

Section II: Schedule of Requirements

eSourcing reference: ITB - Delivery of bio medical equipment for the Tanzania Blood Transfusion Service (6 lots) ITB/2023/47784

This ITB refers to the provision of bio medical equipment for the Tanzania Blood Transfusion Service For the Ministry of Health and to be used by the National Blood Transfusion Services (NBTS) in 7 zonal blood transfusion centers in Tanzania.

Locations in Tanzania :

- 1) Lake Zone (SZBTC-Mwanza), **Mwanza-Nyamagana Opposite Bugando Medical Centre**
- 2) Northern Zone (NZBTC-Moshi), **Moshi, Opposite KCMC Hospital**
- 3) Southern Highland (SHSBTC- Mbeya), **Within Meta Maternity Hospital**
- 4) Western Zone (WZBTC-Tabora), **Besides Tabora Regional Referral Hospital (Kitete)**
- 5) Eastern Zone (EZBTC-Dar es Salaam), **Dar es Salaam Ilala, Max Mbwana Street**
- 6) Southern Zone (SZBTC-Mtwara) **Within Ligula Hospital**
- 7)TPDF (Tanzania People's Defense Forces) **located at Lugalo Military Hospital in Dar es Salaam**

A. Summary of Requirements

UNOPS requirements comprise the following lots::

- Lot 1: Refrigerated Centrifuge machine
- Lot 2: Automated Plasma Extractor
- Lot 3: Bench Top Tube Sealer
- Lot 4: Platelet Concentrates Agitator Machine
- Lot 5 : Electronic digital weighing scale
- Lot 6 : Bench top Centrifuge

Particular information:

- **The MoH will handle the Installation, test and commissioning under the guidance of the supplier's / manufacturer's authorised local agent(s).**
- **Equipment will be inspected by UNOPS , at the facilities, in the 7 locations**
- **In the event of one bidder being awarded contracts for more than one lot, please indicate the volume discount, in percentage - discount must be included in the Form B - Bid submission form of the returnable schedules**
- **UNOPS reserves the right to arrange its own freight and insurance, however, bidders are required to quote for freight, insurance, custom clearance and unloading as indicated on the price schedule - FORM C Pricing Sheet revision 1**

B. Technical specifications for Goods and Comparative Data Table - to be reported in FORM D of the returnable schedules

Standards for workmanship, process, material, equipment, and references to brand names or catalog numbers specified by UNOPS are intended to be descriptive only and not restrictive. Bidders may offer other standards of quality, brand names, and/or catalog numbers, provided that it demonstrates, to UNOPS's satisfaction, that the substitutions ensure substantial equivalence or are superior to the equipment/devices specified and are fit for the intended purpose.

All equipment must meet the certification requirement mentioned in the detailed technical requirements (valid certificate to be submitted with the offer) and equipment must come in the original manufacturer's packaging.

For certificates that have expired over the last 6 (six) months, UNOPS will accept documentary evidence that the suppliers/manufacturers have applied for their renewal prior to the bid closing date of this ITB-2023-47784. The same documentary evidence will be accepted for certificates that will be expiring.

This applies to each lot.

Lot No 1: Refrigerated Centrifuge machine

Item No	UNOPS minimum technical requirements	Qty	Is bid compliant? Bidder to complete	Details of goods offered. Bidder to complete
1	Refrigerated Centrifuge machine	7 (1 per zonal center)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Insert details of goods offered, including specifications and brand/model offered if applicable
	Optimal blood bag capacity: 16 of 500mL hence provided rotor and adaptors should be suitable for this capacity			
	Internal Memory for Minimum of 5 programs.			
	The door should be equipped with a view port and a safety interlock.			
	The integrated rotor detection system must ensure that no inadmissible speed settings can be pre-selected.			
	Should have electronic imbalance detection.			
	Should be equipped with a door emergency release.			
	The housing and rotor chamber consist of steel plate, the interior of armour steel, while the front panel is made of high-impact resistant plastic.			
	Power 220V-240VAC ,frequency 50/60 Hz, single phase			
	Permissible Ambient Temperature range +2 °C to +40 °C.			

	RPM to RCF conversion mode		
	Speed: Maximum RCF 10,000xg		
	Temperature Setting Range -9 °C to +40 °C.		
	Should allow Temperature Regulation during Standstill, Pre-Temp, and PULSE modes		
	CFC-free refrigerant		
	Profile: Acceleration 9 and Deceleration/Braking 9		
	Dimensions: Approx Height ≤960 mm, Width ≤680 mm, Depth ≤720 mm		
	Run time range from 0 to ≥ 40 minutes with a setting resolution of 1 minute		
	Temperature accuracy ±1°C		
	Standards and certifications		
	The medical equipment should be CE marked as a medical device according to MDD 93/42/EEC or MDR 2017/745. The US FDA approval is an acceptable alternative to the EU CE		
	The medical equipment must be manufactured under a QMS ISO 9001 and ISO 13485 . A valid and verifiable certificate copy should be provided		
	A letter of authorization from the manufacturer or authorized distributor to be provided and demonstration of local presence either in Tanzania or in the region		
	The equipment will have to be declared as acceptable for use in Tanzania as per the Tanzania regulatory authorities		
	The equipment electrical requirements to be compatible with the Tanzania standards i.e 240VAC / 50Hz with 3-pin square power plug		
	The device should be tested for electrical safety to BS EN 60601-1		
	Warranty: 1 year including a valid calibration certificate and including spare parts and preventive and curative maintenance activities		
	For completeness, the required buckets, rotors, adapters and tube holders should be supplied with the equipment as accessories		

Lot No 2: Automated Plasma Extractor

Item No	UNOPS minimum technical requirements	Qty	Is bid compliant ? Bidder to complete	Details of goods offered. Bidder to complete
1	Automated Plasma Extractor	14 (2 per zonal center)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Insert details of goods offered, including specifications and brand/model offered if applicable
	Suitable to extract blood components (plasma, platelets) from collection blood bags.			
	Cabinet to be made of Stainless steel to withstand corrosion and wear & tear on continuous usage.			
	The front panel should be spring loaded with a parallel transparent acrylic compressor plate.			
	Heavy duty spring with tension adjustment provision.			
	Compression plate designed to exert uniform pressure on the blood bag.			
	Compact built, light weight, simple and easy to operate			
	Motor activated clamping			
	Adaptive optical sensor for different types of plasma / blood components			
	Sensor type: infra-red			
	Operation: Automatic Controlled by PID (Programmable) microprocessor based controller			
	Highly sensitive sensor for instant sensing between transfers of blood components.			
	Alarms: audio, visual & stop separation if different components are transferred.			
	The expressor is compatible with different types, sizes and designs of bags			
	Power requirement: 220-240 VAC, 50/60Hz, single phase			
	Dimensions : Height ≤50.5 cm, Width ≤ 45.5 cm, Depth≤ 53 cm			
	Standards and certifications			
	The medical equipment should be CE marked as a medical device according to MDD 93/42/EEC or MDR 2017/745. The US FDA approval is an acceptable alternative to the EU CE			

	The medical equipment must be manufactured under a QMS ISO 9001 and ISO 13485 . A valid and verifiable certificate copy should be provided			
	A letter of authorization from the manufacturer or authorized distributor to be provided and demonstration of local presence either in Tanzania or in the region			
	the equipment will have to be declared as acceptable for use in Tanzania as per the Tanzania regulatory authorities			
	the equipment electrical requirements to be compatible with the Tanzania standards i.e 240VAC / 50Hz with 3-pin square power plug			
	The device should be tested for electrical safety to BS EN 60601-1			
	Warranty: 1 year including spare parts and preventive and curative maintenance activities			

- Lot 3: Bench Top Tube Sealer**

Item No	UNOPS minimum technical requirements	Qty	Is bid compliant? Bidder to complete	Details of goods offered. Bidder to complete
1	Bench Top Tube Sealer	21 (3 per zonal center)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Insert details of goods offered, including specifications and brand/model offered if applicable
	Bench top tube sealer for sealing blood bag pilot tubing:			
	Compact, heavy duty and lightweight tube sealing device with high quality seals			
	Error indicator at the top of the device for quick visibility			
	Optical tube detection which enables precise sealing,			
	Detachable clamp cover with integrated splash guard			
	Should be capable to seal PVC tubing up to 6.0mm (0.23 inches).			
	Sealing Time: 0.5s - 3 seconds depending on tubing.			
	Size of the sealer should be Approx(WxHxD): ≤70mm x ≤215mm x ≤335mm and Weight: 3.6-5 kg.			
	Power requirement: 220-240VAC, 50/60Hz, Single phase			
	Operating conditions: Temperature -10°C up to +40°C and Relative Humidity upto 80%			
	Accessories : Power cable and communication cable			
	Standards and certifications			
	The medical equipment should be CE marked as a medical device according to MDD 93/42/EEC or MDR 2017/745. The US FDA approval is an acceptable alternative to the EU CE			
	The medical equipment must be manufactured under a QMS ISO 9001 and ISO 13485 . A valid and verifiable certificate copy should be provided			
	A letter of authorization from the			

	manufacturer or authorized distributor to be provided and demonstration of local presence either in Tanzania or in the region			
	the equipment will have to be declared as acceptable for use in Tanzania as per the Tanzania regulatory authorities			
	the equipment electrical requirements to be compatible with the Tanzania standards i.e 240VAC / 50Hz with 3-pin square power plug			
	The device should be tested for electrical safety to BS EN 60601-1			
	Warranty: 1 year including spare parts and preventive and curative maintenance activities			

● **Lot 4: Platelet Concentrates Agitator Machine**

Item No	UNOPS minimum technical requirements	Qty	Is bid compliant? Bidder to complete	Details of goods offered. Bidder to complete
1	Platelet Concentrates Agitator Machine	7 (1 per zonal center)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Insert details of goods offered, including specifications and brand/model offered if applicable
	Should be designed to support continuous agitation at a set temperature of 20-24°C, therefore the agitator should have temperature range of at least 15 to 40 °C.			
	The platelet agitator should be designed so that agitation pauses when the incubator door is opened and automatically resumes when the door is closed.			
	The incubator should be fitted with a toughened glass door for safety and clear visibility of the platelet packs			
	The temperature uniformity inside the incubator cabinet has to attain an accuracy of ±1°C.			
	Temperature controller should permit quick temperature recovery once the door is open and closed			
	Alarms: Temperature out of range, extended door open,			
	Should have inbuilt digital temperature display			
	Should have a chart recorder that records the temperature inside the cabinet.			
	Capacity ≥ 48 bags			
	Should be equipped with Stainless Steel roll out shelves,			
	Power requirements: 220-240VAC, 50/60Hz Single phase			
	Refrigeration system: Air cooled, CFC - free refrigerant and forced air circulation for maintaining constant temperature			
	Standards and certifications			
	The medical equipment should be CE marked as a medical device according to			

	MDD 93/42/EEC or MDR 2017/745. The US FDA approval is an acceptable alternative to the EU CE			
	The medical equipment must be manufactured under a QMS ISO 9001 and ISO 13485 .A valid and verifiable certificate copy should be provided			
	A letter of authorization from the manufacturer or authorized distributor to be provided and demonstration of local presence either in Tanzania or in the region			
	the equipment will have to be declared as acceptable for use in Tanzania as per the Tanzania regulatory authorities			
	the equipment electrical requirements to be compatible with the Tanzania standards i.e 240VAC / 50Hz with 3-pin square power plug			
	The device should be tested for electrical safety to BS EN 60601-1			
	Warranty: 1 year including a valid calibration certificate			

- Lot 5 : Electronic digital weighing scale**

Item No	UNOPS minimum technical requirements	Qty	Is bid compliant? Bidder to complete	Details of goods offered. Bidder to complete
1	Electronic digital weighing scale	7 (1 per zonal center)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Insert details of goods offered, including specifications and brand/model offered if applicable
	Capable of measuring objects weighing between 0-1200g with a resolution of 0.1g			
	Should have an AC adapter included and battery operation option. Batteries to be supplied with the scale			
	Power requirements: 240 VAC, 50 HZ single phase			
	Digital large LCD Display			
	Should have brushed stainless steel weighing surface			
	Should have housing design to direct spills away from the keypad			
	Robust housing design			
	Should have a sealed keypad with raised buttons for tactile feel along with audio function tone			
	Standards: ISO 9001, ISO 13485, EN 60601, CE marking as a medical device as per MDD 93/42/EEC, FDA etc			
	Standards and certifications			
	The medical equipment should be CE marked as a medical device according to MDD 93/42/EEC or MDR 2017/745. The US FDA approval is an acceptable alternative to the EU CE			
	The medical equipment must be manufactured under a QMS ISO 9001 and ISO 13485 . A valid and verifiable certificate copy should be provided			
	A letter of authorization from the manufacturer or authorized distributor to be provided and demonstration of local presence either in Tanzania or in the region			

	the equipment will have to be declared as acceptable for use in Tanzania as per the Tanzania regulatory authorities			
	the equipment electrical requirements to be compatible with the Tanzania standards i.e 240VAC / 50Hz with 3-pin square power plug			
	The device should be tested for electrical safety to BS EN 60601-1			
	Warranty: 1 year including a valid calibration certificate and including spare parts and preventive and curative maintenance activities			

● **Lot 6 : Benchtop Centrifuge**

Item No	UNOPS minimum technical requirements	Qty	Is bid compliant? Bidder to complete	Details of goods offered. Bidder to complete
1	Benchtop Centrifuge	14 (2 per zonal center)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Insert details of goods offered, including specifications and brand/model offered if applicable
	Capacity: Loading capacity 4L (4x10mlx100 tubes); 5-10 mls tubes not less than 100 with at least 4 loads (arms of the rotor) at once			
	Robust structure with stainless steel housing preferable			
	Rotor: Swing-rotor with buckets and relevant tube holder / adapter for the required capacity should be provided			
	Should have electronic imbalance detection.			
	Should be equipped with a door emergency release.			
	Maximum speed (RPM) should be not less than 12,000 rpm			
	Maximum speed (RCF) should be not less than 10,000xg			
	Acceleration Decceleration Profile: 9/9			
	Time settings 99hours, 59min with 1 min increment			
	Memory: At least 99 Items			
	Micro processor controlled			
	Drive System; Brushless induction drive			
	Approx. Dimensions: (WxDxH) ≤80cm x ≤50cm X ≤40 cm, Weight: Net weight ≤ 200kgs			
	Power supply 220-240VAC, 50/60Hz single phase with power saving mode			
	Working environment; Temp +9 to +40°C and Humidity 30 to 85%			
	Standards and certifications			
	The medical equipment should be CE marked as a medical device according to MDD 93/42/EEC or MDR 2017/745. The US FDA approval is an acceptable alternative to the EU CE			
	The medical equipment must be			

	manufactured under a QMS ISO 9001 and ISO 13485 . A valid and verifiable certificate copy should be provided			
	A letter of authorization from the manufacturer or authorized distributor to be provided and demonstration of local presence either in Tanzania or in the region			
	the equipment will have to be declared as acceptable for use in Tanzania as per the Tanzania regulatory authorities			
	the equipment electrical requirements to be compatible with the Tanzania standards i.e 240VAC / 50Hz with 3-pin square power plug			
	The device should be tested for electrical safety to BS EN 60601-1			
	Warranty: 1 year including a valid calibration certificate and including spare parts and preventive and curative maintenance activities			

C. Delivery requirements and Comparative Data Table - please refer to **ITB 2023/47784 FORM C Pricing Sheet revision 1 for the detail of the costing (for each lot)**

UNOPS Requirements		Is bid compliant? Bidder to complete	Details Bidder to complete
Delivery time	<p>As time is of the essence, bidder shall deliver the goods within 60 to 80 days after Contract signature.</p> <p>If bidders cannot meet the 60-80 day delivery period, please quote the closest but firm delivery period</p> <p>Delivery time to be provided by seafreight and airfreight in ITB 2023/47784 FORM C Pricing Sheet revision 1</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No	Insert details
Delivery place and Incoterms rules	<p>Prices to be provided FCA (please confirm delivery FCA delivery place) and DAP to the each of the 7 zonal center (including freight, insurance, custom clearance and unloading)</p> <p>Prices to be provided by seafreight and airfreight in ITB 2023/47784 FORM C Pricing Sheet revision 1</p> <p>UNOPS reserves the right to arrange its own freight and insurance, however, bidders are required to quote for freight and insurance as indicated on the price schedule.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No	Insert details
Consignee details	UNOPS - Details of address and notifying party will be provided at a contract issuance stage.	<input type="checkbox"/> Yes <input type="checkbox"/> No	Insert details
UNOPS Right to vary requirements	At the time the Contract is awarded, UNOPS reserves the right to vary the quantity of the goods and associated services specified above, provided this does not exceed	<input type="checkbox"/> Yes <input type="checkbox"/> No	Insert details

	+/- 20% , without any change in the unit prices or other terms and conditions of the ITB.		
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D. Related services requirements (for each lot)

UNOPS minimum requirements for services	Is bid compliant? Bidder to complete	Details Bidder to complete
- Despite installation, testing and commissioning will be under MOH responsibility, Bidder is requested to highlight any specific preinstallation conditions	<input type="checkbox"/> Yes <input type="checkbox"/> No	Insert details
- Bidder to provide User and technical manuals to be provided in English as the preferred language	<input type="checkbox"/> Yes <input type="checkbox"/> No	Insert details
- Bidder to provide comprehensive installation, technical, operator / user guides to be made available in advance to NBTS to facilitate preparation of training manuals	<input type="checkbox"/> Yes <input type="checkbox"/> No	Insert details
- The bidder to indicate : the complete details (name, address, email and telephone of a local company or representative that may provide technical assistance if applicable	<input type="checkbox"/> Yes <input type="checkbox"/> No	Insert details
<ul style="list-style-type: none"> - Bidder to provide the training costs : training will be done for technical personnel and the operators (technical and user trainings) to at least two people per site for two days - While bidders are required to quote for training costs, such costs shall be forwarded to the MoH to arrange for training directly with the successful bidder(s). The MoH will be responsible for payment of these training sessions. 	<input type="checkbox"/> Yes <input type="checkbox"/> No	Insert details