at the supplier. The certificate of conformity should be supplied in English and/or the official language(s) of the tendering jurisdiction. Purpose of 2.5 Lists the relevant scope of information required to identify the appropriate size and weight of the assistive product in its standard configuration (specific dimensions may be given if appropriate). Size and weight are not fixed but the hearing aid dimensions and mass should be indicated such that wearer comfort is assured. Purpose of 2.6 Lists the relevant scope of information that should be provided to service providers (e.g. how to select, assemble, fit, adapt, follow up, maintain, repair, refurbish the assistive product). The desired language(s) in which the technical information should be provided should be stated. Information on how to select, assemble, fit, and adapt the hearing aid, and how to assemble and adapt the pre-programmed hearing aid should be provided. Instructions on how to maintain, service, repair and refurbish the hearing aid should be provided.		
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	DRAFT – DO NOT CIRCULATE FOR USE
2.8	Hearing aids should be able to withstand various weather conditions, including light rain,
Environmen	snow, and dust.
t of use	
	To ensure durability of hearing aids when exposed to water, humidity and/or dust, the Ingress
	Protection (IP) rating (a measure of device tolerance for such environments) should be
	considered if available and hearing aids with ratings appropriate for the end-user
	environment selected. A minimum Ingress Protection (IP) rating for dirt/dust and water
	resistance of 5/6 or greater is desirable.
	Should be able to function in ambient temperatures from +45 to -20 degrees Celsius and
	relative humidity ranging from 0% to 80% (WHO, 2004).
Purpose of 2.9	Refers to the duration of the warranty period and the details of the warranty the manufacturer/supplier should
	provide within the specified period.
2.9	Provided normal reasonable use, the supplier should, during the warranty period and without
Warranty	extra expenses, repair parts which break during product delivery. This warranty comprises all
	spare parts and labour, except for normal wear and tear of the product.
	The warranty period should be a minimum of 1 year. The same should apply for any ear
	inserts, spare parts and/or accessories.
	inserts, spare parts and/or accessories.
	The supplier should cover all transport when repairing the hearing aid.
	The supplier should cover an dransport when repairing the nearing dia.
	Following a reasonable written complaint, the supplier should repair or replace the product
	within 10 working days and not more than 30 working days or other specified.
Purpose of	Refers to the expected duration, in years, of the assistive product. Documents describing how this is ensured
2.10	must be provided.
2.10	Given the purpose of use by typical device wearers, the hearing aid should be designed for a
Lifespan	lifetime of at least 5 years. The supplier should provide information regarding the battery life
	for a typical user.
Purpose of	Lists the scope of information required in packaging and labeling the assistive product. Explains the state of
2.11	assembly the assistive product should be in when received by the end-user. Each hearing aid should be permanently marked with the name of the manufacturer or
2.11	distributor, the model name, serial number and year of manufacture. Unless it is physically
Packaging,	impossible to insert the battery incorrectly, a "+" symbol should be used to indicate the
labelling,	location of the positive terminal (WHO, 2017). The packaging should withstand handling
	during transport (2017).
assembly	during transport (2017).
	The hearing aid should be delivered fully assembled or assembled to such an extent that the
	remaining assembly can be carried out with the use of commonly available equipment. If any
	special tool is required, it should be included with the delivery.
Purpose of	Refers to additional product requirements, depending on the specific assistive product, e.g., material, corrosion-
2.12	resistance, adjustability, foldability, etc.

2.12 Other
product
requirement
S

In the tender, the supplier should provide the following information about the hearing aid:

• Cautionary statements regarding product safety (e.g., high levels of sound output; storage out of reach of small children and animals; proper disposal of batteries).

3. Supply and service requirements

From the information provided below, only those supply and service requirements considered applicable may be used in a procurement bid.

	ction is to describe key supply and service requirements that are needed in order to ensure that received in due time, operational, being maintained/repaired and refurbished.
Purpose of 3.1	Lists the scope of information to be requested on how the assistive product will be transported to the place of delivery.
3.1 Transportation	Information on how the hearing aid(s) will be transported, and who should pay for the transportation, should be provided.
Purpose of 3.2	Specifies the time between placing an order and receiving delivery of the assistive product (e.g. that it should not exceed 30 calendar days).
3.2 Delivery time	The time between placing an order of up to 50 hearing aid(s) and receiving delivery of them should not exceed 30 working days.
Purpose of 3.3	Refers to the specific details of the various accessories and spare parts available for the assistive product, including pricing and availability.
3.3 Accessories and	The supplier should offer the following accessories:
spare parts	 Hearing aid storage container for the end-user.
	 Hearing aid cleaning tools (e.g., small brushes and wires).
	All parts that the hearing aid consists of, and which may be replaced at some stage, should be offered as spare parts. When an accessory consists of one part, the same part should not be offered both as an accessory and a spare part, but only as an accessory. When an accessory consists of several parts that can be replaced, all replaceable parts should be offered as spare parts.
	Spare parts should be made available for a period of at least 5 years after the last order of a hearing aid. The price of the spare parts should be offered per part and not per set or pair.
Purpose of 3.4	Provides information regarding required maintenance services the supplier will provide, including the timeframe and frequency.
3.4 Maintenance	Information about payment per hour, including definitions of when a job starts and finishes; travel expenses, from – to, fee per km, rules when several maintenance jobs are done on the same route; hotel bills; who should provide the spare parts; in cases where the job is done by a sub-supplier, the invoice should be sent by the supplier with the contract. The prices should be according to the contract. (More information may be requested to be provided.)
Purpose of 3.5	Provides information regarding required repairment services the supplier will provide, including the timeframe and frequency.

3.5 Repair	Information about payment per hour, including definitions of when a job starts and
	finishes; travel expenses, from – to, fee per km, rules when several maintenance jobs
	are done on the same route; hotel bills; who should provide the spare parts; in cases
	where the job is done by a sub-supplier, the invoice should be sent by the supplier with
	the contract. The prices should be according to the contract. (More information may be
	requested to be provided.)
Purpose of 3.6	Provides information regarding required refurbishment services the supplier will provide, including the timeframe and frequency.
3.6 Refurbishing	Information about payment per hour, including definitions of when a job starts and
	finishes; travel expenses, from – to, fee per km, rules when several maintenance jobs
	are done on the same route; hotel bills; who should provide the spare parts; in cases
	where the job is done by a sub-supplier, the invoice should be sent by the supplier with
	the contract. The prices should be according to the contract. (More information may be
	requested to be provided.)
Purpose of 3.7	Specifies if training service providers is required by suppliers, and the key elements included in the
	training (e.g. selection, assembly, fit, maintenance and repair of the assistive product). Refers to detailed
2.7.7	training contents or materials, if available and applicable. Information about selecting, assembling, fitting, using and maintaining the hearing aid
3.7 Training of	should be provided to the appropriately trained personnel.
service providers	1 1 1 1 1 1
Purpose of 3.8	Specifies if training users is required by suppliers, and the key elements included in the training (e.g. training to users should include fit, use, maintenance and cleaning of the assistive product). Refers to
	detailed training contents or materials, if available and applicable.
3.8 Training of users	Information on safe use, cleaning, maintenance and when to follow-up on hearing aids
	should be made available to users in paper form or electronically. Users should be
	encouraged to consult the appropriately trained personnel. Caregivers should be
	included in the training. Information regarding when a user should consult with the
	appropriately trained personnel regarding the use of hearings could be provided. Most
	training is provided through the manufacturer's instructions or online video.
Purpose of 3.9	Provides information regarding other supply and service requirements.
3.9 Other supply and	Not applicable in this call for tender.
service requirements	