ASSISTIVE PRODUCT SPECIFICATION FOR PROCUREMENT

Magnifiers, Optical

Objective:

The objective of this specification is to help organizations in procuring good quality optical magnifiers that are durable and which assist the individuals with visual impairment in performing their near tasks comfortably.

World Health Organization

1. Product description

identifiable.	Name of product as per WHO priority APL and/or commonly used names.		
Purpose of 1.1	Name of product as per WHO priority APL and/or commonly used names.		
1.1 Name of product	Magnifiers, optical		
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	ISO 22 03 09 Magnifier glasses, lenses and lens systems for magnification Devices for enlarging the image of an object Included are, e.g. lenses with and without illumination, loupe glasses (spectacles).		
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 optical magnifier is a device which can produce magnified or enlarged images of close objects and print. It is commonly used by people with impaired vision that cannot be improved by ordinary spectacle lenses. A magnifying lens or lens system in the magnifier is crucial in producing the enlarged image. The lens or lens system is housed in a lens mount designed for different types of magnifiers according to the purpose of use. The common types are hand-held, stand. There are other kinds of designs.		
Purpose of 1.4	Refers to general characteristics of the assistive product that describes its appearance and components.		
1.4 General features	A convex lens of positive power to produce magnifying effect. It can be a lens system with more than one lens. The common range of magnifying power/magnification in general is from 4 dioptres (D) to 76 D, or from 1 time (X) magnification to 19X. A lens mount is usually used to hold the lens to allow handle, stand etc. to be attached to it to make it a hand-held or stand magnifier. Light sources are added to some of the magnifiers to give adequate amount of brightness and contrast to the users. These are called illuminated magnifiers.		
Purpose of 1.5	Refers to product models that are included in the specific APS.		
1.5 Inclusion	 Magnifying lenses adapted to common household appliances or daily living items. Magnifying lenses mounted on stands, illuminated and non-illuminated. Handy and portable magnifiers (pocket magnifiers) with lenses that are foldable or retractable into soft or hard casing, that could have a string attached to the handle to allow wearing on neck. 		
Purpose of 1.6	Refers to product models that are excluded in the specific APS.		
1.6 Exclusion	 Head-borne magnifier that can free both hands for more manipulative tasks and provide longer viewing distance (please see APS 19-Spectacles for this product variation). Magnifiers or magnifying system for technicians such as watch maker. 		
Purpose of 1.7	Important, searchable words that relate to the specific assistive product.		

1.7 Keywords	Low vision, visual impairment, sight enhancement, hand-held magnifier, stand	
·	magnifier, pocket magnifier, illuminated magnifier	

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 optical magnifiers- stand and hand-held magnifiers.

2.1 Functional requirements

Purpose	of 2.1		ent refers to technical details and	other specific functionality that define what a	
1 d. post 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 the typical users including e.g. health condition, functional limitation or demographics (range of age, body weight, height, etc). If applicable, specific context of use (e.g. indoor/outdoor, in noisy environment, etc) should be specified in the product variations.			
Item	Product	Typical user	Specific characteristics	Requirements for standard configuration	
	variations				
1	Non- illuminated stand magnifier	Children and adults with visual impairment who cannot read or see near targets clearly. Suit people with unsteady hand and easy muscle fatigue, such as elderly persons.	A better magnifier of choice for prolonged use. The supports around the lens mount to make it stand on a surface should be small in size or transparent to avoid obstruction of light onto the viewing materials. Smaller supporting stands can expose more area for better spot writing function of the stand magnifier. Some focusable stand magnifiers have an adjustable lens to target distance to compensate for uncorrected refractive error of the user.	Lens power range: 6D-76D The preferable minimum lens diameter is as follows: ≤ 8D: Greater than or equal to 90 mm >8D to 12D: Greater than or equal to 80 mm >12D to 16D: Greater than or equal to 60 mm >16D to 20D: Greater than or equal to 45 mm >20D to 26D: Greater than or equal to 35 mm >26D to 40D: Greater than or equal to 30 mm ≥40D: Greater than or equal to 26 mm Lens materials: preferably made of lightweight plastic which is scratch resistant. Lens design preferably to be aspheric for better image quality without spherical aberrations. High grade plastic	
2	Illuminated	Children and	A better magnifier of	lens mount and stand. Lens power range: 6D-76D	
_	stand magnifier	adults with visual impairment who cannot read or see the near targets clearly.	choice for prolonged use. Evenly distributed illumination across the target material with suitable brightness and	The preferable minimum lens diameter is as follows: ≤ 8D: Greater than or equal to 90 mm >8D to 12D: Greater than or equal to 80 mm	

		D - + + · · · · · · ·	and an of alastas that are	12D to 10D. Caratau Harris and 11 CO
		Better magnifier	color of choice that can enhance the contrast of	>12D to 16D: Greater than or equal to 60 mm
		who require	target materials and	>16D to 20D: Greater than or equal to 45
		stronger	improve the visual ability of	-
		illumination to	the user. The supports	>20D to 26D: Greater than or equal to 35
				mm
		Suit people with		>26D to 40D: Greater than or equal to 30
		unsteady hand		mm
		and easy muscle		≥40D: Greater than or equal to 26 mm
		fatigue, such as	-	Lens materials: preferably to be made of
		elderly persons.		lightweight plastic and scratch resistance.
		Crossing personner	Smaller supporting stands	Lens design preferably to be aspheric for
				better image quality without spherical
			better spot writing function	
				High grade plastic lens mount and
				ergonomic handle.
			magnifiers have an	Various illumination sources are available.
			adjustable lens to target	The most common types are Light-
			distance to compensate for	emitting diode (LED), SMD-LED and
			uncorrected refractive	Incandescent.
			error of the user.	LED illumination is preferred in most
				cases. It should be shock resistant and not
				heat generating.
				Regular and rechargeable (eg: high
				capacity nickel metal hydride batteries)
				battery options to be made available.
3	Non-	Children and	A better magnifier of	Range: 4D-56D
				Larger lens diameter
	hand-held	impairment who	Magnification can be	The preferable minimum lens diameter is
	magnifier	cannot read or		as follows:
	gg	see the near		≤ 8D: Greater than or equal to 90 mm
		targets clearly.	The change of lens to	>8D to 12D: Greater than or equal to 80
		,		mm
			_	>12D to 16D: Greater than or equal to 60
			uncorrected refractive	mm
			error.	>16D to 20D: Greater than or equal to 45
		1	l	l .
1			In addition to the	mm
			conventional design, also	mm >20D to 26D: Greater than or equal to 35
			conventional design, also available as: Pocket	>20D to 26D: Greater than or equal to 35 mm
			conventional design, also available as: Pocket magnifiers, chest-support	>20D to 26D: Greater than or equal to 35
			conventional design, also available as: Pocket magnifiers, chest-support magnifiers and pendant	>20D to 26D: Greater than or equal to 35 mm >26D to 40D: Greater than or equal to 30 mm
			conventional design, also available as: Pocket magnifiers, chest-support magnifiers and pendant	>20D to 26D: Greater than or equal to 35 mm >26D to 40D: Greater than or equal to 30 mm ≥40D: Greater than or equal to 26 mm
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			conventional design, also available as: Pocket magnifiers, chest-support magnifiers and pendant	>20D to 26D: Greater than or equal to 35 mm >26D to 40D: Greater than or equal to 30 mm ≥40D: Greater than or equal to 26 mm Lens materials: preferably to be made of lightweight plastic and is scratch resistant.
			conventional design, also available as: Pocket magnifiers, chest-support magnifiers and pendant magnifiers.	>20D to 26D: Greater than or equal to 35 mm >26D to 40D: Greater than or equal to 30 mm ≥40D: Greater than or equal to 26 mm Lens materials: preferably to be made of lightweight plastic and is scratch resistant. Lens design preferably to be aspheric for
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			High grade plastic lens mount and ergonomic handle.
4 Illuminated hand-held magnifier	adults with visual impairment who cannot read or see the near targets clearly. Better magnifier of choice for user who require stronger illumination to	The change of lens to target distance can also compensate the user's uncorrected refractive error. Evenly distributed illumination across the target material of suitable brightness and color can enhance the contrast of target materials and improve the visual ability of the user.	Range: 4D-56D Larger lens diameter The preferable minimum lens diameter is as follows: ≤ 8D: Greater than or equal to 90 mm >8D to 12D: Greater than or equal to 80 mm >12D to 16D: Greater than or equal to 60 mm >16D to 20D: Greater than or equal to 45 mm >20D to 26D: Greater than or equal to 35 mm >26D to 40D: Greater than or equal to 36 mm ≥40D: Greater than or equal to 26 mm Lens materials: preferably to be made of lightweight plastic and is scratch resistan Lens design preferably to be aspheric for better image quality without spherical aberrations. High grade plastic lens mount and ergonomic handle. Various illumination sources are available The most common types are Lightemitting diode (LED), SMD-LED and Incandescent. LED illumination is preferred in most cases. It should be shock resistant and no heat generating. Regular and rechargeable (eg: high capacity nickel metal hydride batteries) battery options to be made available.

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2.2 General	Multiple forms of design in size and shape to suit different task needs. Wide range of
design	magnification for people with different degrees of low vision.
requirements	
'	The lenses should be light in weight, durable and with protective coating against scratches
	and preferably aberration free. The lens mount and body of the magnifier should be made of
	high-quality and durable material to make it long lasting. Built-in illumination could be an
	option to provide adequate amount of light to suit the task need. Well-designed battery
	compartment for the illuminated magnifier to allow easy battery change.
	bomparament for the manimated magnification coop satterly changes
	The magnifier should be ergonomic for use and the overall design should be user friendly.
Purpose of 2.3	Details of existing or in-progress national or international standards should be provided here, whether freely or
1 01 0030 01 2.3	commercially available.
2.3 Standards	Optical magnifiers should comply with and be tested according to relevant national or
2.5 Staridards	international standards. Documents that provide detailed reports of tests performed, should
	also be provided.
	also se provided.
	If optical magnifiers do not comply with or are not tested according to relevant national or
	international standards, an explanation should be provided.
	·
	All documentation should be in the official language or in English (other languages could be
	specified too).
	Constant and distant atom day do for antical page wifice.
	Current product standards for optical magnifier:
	Several international standards are applicable, see ISO standards catalogue for Ophthalmic
	loguinment https://www.ico.org/icc/11/1/1/1///
D f 2 4	equipment https://www.iso.org/ics/11.040.70/x/
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should be provided. 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 properly maintain the magnifier, and how to replace the batteries and light bulb (in for service) for oviders) Information on how to assemble and adapt the magnifier should be provided. Instructions on how to properly maintain the magnifier, and how to replace the batteries and light bulb (in case of changeable incandescent and LED light bulb) of the magnifier should be provided. The technical information should be provided in the official language or in English (other languages could be specified too). Information on the power of the lens should be provided. For the illuminated magnifiers, information on the color temperature of the lighting (e.g. SMD LED), battery type, the required quantity of batteries and the type of power adaptor when using rechargeable batteries should be provided. Information on True Magnification (Power/4) should be included in the label for all hand held magnifiers. Information on voltage should be included in the label for all hand held magnifiers. Information on voltage should be included if power plug is available. List 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 Instructions A user manual with instructions for use of the optical magnifiers (stand and hand-held magnifier) should be provided. It should provide instructions on how to safely and effectively use the product, and how to adapt, maintain and clean the product. It is intended for the user and/or caregiver. The user manual may be provided in print or electronic format. The user manual should be provided in the official language, and if applicable, in English (other languages could be specified too). Refer		DRAFT - DO NOT CIRCULATE FOR USE
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 assemble and adapt the magnifier should be provided. Instructions on how to properly maintain the magnifier, and how to replace the batteries and light bulb (in case of changeable incandescent and LED light bulb) of the magnifier should be provided. The technical information should be provided in the official language or in English (other languages could be specified too). Information on the power of the lens should be provided. For the illuminated magnifiers, information on the color temperature of the lighting (e.g. SMD LED), battery type, the required quantity of batteries and the type of power adaptor when using rechargeable batteries should be provided. Information on True Magnification (Power/A) should be included in the label for all hand held magnifiers. Information on voltage should be included in power plug is available. Lists the scope of information, and its format, that should be provided to end-users to show how to safely use the assistive product. A user manual with instructions for use of the optical magnifiers (stand and hand-held magnifier) should be provided. It should provide instructions on how to safely and effectively use the product, and how to adapt, maintain and clean the product. It is intended for the user and/or caregiver. The user manual should be provided in print or electronic format. The user manual should be provided in the official language, and if applicable, in English (other languages could be specified too). 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. Illuminated and non-illuminated optical magnifiers should be operated under room in direct sunlight. Provided normal heedful use, the supplier should, during the warranty period and without	2.5 Size and weight	•
how to properly maintain the magnifier, and how to replace the batteries and light bulb (in case of changeable incandescent and LED light bulb) of the magnifier should be provided. The technical information should be provided in the official language or in English (other languages could be specified too). Information on the power of the lens should be provided. For the illuminated magnifiers, information on the color temperature of the lighting (e.g. SMD LED), battery type, the required quantity of batteries and the type of power adaptor when using rechargeable batteries should be provided. Information on True Magnification (Power/4) should be included in the label for all hand held magnifiers. Information on voltage should be included if power plug is available. Lists the scope of information, and its format, that should be provided to end-users to show how to safely use the assistive product. It is the scope of information, and its format, that should be provided to end-users to show how to safely use the assistive product. It is sust manual with instructions for use of the optical magnifiers (stand and hand-held magnifier) should be provided. It should provide instructions on how to safely and effectively use the product, and how to adapt, maintain and clean the product. It is intended for the user and/or caregiver. The user manual may be provided in print or electronic format. The user manual should be provided in the official language, and if applicable, in English (other languages could be specified too). Provided and non-illuminated optical magnifiers should be operated under room in direct sunlight. Purpose of 2.9 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. Illuminated and non-illuminated optical magnifiers should be operated under room in direct sunlight. Purpose of 2.9 Refers to the duration of the warranty period and the details of the warranty the manufacturer/su	Purpose of 2.6	assemble, fit, adapt, follow up, maintain, repair, refurbish the assistive product). The desired language(s) in
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	2.10 Lifespan	
	Purpose of 2.11	

labelling, and state of	The magnifier should be delivered fully assembled. All necessary accessories should be included in the package. If any special tools are required, it should be included with the delivery. Batteries could be included (in case of illuminated magnifiers).
assembly	
	Each magnifier should be delivered in an individual package with a label clearly stating the
	details of the product. The package should withstand handling during transport.
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	The supplier should provide the following information about the optical magnifiers:
product	 Type of optical magnifier and its product code
requirements	Unit price
	 The harmonized system code for import and export use.

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 optical magnifier will be transported should be provided and 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	Delivery time can vary according to the order size, inventory of the supplier and manufacturing lead time. For international delivery it can be affected by shipment method and the customs clearance procedures. The delivery time should be agreed by the supplier and customer.
	In general, after the confirmation of order and payment arrangement, the delivery for domestic order should not exceed 30 working days and the delivery for international order should not to exceed 60 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 spare parts	The supplier should provide the accessories and spares specified in the order (e.g. pouch for magnifier).
Purpose of 3.4	Provides information regarding required maintenance services the supplier will provide, including the timeframe and frequency.
3.4 Maintenance	Not applicable in this call for tender.
Purpose of 3.5	Provides information regarding required repairment services the supplier will provide, including the timeframe and frequency.
3.5 Repair	Not applicable in this call for tender.
Purpose of 3.6	Provides information regarding required refurbishment services the supplier will provide, including the timeframe and frequency.

3.6 Refurbishing	Not applicable in this call for tender.
·	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.
3.7 Training of	Information about assembling, adapting, fitting and maintaining the optical magnifier
service providers	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.
3.8 Training of users	Information about adapting, using and maintaining the optical magnifier should be provided to the end-user.
•	Provides information regarding other supply and service requirements.
3.9 Other supply and	Not applicable in this call for tender.
service requirements	