

## Section II: Schedule of Requirements

eSourcing reference: **ITB/2025/56465**

The ITB is for the procurement of **Liquide Nitrogen Plant and liquid Nitrogen tank** under **four lots** listed as below.

Lot 1- Cryogenics compact Liquid Nitrogen Plant  
 Lot 2- Laboratory Liquid Nitrogen Tank -200-300lit  
 Lot 3- Laboratory Liquid Nitrogen Tank-1500-2000lit  
 Lot 4- Special Transport Liquid Nitrogen Tank

### Technical specifications for Goods and Comparative Data Table

#### Lot 1-Liquid Nitrogen Plant

<u>Technical Specification</u> <u>Title: Re Bid- Supply, Installation , commissioning and training of</u> <u>Liquid Nitrogen Plant and Tank</u> <u>Ministry of Health / Armour Hanson Research Institute/AHRI</u> <u>Addis Ababa /Ethiopia</u>				Is your product compliant with UNOPS Minimum Requirement?	Technical specification of goods offered by bidder	Remark (note for deviation and description of additional document attached with bidder offer)
UNOPS minimum Requirement						
Lot 1-	Liquid Nitrogen Plant			This column must be completed fully by bidders		
General Description						
	Brand name	Vendor to Specify	Vendor to Specify			
	Model No	Vendor to Specify	Vendor to Specify			
	Manufacturer	Vendor to Specify	Vendor to Specify			
	Country of Origin	Vendor to Specify	Vendor to Specify			
Technical Specification						
	Complete standard configuration:	Air compressor, air buffer vessel, air dryer, air filters, PSA unit, N2 buffer vessels, control system	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Specify			

	Cylinder:	Single	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Specify			
	N2 production purity:	$\geq 99\%$ @ 1 bar	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Specify			
	N2 production rate:	$\geq 9$ L/Hr	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Specify			
	Storage tank capacity:	$\geq 300$ L	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Specify			
	Max pressure in storage capacity:	Max pressure in storage capacity: $\geq 4$ bar g	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Specify			
	Max power consumption:	$\leq 25$ KW	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Specify			
	Max water consumption:	$\leq 1500$ L	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Specify			
	Noise:	$\leq 75$ dB(A)	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Specify			
	Operation:	Fully automated	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Specify			
	Monitoring:	Capability to remote monitoring	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Specify			
	cryogenic parts	All cryogenic parts should be vacuum insulate	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Specify			
	Control system:	Digital	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Specify			
	Control mechanism:	Touch/Keypad, knob	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Specify			
	Cooling Method	Cold water system, refrigerant R134A.	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Specify			
<b>Working Conditions</b>						
	Working environment temperature:	$-10$ °C to $+40$ °C	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Specify			
	Working environment humidity:	$\leq 80\%$ .	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Specify			

	Working altitude above sea level:	≥ 2,400 m	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm			
<b>Following items should be supplied with instrument</b>						
	(i) Manufacturer recommended closed loop chiller	Vendor to Confirm and Specify	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	(ii) Appropriate voltage stabilizer	Vendor to Confirm and Specify	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	(iii) Liquid nitrogen handling package	Vendor to Confirm and Specify	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	(iv) Cryogenic hoses and valves	Vendor to Confirm and Specify	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	(v) Personal protection items (Cryogenic gloves, face shields, aprons, safety glasses)	Vendor to Confirm and Specify	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	(vi) Filters and purifiers	Vendor to Confirm and Specify	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	(vii) Air duct	Vendor to Confirm and Specify	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	(viii) All type of filters and drain units	Vendor to Confirm and Specify	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	(ix) Oxygen monitoring system for room	Vendor to Confirm and Specify	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	(x) Filled He gas cylinder with dual stage regulator	Vendor to Confirm and Specify	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	(xi)Phase separator(optional)	Vendor to Confirm and Specify	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	Consumables	Consumables as may be required for installation, commissioning, start up and trial runs shall be supplied by	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			

		the supplier with the equipment without any extra charges.				
<b>Utility Requirements:</b>						
	<b>Power supply:</b>	220-400 V, 50 Hz, European plug, single and three phase main supply	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>Accessories</b>						
	<b>All standard accessories shall be supplied</b>	Shall include the manufacturer Standard Scope of Supply and all accessories listed in the section of Accessories for this item. ALL Preventive and corrective maintenance tool kits should be included.	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>Installation, Training and Commissioning</b>						
	<b>Installation</b>	Instrument should be installed according to manufacturer instruction at the customer site without any additional cost	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	<b>Training:</b>	Complete training on the operation and maintenance of the instrument is required for officers in the lab at the Consignee (AHRI) instrument site	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	<b>Local Agent</b>	The bidder should have a local agent/dealer to support installation, commissioning and training activities.(mention the contact address of the local agent) If not, it has to commit/agree to arrange a local agent/dealer within a week (7 days) after award.	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>Warranty:</b>						
	<b>Warranty:</b>	2-year comprehensive warranty for the system should be provided from the manufacturer	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>Documentation</b>						
	<b>Data Sheet/ Catalogue</b>	Bidders are required to provide a data sheet for the product model mentioned in their offer.	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			

	<b>Manuals:</b>	One set of operation manual and service manual (English language) should be supplied with instruments.	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>Quality certificates</b>						
	<b>Quality certificates</b>	Shall meet IEC-60204-1(Or Equivalent ) General Requirements of electrical Safety	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
		Manufacturer ISO 9001 certificate issued by a body accredited by the IAF (the English version should be provided with the offer)	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
		The supplier should provide a Certification confirming compliance with ASME Code Section VIII or Pressure Equipment Directive (PED) 2014/68/EU for all pressure vessels	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>Status</b>		The device shall be brand new (Refurbished device will not be accepted)	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>UNOPS the right to vary — Comparative Data Table</b>						
	<b>UNOPS Requirements</b>			<b>Is the bid compliant? Bidder to complete</b>	<b>Details If bidder cannot comply, indicate the reason(s) Bidder to complete</b>	
	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 +/- 20%, without any change in the unit prices or other terms and conditions of the ITB	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm	Insert details	
	Delivery time- FCA- Lot 1	UNOPS prefers the goods to be delivered within within 10-12 weeks under FCA as per Incoterms 2020 after Contract signature	Vendor to Specify	Vendor to Specify	Insert details	
	Delivery time- DAP- Lot 1	UNOPS prefers the goods to be delivered within 12-16 weeks	Vendor to Specify	Vendor to Specify	Insert details	

		under DAP as per Incoterms 2020 after Contract signature			
	Delivery place and Incoterms rules-Bidder confirms to deliver the items to: AHRI, Addis Ababa , Ethiopia. UNOPS reserves the right to award FCA/DAP incoterm depending on the best interest of UNOPS	Bidder's quoted FCA point – FCA (Incoterms 2020)	<input checked="" type="checkbox"/> Yes	Vendor to Specify	Insert details
		DAP (Incoterms 2020).- AHRI Compound, Addis Ababa , Ethiopia	<input checked="" type="checkbox"/> Yes	Vendor to Specify	Insert details

## Lot 2-Laboratory Liquid Nitrogen Tank -200-300lit

<u>Technical Specification</u> <u>Title: Re Bid- Supply, Installation , commissioning and training of</u> <u>Liquid Nitrogen Plant and Tank</u> <u>Ministry of Health / Armour Hanson Research Institute/AHRI</u> <u>Addis Ababa /Ethiopia</u>				Is your product compliant with UNOPS Minimum Requirement?	Technical specification of goods offered by bidder	Remark (note for deviation and description of additional document attached with bidder offer)
<b>UNOPS minimum Requirement</b>						
<b>Lot 2- Laboratory Liquid Nitrogen Tank -200-300lit</b>				<b>This column must be completed fully by bidders</b>		
<b>Purpose</b>		Liquid nitrogen storage equipment is used to store biologic, genomic, and diagnostic samples in liquid nitrogen. Samples are transferred to cryogenic tubes and packaged in boxes. The boxes are placed in racks, which are then stored in cryogenic storage systems.	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>General description</b>						
	Brand name	Vendor to Specify	Vendor to Specify			
	Model No.	Vendor to Specify	Vendor to Specify			
	Manufacturer	Vendor to Specify	Vendor to Specify			
	Country of Origin	Vendor to Specify	Vendor to Specify			
<b>Technical Specification</b>						
	Temperature range:	≥ -196°C for liquid nitrogen	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			

	Capacity:	200-300 L	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	Construction.	Stainless Steel 304 or Heavy duty Aluminium	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	evaporation loss	Ultra-low evaporation loss	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	efficiency	High thermal efficiency	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	housing	Heavy duty lockable housing	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>Liquid Nitrogen Monitor</b>						
	Indicators	Level indicator ( FULL- EMPTY)	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
		Low level (indicates low liquid nitrogen level)	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
		Audio Alarm	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>Working Conditions</b>						
	Working environment temperature:	-10 °C to +40 °C	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	Working environment humidity:	≤80%.	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	Working altitude above sea level:	≥ 2,400 m	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			

Following items should be supplied with instrument						
	(ii) 6 canisters	Vendor to Confirm & Specify	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	(iii) Safety belt	Vendor to Confirm & Specify	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	2mL vial stackable rack (for full capacity) with secure lid made from Stainless Steel	Vendor to Confirm & Specify	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	(v) Cryogenic gloves (2 pairs)	Vendor to Confirm & Specify	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	(vi) safety goggles (2 Nos)	Vendor to Confirm & Specify	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	(vii) Hoses and all fitting	Vendor to Confirm & Specify	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	(viii) Appropriate voltage stabilizer	Vendor to Confirm & Specify	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	(viii) Phase separator	Vendor to Confirm & Specify	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	Consumables	Consumables as may be required for installation, commissioning, start up and trial runs shall be supplied by the supplier with the equipment without any extra charges.	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>Utility Requirements:</b>						

	Power supply:	220-400 V, 50 Hz, European plug, single phase main supply	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>Accessories and Spares</b>						
	All standard accessories shall be supplied	The accessories must be included in the offer and must be compatible with the brand and model of the equipment offered	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>Warranty:</b>						
	Warranty:	2-year comprehensive warranty for the system should be provided from the manufacturer	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>Documentation</b>						
	Data Sheet/ Catalogue	Bidders are required to provide a data sheet for the product model mentioned in their offer.	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	Manufacturer Authorization Form	If a Bidder does not manufacture or produce the goods it offers to supply, it shall submit either a manufacturer's authorization dually authorized by the manufacturer of the goods to supply the goods in the country of destination or an official dealership certificate (to evidence the vendor is an official dealer for the offered product)	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	Manuals:	One set of operation manual and service manual (English language) should be supplied with instruments.	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>Quality certificates</b>						
	Quality Certificate	Manufacturer ISO 9001 certificate issued by a body accredited by the IAF (The certifications presented must be current and in English.	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
		Product should be USFDA approved or comply with Conformity of Europeans via notified body or equivalent certificate from GHTF founding member countries ( Japan,	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			

		Australia or Canada)				
<b>Status</b>		The device shall be brand new (Refurbished device will not be accepted)	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>UNOPS the right to vary and Delivery time — Comparative Data Table</b>						
	<b>UNOPS Requirements</b>			Is the bid compliant ? Bidder to complete	Details If bidder cannot comply, indicate the reason(s) Bidder to complete	
	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 +/- 20%, without any change in the unit prices or other terms and conditions of the ITB	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm	Insert details	
	Delivery time-FCA- Lot 2	UNOPS prefers the goods to be delivered within within 6-8 weeks under FCA as per Incoterms 2020 after Contract signature	Vendor to Specify	Vendor to Specify	Insert details	
	Delivery time-DAP- Lot 2	UNOPS prefers the goods to be delivered within 8-10 weeks under DAP as per Incoterms 2020 after Contract signature	Vendor to Specify	Vendor to Specify	Insert details	
	Delivery place and Incoterms rules-Bidder confirms to deliver the items to:	Bidder's quoted FCA point – FCA (Incoterms 2020)	<input checked="" type="checkbox"/> Yes	Vendor to Specify	Insert details	
	AHRI, Addis Ababa , Ethiopia. UNOPS reserves the right to award FCA/DAP incoterm depending on the best interest of UNOPS	DAP (Incoterms 2020).- AHRI Compound, Addis Ababa , Ethiopia	<input checked="" type="checkbox"/> Yes	Vendor to Specify	Insert details	

### Lot 3-Laboratory Liquid Nitrogen Tank-1500-2000 lit

<u>Technical Specification</u> <u>Title: Re Bid- Supply, Installation , commissioning and training of</u> <u>Liquid Nitrogen Plant and Tank</u> <u>Ministry of Health / Armour Hanson Research Institute/AHRI</u> <u>Addis Ababa /Ethiopia</u>				Is your product compliant with UNOPS Minimum Requirement?	Technical specification of goods offered by bidder	Remark (note for deviation and description of additional document attached with bidder offer)
<b>UNOPS minimum Requirement</b>						
<b>Lot 3-</b>	<b>Laboratory Liquid Nitrogen Tank-1500-2000 lit</b>			<b>This column must be completed fully by bidders</b>		
<b>Purpose</b>	Liquid nitrogen storage equipment is used to store biologic, genomic, and diagnostic samples in liquid nitrogen. Samples are transferred to cryogenic tubes and packaged in boxes. The boxes are placed in racks, which are then stored in cryogenic storage systems.		<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>General description</b>						
	Brand name	Vendor to Specify	Vendor to Specify			
	Model No.	Vendor to Specify	Vendor to Specify			
	Manufacturer	Vendor to Specify	Vendor to Specify			
	Country of Origin	Vendor to Specify	Vendor to Specify			
<b>Technical Specification</b>						
	Temperature range:	≥ -196°C for liquid nitrogen	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to			

			Confirm & Specify			
	Capacity:	1500-2000 L	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	Construction.	Stainless Steel 304 or Heavy duty Aluminium	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	evaporation loss	Ultra-low evaporation loss	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	efficiency	High thermal efficiency	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	housing	Heavy duty lockable housing	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>Liquid Nitrogen Monitor</b>						
	Indicators	Level indicator ( FULL- EMPTY)	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
		Low level (indicates low liquid nitrogen level)	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
		Audio Alarm	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>Working Conditions</b>						
	Working environment temperature:	-10 °C to +40 °C	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	Working environment humidity:	≤ 80%.	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	Working	≥ 2,400 m	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to			

	altitude above sea level:		Confirm & Specify			
<b>Following items should be supplied with instrument</b>						
	(ii) 6 canisters	Vendor to specify	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	(iii) Safety belt	Vendor to specify	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	2mL vial stackable rack (for full capacity) with secure lid made from Stainless Steel	Vendor to specify	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	(v) Cryogenic gloves (2 pairs)	Vendor to specify	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	(vi) safety goggles (2 Nos)	Vendor to specify	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	(vii) Hoses and all fitting	Vendor to specify	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	(viii) Appropriate voltage stabilizer	Vendor to specify	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	(viii) Phase separator	Vendor to specify	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	Consumables	Consumables as may be required for installation, commissioning, start up and trial runs shall be supplied by the supplier with the equipment without any extra charges.	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>Utility Requirements:</b>						

	Power supply:	220-400 V, 50 Hz, European plug, single phase main supply	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>Accessories and Spares</b>						
	All standard accessories shall be supplied	The accessories must be included in the offer and must be compatible with the brand and model of the equipment offered	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>Warranty:</b>						
	Warranty:	2-year comprehensive warranty for the system should be provided from the manufacturer	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>Documentation</b>						
	Data Sheet/ Catalogue	Bidders are required to provide a data sheet for the product model mentioned in their offer.	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	Manufacturer Authorization Form	If a Bidder does not manufacture or produce the goods it offers to supply, it shall submit either a manufacturer's authorization dually authorized by the manufacturer of the goods to supply the goods in the country of destination or an official dealership certificate (to evidence the vendor is an official dealer for the offered product)	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	Manuals:	One set of operation manual and service manual (English language) should be supplied with instruments.	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>Quality certificates</b>						
	Quality Certificate	Manufacturer ISO 9001 certificate issued by a body accredited by the IAF (The certifications presented must be current and in English.	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
		Product should be USFDA approved or comply with Conformity of Europeans via notified body or equivalent certificate from GHTF founding member countries ( Japan,	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			

		Australia or Canada)				
<b>Status</b>		The device shall be brand new (Refurbished device will not be accepted)	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	<b>UNOPS the right to vary and Delivery time — Comparative Data Table</b>					
	<b>UNOPS Requirements</b>			Is the bid compliant? Bidder to complete	Details If bidder cannot comply, indicate the reason(s) Bidder to complete	
	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 +/- 20%, without any change in the unit prices or other terms and conditions of the ITB	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm	Insert details	
	Delivery time-FCA- Lot 3	UNOPS prefers the goods to be delivered within within 6-8 weeks under FCA as per Incoterms 2020 after Contract signature	Vendor to Specify	Vendor to Specify	Insert details	
	Delivery time-DAP- Lot 3	UNOPS prefers the goods to be delivered within 8-10 weeks under DAP as per Incoterms 2020 after Contract signature	Vendor to Specify	Vendor to Specify	Insert details	
	Delivery place and Incoterms rules-Bidder confirms to deliver the items to: AHRI, Addis Ababa , Ethiopia. UNOPS reserves the right to award FCA/DAP incoterm depending on the best interest of UNOPS	Bidder's quoted FCA point – FCA (Incoterms 2020)	<input checked="" type="checkbox"/> Yes	Vendor to Specify	Insert details	
		DAP (Incoterms 2020).- AHRI Compound, Addis Ababa , Ethiopia	<input checked="" type="checkbox"/> Yes	Vendor to Specify	Insert details	

## Lot 4-Special Transport Liquid Nitrogen Tank

<u>Technical Specification</u> <u>Title: Re Bid- Supply, Installation , commissioning and training of Liquid Nitrogen Plant and Tank</u> <u>Ministry of Health / Armour Hanson Research Institute/AHRI</u> <u>Addis Ababa /Ethiopia</u>				Is your product compliant with UNOPS Minimum Requirement?	Technical specification of goods offered by bidder	Remark (note for deviation and description of additional document attached with bidder offer)
<b>UNOPS minimum Requirement</b>						
<b>Lot 4</b>	<b>Special Transport Liquid Nitrogen Tank</b>			<b>This column must be completed fully by bidders</b>		
	Description	Cryostorage is designed for safe, long-term storage at the temperature of liquid nitrogen of various biological samples, including stem cells, sperm, blood elements, etc.:	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>General Requirement</b>						
	Model No.	Vendor to Specify	Vendor to specify			
	Manufacturer	Vendor to Specify	Vendor to specify			
	Country of Origin	Vendor to Specify	Vendor to specify			
<b>Technical Specification</b>						
<b>Purpose</b>						
	Purpose	Preservation of biomaterials, both in the phase of liquid nitrogen and in its vapors	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
		The Transport Liquid Nitrogen Tank consists of economical, lightweight aluminum alloy or stainless steel liquid nitrogen tanks designed for the static storage and transportation	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			

		of biological samples, featuring multi-layer insulation for enhanced safety and efficiency, along with a range of optional accessories.				
	Capacity	not less than 35 L	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	Neck Opening	shall be within range (mm) 50-125	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	Static Evaporation Rate (L/day)	not more than 0.3	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	Static Holding Time (day) within range	110-125	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	Canister Diameter (mm)	60-65	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	Canister Height (mm)	120/276	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	Number of Canisters (ea) :	6	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	Straws	0.5 mL : 2000 straws or more.	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
		0.25 mL : 4000 straws or more	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
		0.5 mL :3000 straws or more	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
		0.25 mL: 8000 straws or more	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm &			

			Specify			
	Lid	Lockable Lid	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	Protection	PU Bag (Protective jacket)	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	cap	Smart Cap	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	Base	Roller Base	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>Accessories</b>						
	All standard accessories shall be supplied	The accessories must be included in the offer and must be compatible with the brand and model of the equipment offered	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>Warranty:</b>						
	Warranty:	2-year comprehensive manufacturer warranty	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>Documentation</b>						
	Data Sheet/ Catalogue	Bidders are required to provide a data sheet for the product model mentioned in their offer.	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	Manufacturer Authorization Form	If a Bidder does not manufacture or produce the goods it offers to supply, it shall submit either a manufacturer's authorization dually authorized by the manufacturer of the goods to supply the goods in the country of destination or an official dealership certificate (to evidence the vendor is an official dealer for the offered product)	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
	Manuals:	One set of operation manual and	<input type="checkbox"/> Yes <input type="checkbox"/> No			

		service manual (English language) should be supplied with instruments.	Vendor to Confirm & Specify			
<b>Quality certificates</b>						
	Quality Certificate	Manufacturer ISO 9001 certificate issued by a body accredited by the IAF (The certifications presented must be current and in English.	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
		Product should be USFDA approved or comply with Conformity of Europeans via notified body or equivalent certificate from GHTF founding member countries ( Japan, Australia or Canada)	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>Status</b>		The device shall be brand new (Refurbished device will not be accepted)	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm & Specify			
<b>UNOPS the right to vary and Delivery time — Comparative Data Table</b>						
	<b>UNOPS Requirements</b>			Is the bid compliant? Bidder to complete	Details If bidder cannot comply, indicate the reason(s) Bidder to complete	
	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 +/- 20%, without any change in the unit prices or other terms and conditions of the ITB	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm	<input type="checkbox"/> Yes <input type="checkbox"/> No Vendor to Confirm	Insert details	
	Delivery time- FCA- Lot 4	UNOPS prefers the goods to be delivered within within 6-8 weeks under FCA as per Incoterms 2020 after Contract signature	Vendor to Specify	Vendor to Specify	Insert details	
	Delivery time- DAP- Lot 4	UNOPS prefers the goods to be delivered within 8-10 weeks under	Vendor to Specify	Vendor to	Insert details	

		DAP as per Incoterms 2020 after Contract signature		Specify	
	Delivery place and Incoterms rules-Bidder confirms to deliver the items to:	Bidder's quoted FCA point – FCA (Incoterms 2020)	<input checked="" type="checkbox"/> Yes	Vendor to Specify	Insert details
	AHRI, Addis Ababa , Ethiopia. UNOPS reserves the right to award FCA/DAP incoterm depending on the best interest of UNOPS	DAP (Incoterms 2020).- AHRI Compound, Addis Ababa , Ethiopia	<input checked="" type="checkbox"/> Yes	Vendor to Specify	Insert details