# ASSISTIVE PRODUCT SPECIFICATION FOR PROCUREMENT

Clubfoot braces

# Objective:

The objective of this specification is to help organizations in procuring good quality clubfoot braces that are durable and which maintain feet position of children with idiopathic clubfoot.

World Health Organization

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# 1. Product description

The purpose of this secti identifiable.	on 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	Clubfoot braces
Purpose of 1.2	As per ISO 9999 classification and terminology document (refer <a href="https://www.iso.org/standard/60547.html">https://www.iso.org/standard/60547.html</a> ).
1.2 ISO 9999 code	06 12 06 Ankle-foot orthoses* Orthoses that encompass the ankle joint and the whole or part of the foot * this ISO code includes ALL ankle-foot orthoses; club foot braces doesn't have haven't a specific code
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	Clubfoot braces are used to maintain correction of the foot position following the corrective phase of clubfoot treatment in infants (0-12 months) and children (1-5 years of age). The Ponseti method of treatment, which is the most widely accepted treatment for idiopathic clubfoot in children of pre-walking age, consists of:  • Corrective phase: serial manipulation and casting of the feet to address cavus, adductus and varus deformities in the foot and ankle. This is followed by Achilles tendon tenotomy in the majority of cases, to address equinus in the ankle joint.  • Maintenance phase: use of a foot abduction brace, which holds the feet in the corrected position in order to prevent recurrence of the deformity.  Clubfoot braces are made up of specially made shoes attached to a bar which holds the feet apart, at shoulder width, in a position of abduction and dorsiflexion.
Purpose of 1.4	Refers to general characteristics of the assistive product that describes its appearance and components.
1.4 General features	There are several different types of clubfoot braces. Some braces are modular, and others come as a single, pre-fabricated unit.  The bar may be extendable or not. Shoes may or may not be detachable from the bar. The shoes are usually made of leather or strong fabric. There are various types of shoe closure with hooks and loops (e.g. Velcro), straps and buckles or shoelaces. Heel cup, or well-rounded heel counter. An inspection hole on the medial side. A fastener to close the shoe and hold the foot firmly in position within the shoe. These could be straps and buckles, hook and loop closure (such as Velcro) or laces.
Purpose of 1.5	Refers to product models that are included in the specific APS.
1.5 Inclusion	<ul> <li>Clubfoot braces that hold both feet in a position of abduction and dorsiflexion in shoes attached to a bar.</li> </ul>
Purpose of 1.6	Refers to product models that are excluded in the specific APS.
1.6 Exclusion	Unilateral clubfoot braces.
Purpose of 1.7	Important, searchable words that relate to the specific assistive product.

Clubfoot, CTEV, Ponseti, Foot Abduction Brace, Clubfoot brace

# 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 clubfoot braces.

### 2.1 Functional requirements

Purpose (	of 2.1		define what a requirement s to the general product. It is i important to be condition, fun applicable, spe	product variation is suphould describe the typing features above) as well mportant to focus on phave a clear and specific ctional limitation or de	chnical details and other specific functionality that pposed to accomplish. Per product variation, the ical user, specific characteristics of the product (in addition II as the requirements for standard configuration of the erformance requirements rather than form factors. It is c description of the typical users including e.g. health mographics (range of age, body weight, height, etc.). If g. indoor/outdoor, in noisy environment, etc.) should be
Item	Product	variations	Typical	Specific	Requirements for standard configuration
_			user	characteristics	
1	Clubfoot		-	Fixed bar (width	The length of the bar should be set so that the
	1	of shoes	age 5 who	_	child's heels are shoulder width apart.
		l to a bar	has	optional).	
			•		The angle of abduction of the shoe on the bar is
		der width	the	Feet held in	usually set to 60-70 degrees.
	-	a position	corrective		The angle of dorsiflexion of the shoe on the bar is
		tion and	phase of		set to 10-15 degrees dorsiflexion.
	dorsiflex	ion.	clubfoot	·	For unilateral cases, the angle of abduction is 60-
			treatment.	•	70 degrees in the affected foot and in the
		_			unaffected foot is normally set to 30-40 degrees.
Purpose	of 2.2		r description o ability, waterpr		rmance requirements and overall qualities (e.g. stability,
2.2 Gen	eral	The clubfoo	t brace shou	uld be easy for pare	nts to fit on the child, able to fasten firmly enough
design		to keep the	child's heels	s down within the s	hoes, it should be light weight, strong, durable
require	ments	_	clean. The bears of and dorsif		g enough to maintain the shoes/feet in a position
		<ul> <li>A mand,</li> <li>Feat</li> <li>A loom</li> <li>mat</li> <li>Then</li> </ul>	or medial recures to prevolutes to prevolute for medial recorded to the control of the control o	renting forefoot add einforcement of the vent the heel slippin cut (of the heel par large shoelace hole	ng up inside the shoe, such as: t) if the shoe is made of a strong/non-flexible es or eyelets if laces are used.
Purpose	of 2.3		ting or in-prog		red in the brace (open toed shoes). Itional standards should be provided here, whether freely or

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2.3 Standards	Clubfoot braces should comply with and be tested according to relevant and available national or international standards. Tests should be carried out by accredited test laboratories. If clubfoot braces do not comply with or are not tested according to relevant national or international standards, an explanation should be provided, (e.g. testing facilities may not exist). If a clubfoot brace does not comply with national or international standards, the supplier is liable for any damages and injuries caused by a product that is used according to its purpose by the typical user as stated above.
	At the time of writing there are no applicable ISO product standards for clubfoot braces, although manufacturers may comply with ISO 13485 and/or EN 12182.
	For the European market, CE marking of clubfoot braces according to Medical Device Directive/Regulation is required.
	All documentation should be in the official language or in English (other languages could be specified too).
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 of conformity	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 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 supplied in the official language or in English (other languages could be specified too).
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).

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2.5 Size and	Information about the overall width, height, length and weight of clubfoot braces should be
weight	provided. If adjustable, the minimum and maximum adjusted sizes for each product should
	be provided.
	There are two parts to clubfoot braces which have variable dimensions: the shoes and the
	bar.
	Shoes should be provided in a range of sizes to meet the needs of infants (0-12 months) and
	children (1-5 years of age). For example, clubfoot brace shoes that are currently available
	range in foot bed length from 6.4 cm to 20.4 cm.
	Bars should be provided in a range of sizes to meet the needs of infants (0-12 months) and
	children (1-5 years of age). For example, clubfoot brace bars that are currently available
	range in width from 12 cm to 38 cm. If the bar width is not adjustable, information should
	be provided about the increments in sizes (cm) between the available bar widths.
	be provided about the mareine in sizes (only between the available bar matris.
	The weight of the clubfoot brace when the shoes are attached to the bar should be
	provided. As an example, of the clubfoot braces that are currently available, the smallest
	assembled size ranges from 110-320 grams, and the largest assembled size ranges from 270-
	650 grams.
Purpose of 2.6	Lists the relevant scope of information that should be provided to service providers (e.g. how to select,
1 di pose oi 2.0	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 C Tachrical	Information on how to select, assemble, fit, and adapt the clubfoot brace should be
2.6 Technical	provided. Instructions on how to maintain, service, repair, and refurbish the clubfoot brace
information (for	should be provided. Instructions on how the brace should be worn, across ages 0-5 should
service	
providers)	be provided (e.g. for children of pre-walking age, the brace is usually used for 23/24 hours
	for 12 weeks immediately following the corrective phase of treatment, and then during sleep
	time until age 4-5).
	The technical information should be agained in the official language on in Faciliah (athor
	The technical information should be provided in the official language or in English (other
5 (27	languages could be specified too).
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 In atractica	A user manual with instructions for use of the clubfoot brace should be provided by the
2.7 Instructions	supplier. It should provide instructions on how to safely and effectively use the product, and
for use	
	how to service, maintain and clean it. It is intended for the user and/or care-giver.
	The user manual may be provided in print or electronic format
	The user manual may be provided in print or electronic format.
	The user manual should be provided in the official language or in English (ather language
	The user manual should be provided in the official language or in English (other languages
Durnoso of 2.9	could be specified too).  Refers to the various weather and other environmental conditions, e.g., temperatures, humidity, rain, snow,
Purpose of 2.8	sunshine, that the assistive product should be able to withstand.
2.8 Environment	
of use	conditions.
Purpose of 2.9	Refers to the duration of the warranty period and the details of the warranty the manufacturer/supplier should
1 di pose di 2.5	provide within the specified period.

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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 of 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 clubfoot brace. The
	same should apply for spare parts and accessories. Documents describing how this is ensured should be provided.
Purpose of 2.10	Refers to the expected duration, in years, of the assistive product. Documents describing how this is ensured must be provided.
2.10 Lifespan	Given the purpose of use by typical users, the clubfoot brace should be designed for a
	lifetime of at least 6 months.
Purpose of 2.11	Lists the scope of information required in packaging and labeling the assistive product. Explains the state of assembly the assistive product should be in when received by the end-user.
2.11 Packaging,	Each clubfoot brace should be delivered with a label clearly stating details of the product. All
labelling, and	necessary parts should be included in the package.
state of	
assembly	The package should withstand handling during transport.
	The clubfoot brace 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 screwdrivers or wrenches. If any special tool is required, it should be included with the delivery.
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	Not applicable in this call for tender.
product	
requirements	

# 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.

The purpose of this 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.		
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 clubfoot brace 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	The time between placing an order of clubfoot braces 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.	

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3.3 Accessories and	For modular clubfoot braces, the supplier should offer the following accessories and
spare parts	spares:
	<ul> <li>Spare bars, shoes, bar and shoe connectors, screws and other assembly parts</li> </ul>
	The following may also be offered:
	Padding for the bar
	<ul> <li>Strap saddles to prevent pressure sores on the skin</li> </ul>
	• Shoelaces
	All parts that the clubfoot brace consists of, and which may be replaced at some stage,
	should be offered as spare parts. The supplier should state which variations of the
	clubfoot brace 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.
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 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 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 timeframe and frequency.
3.6 Refurbishing	Information about payment per hour, including definitions of when a job starts and
5.6 Refulbishing	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 3.7	Specifies if training service providers is required by suppliers, and the key elements included in the
1 41 pose 01 5.7	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 on how to assemble, fitting, maintain, clean, repair, and instruct
service providers	caregivers/parents in the use of clubfoot braces should be provided to service providers.
	(e.g. for training resources, please see Africa Clubfoot Training
	http://www.globalclubfoot.org/training and other sources, such as
	http://www.ponseti.info/bracing-tips.html and https://global-help.org/?s=clubfoot)
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.

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•	Information on how to safely and effectively use clubfoot braces, and how to service, maintain and clean should be provided to the end-user.
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	