ASSISTIVE PRODUCT SPECIFICATION FOR PROCUREMENT

Talking/touching watches

Objective:

The objective of this specification is to help organizations in procuring good quality talking/touching watches that are durable and which help individuals with visual impairment to tell time.

World Health Organization

1. Product description

The purpose of this sectidentifiable.	tion is to provide specific key details relevant	t 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	Talking/touching watches	
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 27 12 Clocks and timepieces Devices for measuring, displaying and speaking the time Included are, e.g. portable and non-portable devices, devices with or without an alarm function.	
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 Purpose of 1.4	A talking watch is a timekeeping device that cites time verbally using miniature, inexpensive sound chips that state the time through the auditory mode primarily using synthesized natural human voice and sometimes also features an analog face. Refers to general characteristics of the assistive product that describes its appearance and components.	
1.4 General features	Talking watches have the following features: Plastic/stainless steel body Analog/ digital face Quartz/atomic One button touch English/multilingual talking watches Big dial/ LED light for low vision Talking calendar 12/24-hour formats Water resistant Adjustment for daylight saving and international time zone - automatic/manual Night light Battery operated (e.g. one/two lithium batteries) or solar powered (e.g. use of solar panels on the dial) or USB powered	 Braille features Sturdy minute and hour hands for continuous touching Dial expansion band Touch features Quartz Analog Big dials 12-hour formats Water resistant Adjustment for daylight saving and international time zone - automatic/manual Battery operated (e.g. one/two lithium batteries) or solar powered (e.g. use of solar panels on the dial) or USB powered
Purpose of 1.5	Refers to product models that are included in the	I ne specific APS.
1.5 Inclusion	Talking watches, touching watches, one-button watches, analog/ digital face watches, pendant watches	
Purpose of 1.6	Refers to product models that are excluded in t	`
1.6 Exclusion	Talking clocks, conventional watches without voice generation and braille features, touch screen watches	

Purpose of 1.7	Important, searchable words that relate to the specific assistive product.	
1.7 Keywords	Time management, low vision, blind, organization, scheduling	

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 talking/touching watches.

2.1 Functional requirements

Purpo	ose of 2.1		product variation i typical user, specif requirements for s requirements rath users including e.g	s supposed to accomplish. Per pic characteristics of the product tandard configuration of the properties than form factors. It is important to the condition, functional lindicable, specific context of use (expenses to the condition).	s and other specific functionality that define what a product variation, the requirement should describe the (in addition to the general features above) as well as the oduct. It is important to focus on performance tant to have a clear and specific description of the typical nitation or demographics (range of age, body weight, e.g. indoor/outdoor, in noisy environment, etc) should be
Item	Product		Typical user	Specific characteristics	Requirements for standard configuration
	variations	;			
1	Atomic wa	atches	Complete loss	Uses radio signals from an	Analog/digital dial tells time in 12/24-hour
	(talking)		of vision in one/both eyes (total blindness)	atomic clock to self-set time accurately	format, daylight saving accommodation, self- illuminates with a button, hourly alarms possible, date/year announcement, voice chip that reads the time out in a male/female voice clearly and loudly
2	Atomic wa (touching))	Partial/ complete loss of vision	Uses radio signals from an atomic clock to self-set time accurately	Sturdy hour and minute hands for frequent touching, self-illuminates with a button, hourly alarms possible, raised tactile markings that help tell time through touch
3	Quartz wa (talking)		of vision in	Uses an electronic oscillator controlled by a quartz crystal	Analog/digital dial tells time in 12/24-hour format, self-illuminates with a button, hourly alarms, date/year announcement, voice chip that reads the time out in a male/female voice clearly and loudly
4	Quartz wa	tches	Partial/	Uses an electronic	Sturdy hour and minute hands for frequent
	(touching)		complete loss	oscillator controlled by a	touching, self-illuminates with a button, hourly
			of vision	quartz crystal	alarms possible, raised tactile markings that help tell time through touch
Purpo	S	strength,	durability, waterp	roof, etc).	requirements and overall qualities (e.g. stability,
2.2 @	0	_			ce announcing time in either 12/24-hour
desig	J		_		h of a button. Touching watches should be
requ	S	should	be easy to use.		y hands in the analog face. Both watches
Purpo			f existing or in-proរុ cially available.	gress national or international st	candards should be provided here, whether freely or

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2.3 Standards	Talking/touching watches should comply with and be tested according to relevant national or international standards. Tests should be carried out by accredited watchmakers.
	If touching/talking watches do not comply with or are not tested according to relevant national
	or international standards, an explanation should be provided. Documents that provide detailed reports of tests performed, should also be provided.
	All documentation should be in the official language or in English (other languages could be
-	specified too). A copy in braille could be provided.
Purpose of 2.4	A certificate of conformity confirms that a product conforms to applicable national and/or international regulations. If a certificate is required for the specific assistive product, this information should be requested, e.g., CE (Europe), COC (Japan), GCC (USA).
2.4 Certificate	A certificate that the product conforms with applicable national or international regulations and
	standards should be provided (for example, a declaration of conformity with the medical device
or comornity	directive or the medical 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 provided in the official language or in English (other
D	languages could be specified too). A copy in braille could be provided.
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).
2.5 Size and	Information about the overall width, height, length and weight of talking/touching watches
weight	should be provided. The radius of the dial for different types of watches (male, female, child, low
	vision) should be provided. For touching watches, the height of the tactile dot and numbers
	should be mentioned. The size and weight of the case should be provided. Package dimensions
	and weight should also be provided.
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.
2.6 Technical	Information on battery type, procedure to change the battery, set the time, alarm, language and
information	gender of the voice announcing time should be provided. Instructions on how to maintain,
	service, repair and refurbish the talking/touching watches should be provided.
	The technical information should be provided in the official language or in English (other
	languages could be specified too). A copy in braille could be provided.
Purpose of 2.7	Lists the scope of information, and its format, that should be provided to end-users to show how to safely use the assistive product.
2.7	A user manual with instructions for use of the talking/touching watches should be provided by
Instructions	the supplier. It should provide instructions on how to safely and effectively use the product, and
for use	how to maintain, battery requirements and changing procedure and clean it. It is intended for
	the user and/or caregiver.

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	The user manual may be provided in print or electronic format. A copy in braille should be
	provided. The user manual should be provided in the official language, and if applicable, in
	English (other languages could be specified too).
Purpose of 2.8	Refers to the various weather and other environmental conditions, e.g., temperatures, humidity, rain, snow,
•	sunshine, that the assistive product should be able to withstand.
2.8	Talking/touching watches should withstand various weather conditions, including rain, dust,
Environment	snow, ice and sleet. They should absorb shock as well. They should also withstand ambient
of use	temperatures from +40 to -30 degrees Celsius and relative humidity ranging from 15% to 100%.
or asc	temperatures from 140 to 30 degrees deisids and relative number of unifing from 1570 to 15070.
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 Warranty	Provided normal heedful use, the supplier should, during the warranty period and without extra
	expenses, repair parts which break on the products delivered. This comprises all spare parts and
	labour, except for normal wear and tear of the product.
	The warranty period should be at least 6 months after delivery of the talking/touching watches.
	The same should apply for spare parts and accessories.
	The same should apply for spare parts and accessories.
	The supplier should cover all transport expenses when repairing talking/touching watches.
	Following a verbal or written complaint, the supplier should repair or replace the product within
- 6-1-	30 working days.
Purpose of 2.10	Refers to the expected duration, in years, of the assistive product. Documents describing how this is ensured must
2 10 Lifespan	be provided. Given the purpose of use by typical users, talking/touching watches should be designed for a
2.10 Lifespan	
	lifetime of at least 2 years. Documents describing how this is ensured should be provided. A copy
5 (244	in braille could also be provided.
Purpose of 2.11	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 talking/touching watch should be delivered in an individual package with a label clearly
Packaging,	stating details of the product. All necessary parts should be included in the package. Provisions
labelling, and	should be made to add labels in braille when needed.
state of	
assembly	The package should withstand handling during transport.
	The talking/touching watches should be delivered with an intact battery. If the battery is
	provided separate from the watch, then instructions on inserting batteries should be provided
	and the watch should be easy to open and navigate with the use of commonly available tools.
	Special instructions to seek professional help should be provided when necessary.
Purpose of 2.12	Refers to additional product requirements, depending on the specific assistive product, e.g., material, corrosion-
	resistance, adjustability, foldability, etc.
2.12 Other	In the tender, the supplier should provide the following information about the talking/touching
product	watches:
requirements	
requirements	hourly time announcement
	calendar announcement (date/month/year)
	adjustable strap size
	LED light on/off procedures
	power saving mode
•	

3. Supply and service requirements

The purpose of this	s section is to describe key supply and service requirements that are needed in order to ensure that the
assistive product is	received in due time, operational, being maintained/repaired and refurbished. From the information
	nly those supply and service requirements considered applicable may be used in a procurement bid.
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	Information on how the talking/touching watches will be transported should be provided and
Transportation	who should pay for the transportation.
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 200 talking/touching watches and receiving
	delivery of them should not exceed 30 calendar 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	The supplier should offer the following accessories:
and spare parts	Batteries (lithium 1-2)
and spare parts	Microfiber cleaning cloth
	Watch case
	• Water case
	All parts that the talking/touching watches consists of, and which may be replaced at some
	stage, should be offered as spare parts. The supplier should state which variations of
	talking/touching watches the accessories and spare parts are meant for. 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 2 years after the last order of a talking/touching watch. 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 repair jobs are done on the same
	route; hotel bills; who should provide the spare parts; in cases 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
3.5 Repair	and frequency. Information about payment per hour, including definitions of when a job starts and finishes;
o.o nepan	travel expenses, from – to, fee per km, rules when several repair jobs are done on the same
	route; hotel bills; who should provide the spare parts; in cases 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
3.6 Refurbishing	Information about payment per hour, including definitions of when a job starts and finishes;
2.0 VEININISIIIIB	travel expenses, from – to, fee per km, rules when several repair jobs are done on the same
	route; hotel bills; who should provide the spare parts; in cases 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.)
	Jaccording to the contract. (whole information may be requested to be provided.)

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 training contents or materials, if available and applicable.
Information about fitting, maintaining, and repairing the talking/touching watch should be
provided to the service provider.
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.
Information about using and maintaining the talking/touching watch should be provided to
the end-user.
Provides information regarding other supply and service requirements.
Not applicable in this call for tender.