Plasma Freezer -40°C

S.N.	Purchaser's Specifications	Bidder's	Compliance	e Sheet
0.14	Plasma Freezer -40°C	Yes/No	Page No. in Catalogue	Remarks
	Manufacturer:			
	Brand:			
	Type / Model:			
	Country of Origin:			
1	Description of Function			
1.1	Plasma Freezers are required to preserve blood and blood products, vaccine, plasma etc. at specified temperatures.			
2	Operational Requirements			
2.1	The system should be able to preserve plasma in very low temperatures. at -40°C			
3	Technical Specifications			
3.1	Internal stainless steel (min. 22g), External: solid outer corrosion resistant (at least 1 mm thickness), CFC-free Insulation			
3.2	Upright Type, Mounted on Lockable Castor Wheels			
3.3	Shelves and trays are 3/4 adjustable and made of non-corrosive stainless steel. The door should project to the side when opened.			
3.4	High density polyurethane foam insulation.			
3.5	Should have the capacity to store plasma bags of 180 or more bags.			
3.6	Operating temperature reachable lowest up to -40 °C with setting accuracy of 0.1°C. Must have adjustable freezer compartment range :-20 °C to -40 °c			
3.7	Should have a fan air cooling system.			
3.8	Should have an automatic defrost facility within a safe temperature range.			
3.9	Should have a heavy-duty, hermetically sealed compressor, an air-cooled refrigeration system that maintains an inner temperature below -40 °C, and refrigerant that is CFC-free or green gas. Noise level less than 60 dBA and low vibration compressor.			
3.10	An ambient temperature of +10 °C to +40 °C			
3.11	It should have a temperature monitoring system on a digital temperature (LED) display with 0.1 °C gradation.			
3.12	It should have a temperature-recording device. Each chart			



	will record a 7-day cycle.			
3.13	There should be an independent, continuous source of			
	power for alarms.		1	
3.14	Should have alarm facility for Audio Visual for Power			
	On/Failure, On/Off Display of Compressors, Display of		1	
1	Battery Status, High or Low Temperature, and Door Open			
	or Close system.		1	
	of Close system.			
4	Accessories, spares and consumables			
4.1	All standard accessories, consumables and parts required			
	to operate the equipment, including all standard tools and			1
1	cleaning and lubrication materials, to be included in the			1
1	offer. Bidders must specify the quantity of every item			
	included in their offer (including items not specified			
	above).			
5	Operating Environment			-
5.1	The product offered shall be designed to be stored and to			
	operate normally under the conditions of the purchaser's			
	country. The conditions include Power Supply, Climate,			
5.2	Temperature, Humidity, etc. Power Supply: AC 230V ± 10%, 50/60 Hz			
3.2	Power Supply: AC 230 V ± 10%, 30/00 Hz			
6	Standards and Safety Requirements			
6.1	Should submit ISO13485 and ISO 9001 for Medical			
	Devices and CE (93/42 EEC Directives) or USFDA			
	Approved certificate.			
6.2	Electrical safety conforms to standards for electrical			
	safety IEC 60601-1 General requirement for Electrical			.
-	safety of Medical Equipment.			+
7	User Training Must provide user training (including how to use and		-	+
7.1	maintain the equipment).	1		
8	Warranty		-	
8.1	Comprehensive warranty for 1 year after acceptance.			
9	Maintenance Service During Warranty Period			
_				
9.1	During the warranty period supplier must ensure			
	preventive maintenance and corrective/break down			
	maintenance whenever required.			
10	Installation and Commissioning			
10.1	The bidder must arrange for the equipment to be installed			
	and commissioned by certified or qualified personnel; any			
	prerequisites for installation to be communicated to the			
	purchaser in advance, in detail.	-		
11	Documentation English			
11.1	a 111 diam and increation from Igciory		 	-
11.2	Certificate of campration and inspection from factory			



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Sphygmomanometer (BP Apparatus), Digital

S.N.	Purcha	ser's Specifications			
5.11.		meter (BP Apparatus),	Yes/No	Page No. in	Remarks
	Digital	(21 търратата),		Catalogue	
	Manufacturer				
	Brand				
	Type / Model				
	Country of		1		
	Origin				
1	Description of	L Function			
1.1		or sphygmomanometer is a			
		neasure arterial blood			
		osed of an inflatable cuff to			
		ow and to measure the			
	pressure.				
2	Operational R	equirements			
2.1		nflating digital BP apparatus			
		ediatric patient.			
3	System Config	uration			
3.1	Digital B.P. Ap	paratus with complete unit			
	and with compl	ete accessories.			
4	Technical Spec				
4.1		ne touch operation.			
4.2		e the systolic, diastolic and			
1	-	ame shall be displayed on			
	screen.				
4.3		CD digital display.			
4.4		nethod: Oscillometric type.			
4.5	Measurement				
		re 0 – 290 mm Hg.			
		40 – 180 beats /min.	-		
4.6	Accuracy:	12 an 2 mm Ha			
		re: +3 or -3 mm Hg.			
		ate: + 5 or – 5% of reading.			
4.7	Should inflate a	nutomatic by electric pump.	-		
4.8	Should automa	tic by pressure release valve.	-		
4.9		ion: Capacitive pressure			
	sensor.	AA alkaline batteries with	-		
4.10	Shall work on	AA aikaiiiic vallei les willi			
	minimum life i	or 500 readings.	+ •		
4.11	It shall have me	emory to store last three			
1.1-	measurements.	nto shut off function.			
4.12	Should have at	ith suitable sizes of reusable			
4.13	Should come w	f adult and paediatric.		1	
<u> </u>	arm Br cuits of	cility of USB nort.			
4.14	Should have la	cility of USB port. pares and consumables			
5	Accessories, sp	ares and consumations			
5.1	Accessories:	f AA alkaline batteries.			
	• 1 x carr	ying case.			

S.N.	Purchaser's Specifications		
5.2	All standard accessories, consumables and		
	parts required to operate the equipment,		1
	including all standard tools and cleaning and		
	lubrication materials, to be included in the		1
	offer. Bidders must specify the quantity of		
	every item included in their offer (including		
	items not specified above).		
6	Operating Environment		
6.1	The product offered shall be designed to be		
	stored and to operate normally under the		
	conditions of the purchaser's country. The		
	conditions include Climate, Temperature,		
	Humidity, etc.		
6.2	Shall operate on 4 nos. AA alkaline batteries.		
7	Standards and Safety Requirements		
7.1	Must submit ISO13485:2003/AC:2007 for	4	
	Medical Devices AND		
7.2	CE (93/42 EEC Directives) or USFDA		
	approved product certificate.		
8	User Training		
8.1	Must provide user training (including how to		
	use and maintain the equipment).		
9	Warranty		
9.1	Comprehensive warranty for 1 year from		
	acceptance.		
10	Maintenance Service During Warranty		
	Period		
10.1	During the warranty period supplier must		
	ensure corrective/breakdown maintenance		
	whenever required.		
11	Installation and Commissioning		•
11.1	Must supply preassembled unit, ready to use.		
12	Documentation		
12.1	User (Operating) manual in English.		
12.2	Service (Technical / Maintenance) manual in		
	English		
12.3	List of important spare parts and accessories		
	with their part number and costing.		
12.4	Certificate of calibration and inspection from		
	factory.		

54.

Binocular Microscope Compound

S.N.	Purchaser's Specifications	Bidder's Cor	npliance Sheet	
	Binocular Microscope Compound	Yes/No	Page No. in Catalogue	Remarks
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	Description of Function			
1.1	Compound microscope consists of two or more than two			
	magnifying lenses. One can view individual cells, even			
	living ones. It has high magnification			
2	Operational Requirements			
2.1	System complete with illumination system is required.			
3	System Configuration			
3.1	Binocular Microscope Compound with complete			
	accessories			
4	Technical Specifications			
4.1	Body :Binocular, sturdy, stable base body with focus			
	adjustment controls			-
4.2	Eye piece: Paired, high quality, (the image of the object			
	as seen through the binocular eyepiece must be well			
	defined centrally in at least 2/3 field of view),			
	achromatic, wide field, 10x and 15x without inbuilt			
	pointer. The eyepiece must be aplanatic and have a minimum field number of 18. Dioptre adjustment must be			
	present on one/ both eye pieces or on the eye piece tube			
4.2	Objective: Four 4x, 10x, 40x, 100x.			
4.4	10x and 40x objectives must have numerical apertures of			
4.4	0.25 and 0.65 respectively and must be of spring loaded			
	type or otherwise.			
4.5	100 x must have numerical aperture of 1.25 and must be			
4.5	of oil immersion and spring loaded type. Suitable			
	prominent marking must be provided on 100x for easy			
1	identification.			
4.6	Unbreakable containers to be provided for storing the			
1 4.0	objectives. All objectives must be wide field, achromatic			
	and par focal			
4.7	Making for the Objectives : Each objective must be			
1	engraved with the following information:-			
	Name of the manufacturer			
	Magnification and numerical aperture, for example,			
	10×/0.25			
	100% chiective must be engraved with the word 'Oil'			
10	131 issay Payolying nose niece to accommodate four			
4.8	the state of the s			
	ribbed grip for easy rotation mounted on a precision ball			
	Honer Rub for easy to many			

54.

S.N		Bidder's Compliance Sheet
	bearing mechanism for smooth and accurate alignment.	The state of the s
	Extra ports if any must be fitted with dust proof	
	metallic/ebonite caps.	
4.9	Stage Uniformly horizontal, mechanical stage having	
	dimensions of length 140 mm (+/- 20mm) with fine	
	vermier graduations (minimum reading accuracy of 0.1	
	mm). the stage must be provided with spring loaded slide	
1	holder for exact positioning of specimen/ slide. It must be	
1	designed with convenient sub-stage vertical coaxial	
	adjustment for slide manipulation. The stage must have	
	ball-bearing arrangement to allow smooth travel in	
	transverse directions i.e. 80 mm (+/-5mm) and front to	
	back direction, 50mm (+/-5mm)	
4.1		
	aperture (N.A.) 1.25 focusable with rack and pinion	
	arrangement incorporating a spherical lens and an iris-	
	diaphragm. The condenser must have a filter holder and	
	removable/ swing in/ out blue filter (suitable for bright	
	field Microscopy).	
4.1	1 Sub-stage illuminator: 1.The system must have a build-in	
	variable light source (Illuminator). This light source must	
	have a Led lamp. The circuitry for the light source must	
	include a constant voltage supply. The system must be	
	provided with a step down transformer and an on-off	
	switch and intensity control. The lamp must be provided	
	with a lamp socket which has the facility for easy	
	replacement of the bulb.	
4.1	. •	
	Kohler illumination.	
4.1		
	and 45 degrees, rotatable through an angle of 360	
	degrees, having inter-pupillary distance range of 54-74	
	mm or wider, covering the above mentioned range	
4.1		
	capable of smooth fine focusing movement over the full	
	range of coarse travel. The fine focusing movement must	
	have sensitivity of two microns or less (finer) over the entire coarse focusing stop safety arrangement must be	
_	provided.	
6	Operating Environment The product offered shall be designed to be stored and to	
6.1	operate normally under the conditions of the purchaser's	
	country. The conditions include Power Supply, Climate,	
-	Temperature, Humidity, etc.	
6.2		
	with appropriate plug to meet purchaser's country	
	requirements. The power cable must be minimum 3	
-	metres long.	
6.3	Voltage corrector/stabilizer of appropriate ratings	



S.N.		Bidder's Compliance Sheet
	meeting international standards.(Input 160-260 V and output 220-240 V and 50 Hz)	
7	Standards and Safety Requirements	
7.1	Must submit ISO13485:2003/AC:2007 for Medical	
	Devices AND	
7.2	CE or USFDA approved product certificate.	
8	User Training	
8.1	Must provide user training (including how to use and maintain the equipment).	
9	Warranty	
9.1	Comprehensive warranty for 2 years after acceptance.	
10	Maintenance Service during Warranty Period	
10.1		
	corrective/breakdown maintenance whenever required.	
11	Installation and Commissioning	
11.1		
	and commissioned by certified or qualified personnel;	
	any prerequisites for installation to be communicated to	
	the purchaser in advance, in detail.	
12	Documentation	
12.1		
12.2		
12.3		
	part numbers and costing.	
12.4	Certificate of calibration and inspection from factory.	

Technical specification of Autoclave

S.N.	Purchaser's Specifications	Bidder's	s Complianc	e Sheet
<u> Sv. v</u>	Autoclave	Yes/No	Page No. in Catalogue	Remarks
	Manufacturer:		Catalogue	
	Brand:			
	Type / Model:			
	Country of Origin:			
1	Description of Function			
1.1	Autoclave shall be able to work under high pressure		-	
	and high temperature in order to sterilize wrapped			
	instruments, unwrapped instruments, linen,			
	glassware, plastic articles etc.			
2	Operational Requirements			
2.1	Vertical electrically heated autoclave with complete			
	accessories.			
3	Technical Specifications			
3.1	Technical Specifications Operating temperature 121°C – 134°C			
3.2	Operating pressure: 15-30 PSI			
3.3	Time range 0-60 min			
3.4	Capacity-Apporx 30 liters or more			
3.5	Must have pressure gauge ,safety valve and steam release			
	cock.			
3.6	Made of Stainless steel on inner and outer layer.			
4	Accessories, spares and consumables			
4.1	All standard accessories, consumables and parts required			
	to operate the equipment, including all standard tools and			
	cleaning and lubrication materials, to be included in the			
	offer. Bidders must specify the quantity of every item included in their offer (including items not specified			
	above).			
5	Operating Environment			
5.1	The product offered shall be designed to be stored and to			
J.1	operate normally under the conditions of the purchaser's			
	country. The conditions include Power Supply, Climate,			
	Temperature Humidity, etc.			
5.2	Power Requirements: Input voltage 220-240 V/ 50Hz.			
6	Standards and Safety Requirements			
6.1	Should submit ISO13485 and ISO 9001 for Medical			
	Devices and CE (93/42 EEC Directives) or USFDA			

	Approved certificate.	T		_
6.2	Electrical safety conforms to standards for electrical			_
	safety IEC 60601-1 General requirement for Electrical			
	safety of Medical Equipment.		1	
7	User Training			
7.1	Must provide user training (including how to use and			_
	maintain the equipment).	1		
8	Warranty			_
8.1	Comprehensive warranty for 1 year after acceptance.			
9	Maintenance Service During Warranty Period			٦
9.1	During the warranty period supplier must ensure			\exists
	preventive maintenance and corrective/break down			
	maintenance whenever required.			
10	Installation and Commissioning			٦
10.1	The bidder must arrange for the equipment to be installed			٦
	and commissioned by certified or qualified personnel; any			
	prerequisites for installation to be communicated to the			
	purchaser in advance, in detail.			
11	Documentation			7
11.1	User (Operating) manual in English.			7
11.2	Certificate of calibration and inspection from factory			

54.

Hot Air Oven (Small)

$\mathbf{C} \mathbf{N}$	Purchaser's Specifications	Bidder's Compliance Sheet		
S.N.	Hot Air Oven	Yes/No	Page No. in Catalogue	Remarks
			Catalogue	
	Manufacturer			
	Brand		_	
	Type/Model			
	Country of Origin			
1	Description of Function			
1.1	Hot Air Oven is required for heating a sample under controlled conditions.			
2	Operational Requirements			
2.1	Microprocessor based digital display system.		_	
3	System Configuration			
3.1	Hot Air Oven (Small) with complete accessories			
4	Technical Specifications		1	
4.1	Must be made of double walled chamber, Stainless Steel SS 304 grade.			
4.2	Must provide with three heating elements on three sides of the equipment for uniform temperature on all shelves.			
4.3	Door gaskets shall be made of Silicon.			
4.4	Shall have variable microprocessor based digital temperature controller with digital display.			
4.5	Must have a minimum chamber size of 300mm (L) x 300mm (B) x 300mm (H) with 2 stainless steel perforated trays.			
4.6	Shall have provision of air ventilations.			
4.7	Temperature variation +/- 1 °C			
4.8	Temperature Range: Ambient to 250 °C.			_
5	Accessories, spares and consumables			
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).			
6	Operating Environment			
6.1	The system offered must be designed to store and be operated normally under the condition of the purchaser's Country. The conditions include Power supply. Climate, temperature and relative humidity.			
6.2	Power supply: 220-240V/ 50 Hz AC Single phase fitted with appropriate plugs. The power cable must be at least 3 metres long.			
7	Canada and Safety Requirements			
7.1	Must submit ISO13485:2003/AC:2007 for Medical			
7.2	CE (93/42 EEC Directives) or USFDA approved product certificate.			

S.N.	Purchaser's Specifications	Bidder's Compliance Sheet
7.3	Must be compliant with IEC 61010-1:(or any	
	international equivalent e.g. EN/UL 61010) covering	
	safety requirements for electrical equipment for	
	measurement control and laboratory use.	
8	User Training	
8.1	Must provide user training (including how to use and	
	maintain the equipment).	
9	Warranty	
9.1	Comprehensive warranty for 1 year after acceptance.	
10	Maintenance Service During Warranty Period	
10.1	During the warranty period supplier must ensure	
	corrective/breakdown maintenance whenever required.	
11	Installation and Commissioning	
11.1	The bidder must arrange for the equipment to be	
	installed and commissioned by certified or qualified	
1	personnel; any prerequisites for installation to be	
	communicated to the purchaser in advance, in detail.	
12	Documentation	
12.1	User (Operating) manual in English.	
12.2	Service (Technical / Maintenance) manual in English.	
12.3	List of important spare parts and accessories with their	
	part numbers and costing.	
12.4	Certificate of calibration and inspection from factory.	

34.

Incubator

S.N.	Purchaser's Specifications	Bidder's Compliance Sheet			
	Incubator	Yes/No	Page No. in Catalogue	Remarks	
	Manufacturer				
	Brand				
	Type / Model				
	Country of Origin				
1	Description of Function				
1.1	Incubator is a closed chamber which heats/chill a				
•••	sample at a preset temperature for long term for				
	applications like culture growth etc.				
2	Operational Requirements				
2.1	Microprocessor controlled system with digital display	 	- 		
3		-			
3.1	System Configuration				
	Incubator with digital display and alarms facility.				
4	Technical Specifications				
4.1	Capacity: approx. 30L				
4.2	Interior chamber: Stainless steel for easy cleaning and decontamination.				
4.3	Should have adjustable thermostat for temperature setting.				
4.4	Temperature adjustable from 20 °C – 70 °C with				
	temperature stability 37 °C and accuracy in the region				
	$30^{\circ}\text{C} - 40^{\circ}\text{C} \ (+/-0.5^{\circ}\text{C}).$				
4.5	Shall have two ventilators.				
4.6	Glass window in the front door for the observation.				
4.7	With minimum two adjustable shelves.				
4.8	Audiovisual Alarm facility				
4.9	Membrane Keypad with LCD/LED to set and display				
	operating parameters.				
4.10	Insulated door fitted with heavy hinges handles				
	locking, mechanical door lock.				
5	Accessories, spares and consumables				
5.1	All standard accessories, consumables and parts				
	required to operate the equipment, including all				
	standard tools and cleaning and lubrication materials,				
	to be included in the offer. Bidders must specify the				
	quantity of every item included in their offer				
	(including items not specified above).				
6	Operating Environment				
6.1	The system offered shall be designed to be stored and				
	to operate normally under the conditions of the	1			
	purchaser's country. The conditions include Power				
	Supply, Climate, Temperature, Humidity, etc.				
6.2	Power supply: 220 – 240 VAC, 50Hz fitted with				
	appropriate plug. The power cable must be at least 3				
	metre in length.	1			
7	Standards and Safety Requirements				
7.1	Must submit ISO13485:2003/AC:2007 for Medical				



S.N.	Purchaser's Specifications	Bidder's Compliance
	Devices AND	Bidder's Compliance Sheet
7.2	CE or USFDA approved product certificate.	
7.3	Shall meet IEC 61010-1 safety requirements for	
	electrical equipment for laboratory use.	
8	User Training	
8.1	Must provide user training (including how to use and maintain the equipment).	
9	Warranty	
9.1	Comprehensive warranty for 2 years after acceptance.	
10	Maintenance Service During Warranty Period	
10.1	During the warranty period supplier must ensure	
	corrective/breakdown maintenance whenever	
	required.	
11	Installation and Commissioning	
11.1	The bidder must arrange for the equipment to be	
	installed and commissioned by certified or qualified	
	personnel; any prerequisites for installation to be	
	communicated to the purchaser in advance, in detail.	
12	Documentation Documentation	
12.1	User (Operating) manual in English	
12.2	Service (Technical / Maintenance) manual in English	
12.3	List of important spare parts and accessories with	
	their part numbers and costing.	
12.4	Certificate of calibration and inspection from factory.	

Specification of mobile camp portable blood donor chair

S.N.	Purchaser's Specification	Bido	ler's C		
3.141	Mobile camp portable blood donor chair.	Yes	No	Page No. in Catalogue	remarks
	Manufacturer				
	Brand				
	Type/Model				
	Country of Origin				
1	Operational Requirements				
1.1	Mobile camp portable blood donor chair should be strong, easy to folding and extension and comfortable for blood donor during blood collection in the donation camps.				
2	System Configuration				
2.1	Easy to folding and extension and comfortable for blood donor during blood collection in the donation camps. After folding it should be take less space for storing and carrying inside the vehicle.				
3	Technical Specification	1			
3.1	Zero gravity chairs with 112 X 64 X 42 cm with 1.0 mm steel tube, and tube surface with high quality powder coating & tube surface with phosphorization to avoid rusting.				
3.2	The zero gravity chairs are made of durable & brightly colored polyester fabric with water proof.				
3.3	Headrest padded cotton slipcover to protect your chair.		,		
3.4	Weight bearing capacity not less than 150 kg.				
.5	It can be three folded save space and easy to carry.				
.6	It should be light weight 6-8 kg.				
	Accessories, spares and consumables				
.1	Opens and folds in seconds & no assembly required.		 		



	Bidder should be provide two washable covering bed sheet for each blood donor chair.		
5	Operating Environment:		
5.1	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country.		
6	Standards and Safety Requirements		
6.1	Should submit standard certificate.		
7	Warranty		
7.1	Comprehensive warranty for 1 year after acceptance.		

Bidder must completely fill the Technical Specification Form (TSF). Only Yes/no/all complies should not be written. Page number in the catalogue of all the required parameters must be clearly mentioned and highlighted and also must submit original technical brochure. Failure in doing so may lead to rejection of bid from technical committee.

34.

Technical Specification of Centrifuge

S.N.	Purchaser's Specifications	Bidde	Bidder's Compliance Sheet		
	Centrifuge	Yes/No	Page no. in catalogue	Remarks	
	Manufacturer				
	Brand				
	Type/Model				
	Country of Origin				
1	Description of Function				
1.1	Centrifuges are required in the laboratory to separate various components of Blood for analysis				
2	Operational Requirements				
2.1	Microprocessor based Controller system				
3	System Configuration				
3.1	Centrifuge with 16 tube capacity of 5-15ml				
4	Technical Specifications				
4.1	Should have Rotor capacity 16 tubes.				
4.2	Swing out rotor				
4.3	Maximum speed should be atleast 5000 rpm/ RCF 3650g				
4.4	Should have Maintenance free brushless motor				
4.5	Should have LCD Display of set and working parameters				
4.6	Should have microprocessor controller with digital display				
4.7	Should have safety lid interlock to prevent lids opening during centrifugation/electronic safety lid lock				
4.8	Should have Imbalance detection & automatic switch off function.				
4.9	Should have 1-99 minutes Digital timer				
	Body must be made of strong fabricated & corrosion resistant steel				
4.11	Noise less than 60 dB				
5	Accessories, spares and consumables				
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).				
6	Operating Environment				
6.1	The system offered must be designed to store and be operated normally under the condition of the purchaser's Country. The conditions include Power supply, Climate,				



Needle destroyer

S.N.	Purchaser's Specifications	Bidder's	Compliance	Sheet
	Needle destroyer	Yes/No	Page No. in Catalogue	Remarks
	Manufacturer:			
	Brand:			
	Type / Model:			
	Country of Origin:			
1	Description of Function		-	
1.1	Needle Destroyer Machine for Hospital & Laboratory		_	
	uses. Needle destroyers are used to destroy the needles instantly to prevent reuse and manage waste effectively.			
2	Operational Requirements			
2.1	Needle Destroyer with complete accessories. The needle			-
	should be completely incinerated without visible sparking and arcing			
3	Technical Specifications			
3.1	Should have SS sharp blade cutter to cut the nozzle of the			
	syringe			
3.2	Must be able to destroy of all types of needle.			
3.3	Should have provision of removable and reusable			
	collection box for syringe nozzle and needle debris.			
3.4	Should have Provision of on/off switch with pilot lamp			
3.5	Needle destruction rate shall be of 2 seconds per needle.			
3.6	Easy Operation For Destroying Needle & Syringe.			
4	Accessories, spares and consumables			
4.1	All standard accessories, consumables and parts required			
	to operate the equipment, including all standard tools and			
	cleaning and lubrication materials, to be included in the			
	offer. Bidders must specify the quantity of every item included in their offer (including items not specified			
	above).			
5		-		
5.1	Operating Environment The product offered shall be designed to be stored and to			
J. I	operate normally under the conditions of the purchaser's			



	country. The conditions include Power Supply, Climate,	
	Temperature, Humidity, etc.	
6	Standards and Safety Requirements	
6.1	Should submit ISO13485 and ISO 9001 for Medical	
	Devices and CE (93/42 EEC Directives) or USFDA	
	Approved certificate.	
6.2	Electrical safety conforms to standards for electrical	
	safety IEC 60601-1 General requirement for Electrical	
	safety of Medical Equipment.	
7	User Training	
7.1	Must provide user training (including how to use and	
	maintain the equipment).	
8	Warranty	
8.1	Comprehensive warranty for 1 year after acceptance.	
9	Maintenance Service During Warranty Period	
9.1	During the warranty period supplier must ensure	
	preventive maintenance and corrective/break down	
	maintenance whenever required.	
10	Installation and Commissioning	
10.1	The bidder must arrange for the equipment to be installed	
	and commissioned by certified or qualified personnel; any	
	prerequisites for installation to be communicated to the	
	purchaser in advance, in detail.	
11	Documentation	
11.1		
11.2	Certificate of calibration and inspection from factory	

Cold Chain Box

	rchaser's Specifications	Bidder's	Compliance	Sheet
	d Chain Box	Yes/No	Page No. in Catalogue	Remarks
_	nufacturer:			
Bra				
	pe / Model:			
	untry of Origin:			
1 Des	scription of Function			
1.1 Co	old box is used to carry whole blood from individual			
dor	nors to blood bank or from blood bank to point of use.			
2 Op	perational Requirements			
2.1 Co	ld box made with such material that it is sturdy and			
ligl	ht in weight to carry.			
3 Te	chnical Specifications			
3.1 Ins	sulation material CFC-free Polyurethane.		-	
3.2 Ins	sulation thickness 100-120 mm.			
	ch cold box shall contain adequate icepacks.			
3.4 Ex	sternal dimensions 70 x 55 x 50 in cm.			
	ternal dimensions 50 x 34 x 27 in cm.	 		
	d type –Hinged			
	inimum 25-30 bags can be stored			
3.8 Ex	kternal surface and internal lining material LLDPE	-		
(L	inear Low Density Polyethylene).			
	old life without opening 120-185 hrs. at +45 °F or better	-		
	ccessories, spares and consumables	-		
4.1 Ex	ecessories, spares and consumables extra icepacks should be provided.	-		
	perating Environment	-		
5.1 M	aximum Ice Melting Rate: More than 10 hrs. per 1 kg	-	-	
ic	e melted during 45 °F cold life test.			
	tandards and Safety Requirements			-
	hould meet WHO standard.			
7 U	ser Training			
7.1 M	fust provide user training (including how to use and			
m	aintain the equipment).			
	Varranty			
	omprehensive warranty for 1 year after acceptance.			
	Naintenance Service During Warranty Period			
	During the warranty period supplier must ensure			
	naintenance.	-		
	nstallation and Commissioning	-		
	Must supply preassembled unit, ready to use.			
	Occumentation			
	Manufacturer's certification of compliance of test rocedures as per WHO Standards Test Procedures.			
		-	-	
11.2 C	Certificate of inspection from factory.			

5 A.

54.

Blood Collection Monitor

S.N.	Purchaser's Specifications	Bidder's	Compliance	Sheet
	Blood Collection Monitor	Yes/No	Page No. in Catalogue	Remarks
	Manufacturer:			
	Brand:			
	Type / Model:			
	Country of Origin:			
1	Description of Function			
1.1	This system is used to collect the desired amount of blood			
	from the donor and automatically mixes the blood			
	uniformly with the anticoagulant blood bag.			
2	Operational Requirements			
2.1	The system should measure the blood collected, and			
	display the real time volume of blood, blood flow, and		11	
	alarms wherever required. Mix the anicoagulant and blood		1	
	continuously.			
3	Technical Specifications			
3.1	Should have an LED indication on the commencement of			
	collection.			
3.2	Should have an LED indication and an audible alarm at the			
	collection time.			
3.3	Should have an indication of the time taken for collection.			
3.4 .	Should have an indication of blood flow with an audio			
	alarm when blood flow is higher or lower than desired.			
3.5	It should have a Continuous display of collection volume			
5.5	flow and time during collection.			
	-			
3.6	It should have a facility for automatic clamping at the			
	termination of preset volume collection.			
27	It should have the facility to continuously mix blood with			
3.7	anticoagulant at 10–12 rpm.			
				7
3.8	It should have a volume-setting facility for pre-selected			
	volumes to be collected. Measure volume with best		1	
	accuracy <1%.			
-				
3.9	Should have automatic storage and recall of a set volume			
	facility.			
2.10	It should have a facility for tarring bag volume before			
3.10	collection			
	COllection			



3.11	Should have a tarring range 0-600g			
3.12	Must be light weight; not more than 5 kg approx			
3.13	Must operate on mains as well as inbuilt rechargeable			
	battery. It should operate atleast for 5 hours with battery.			
4	Accessories, spares and consumables			
4.1	All standard accessories, consumables and parts required			
	to operate the equipment, including all standard tools and			
	cleaning and lubrication materials, to be included in the			
	offer. Bidders must specify the quantity of every item		1	
	included in their offer (including items not specified			
	above).)	
5	Operating Environment			
5.1	The product offered shall be designed to be stored and to			
	operate normally under the conditions of the purchaser's			
	country. The conditions include Power Supply, Climate,			
	Temperature, Humidity, etc.			
6	Standards and Safety Requirements			
6.1	Should submit ISO13485 and ISO 9001 for Medical			
	Devices and CE (93/42 EEC Directives) or USFDA			
	Approved certificate.			
6.2	Electrical safety conforms to standards for electrical			
	safety IEC 60601-1 General requirement for Electrical			
1	safety of Medical Equipment.			
7	User Training			
7.1	Must provide user training (including how to use and			
	maintain the equipment).			
8	Warranty			
8.1	Comprehensive warranty for 1 year after acceptance.			
9	Maintenance Service During Warranty Period			
9.1	During the warranty period supplier must ensure			
	preventive maintenance and corrective/break down			
	maintenance whenever required.			
10	Installation and Commissioning			
10.1	The bidder must arrange for the equipment to be installed			
	and commissioned by certified or qualified personnel; any			
	prerequisites for installation to be communicated to the			
	purchaser in advance, in detail.			
11	Documentation			
11.1	User (Operating) manual in English.			
11.2	Certificate of calibration and inspection from factory	0.1.456	/NO II	

54

Blood	Bag Tube Sealer	Ridder's	Compliance	Sheet
N	Purchaser's Specifications	Yes/No	Page No.	Remarks
	Blood Bag Tube Sealer	100/110	in	
			Catalogue	
	Manufacturer :			
	Brand:			
	Type / Model:			
	Country of Origin:			
1	Description of Function			
1.1	Blood bag tube sealer is a compact equipment to seal the			
1.1	blood bag pilot tube by radio frequency sealing system.			
2	Operational Requirements			
2.1	Blood bag tube sealer should be able to seal blood bag			
	pilot tubing.			
		+		
3	Technical Specifications The system should be light weight so that it can be moved			
3.1	The system should be right weight so that it can be moved			
	easily and able to seal the blood bag tubing quickly and			
	effectively.			
3.2	The system should gently seal the tubing with no			
	hemolysis and leakage using radio frequency.			
				-
3.3	Should be capable to seal the tube of 2–6 mm thickness.			
3.4	The system should run on both mains and batteries.			
			ļ	
3.5	Charger to be supplied with tube sealer.		<u> </u>	
3.6	The backup battery should seal more than 1000 seals.			
3.7	Should have a benchtop model.			
3.8	The sealing trigger should be automatic.			-
3.9	It should have indication lamps for Sealing Process.			
3.10	The sealing time should be less than 3 seconds.			
4	Accessories, spares and consumables		+	+
4.1	All standard accessories, consumables and parts required		-	+
	to operate the equipment, including all standard tools and			
	cleaning and lubrication materials, to be included in the			
	offer. Bidders must specify the quantity of every item			
	included in their offer (including items not specified			
	above).			
5	Operating Environment			
5.1	The product offered shall be designed to be stored and to			
	operate normally under the conditions of the purchaser's			
	country. The conditions include Power Supply, Climate,			
	Temperature, Humidity, etc.			



6	Standards and Safety Requirements		
6.1	Should submit ISO13485 for Medical		
	Devices and CE (93/42 EEC Directives) or LISEDA		
	Approved certificate.		
6.2	Electrical safety conforms to standards for electrical	 -	
	safety IEC 60601.		
7	User Training	 -	
7.1	Must provide user training (including how to use and	 	
	manuam the equipment).		
8	Warranty	 	
8.1	Comprehensive warranty for 1 year after acceptance.		
9	Maintenance Service During Warranty Period		
9.1	During the warranty period supplier must ensure	 	-
1	preventive maintenance and corrective/break down		
10	maintenance whenever required.		
10	Installation and Commissioning		
10.1	The state of the s		
	and commissioned by certified or qualified personnels and		
	prerequisites for installation to be communicated to the		
11	purchaser in advance, in detail.		
	Documentation Ligarity Communication		
11.1			
11.2	2 Certificate of calibration and inspection from factory		

21.

Platelet Agitator with Incubator

S.N.	Purchaser's Specifications		Compliance	
	Platelet Agitator with Incubator	Yes/No	Page No. in Catalogue	Remarks
	Manufacturer:			
	Brand:			
	Type / Model:		1	
	Country of Origin:			
1	Description of Function			
1.1	Platelets need to be agitated 24/7 and kept in temperature			
	controlled environment for storage. Agitator and incubator			
	provide ideal conditions for storage of platelets			
2	Operational Requirements			
2.1	The system should be capable of agitating the platelets and			
	Maintaining the temperature suitable for storage of		1	
	platelets.			
3	Technical Specifications			
3.1	Platelet Incubator:			
	Platelet incubator must be made of stainless steel.			
3.2	Should have Microprocessor based operating system.			
3.3	Outer door to be transparent, door with locking facility for "one hand" operation.			
3.4	Should be able to maintain a temperature of 22 +/- 2 °C			
3.5	Should have a digital temperature indicator.			
3.6	Should have a Seven-day inkless chart recorder with battery backup for a minimum of 2 hours of continuous operation during power failure.			
3.7	Should have an audible and visual alarm.			
3.8	Should have the system for High or low alarm for temperature control, battery on/low, Sensor failure, power failure			
3.9	Should have a forced air circulation method for the uniformity of the temperature on all sides of the incubator.			
3.10				
3.11	Chamber-mounted electrical outlet for the agitator should be available.			
3.12				
	Internal Surface: Sturdy; Stainless Steel Powder Coated External Surface: Study and Corrosion Resistant			
3.13	Shelves are made of non-slip materials. Corrosion-resistant material, coated with bacteria-resistant material, is perforated to ensure air circulation and has sufficient			



	clearance to minimize noise.			
3.14	Gentle side-to-side agitation at 3.6–4 cm side-to-side, 60–70 strokes/min			
3.15	Heavy-duty ball-bearing gear motor for noiseless and continuous operation for 24 hours a day throughout the year.			
3.16	It should have a capacity for 40-50 platelet bags.			
3.17	There should be an independent, continuous source of power for alarms.			
4	Accessories, spares and consumables			
4.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).			
5	Operating Environment			
5.1	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6	Standards and Safety Requirements			
6.1	Should submit ISO13485 and ISO 9001 for Medical Devices and CE (93/42 EEC Directives) or USFDA Approved certificate.			
6.2	Electrical safety conforms to standards for electrical safety IEC 60601-1 General requirement for Electrical safety of Medical Equipment.			
7	User Training			
7.1	Must provide user training (including how to use and maintain the equipment).			
8	Warranty			
8.1	Comprehensive warranty for 1 year after acceptance.			
9	Maintenance Service During Warranty Period			
9.1	During the warranty period supplier must ensure preventive maintenance and corrective/break down maintenance whenever required.			
10	Installation and Commissioning	-		
10.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.			
11	Documentation Lin Fredish	-	-	
11.1	User (Operating) manual in English.	+		
11.2	Certificate of calibration and inspection from factory	L	L	



3-1.

Blood Bank Refrigerated Centrifuge

S.N.	Purchaser's Specifications				
''	Blood Bank Refrigerated Centrifuge	Bidder's Compliance Sheet			
		Yes/No	Page No. in Catalogue	Remarks	
-	Manufacturer:		outurogue		
	Brand:				
	Type / Model:				
1	Country of Origin:				
1.1	Description of Function				
1.1	Blood Bank Refrigerated centrifuges are designed for separation of blood components like packed cells, platelet rich plasma, platelet Concentrate, plasma.				
2	Operational Requirements				
2.1	Programmable Logic Controller system with 8 or more				
	bags capacity. Floor standing model with lockable castors.				
3	Technical Specifications				
3.1	Refrigerated centrifuges should have a CFC-free refrigerant.				
3.2	Should have a touch-screen display of 7" or more				
3.3	Should be capable of storing multiple programs for preparing PRBC, plasma, cryoprecipitate, platelet concentrate, washed RBC, etc.				
3.4	Should have a memory with a tamper-proof facility.			1	
3.5	Should have a stainless steel chamber for easy cleaning and corrosion resistance, with the provision of both a drain and a condensed water collection container.				
3.6	Swing bucket blood bank rotor: Suitable adapters for atleast 8 blood bags of 350 ml. & 450 ml.				
3.7	Should have removable plastic cups with partition to hold single/double/triple/quadruple blood bags.				
3.8	Should be equipped with automatic double lid lock. and open system.				
3.9	Should have PLC-controlled rotor speed to within 10 rpm of the set value.				
3.1	O Acceleration and deceleration profiles shall be available.				
3.1	of the set temperature, regardless of centrifuge speed.				
3.1	2 It should have a programmable time of 1-99 minutes with		+	-	



a minimum resolution of 1 minute	
•	
Temperature range: -20 to 40 degree C	
Should have auto pre-cooling system.	
It should have a programmable speed of 0 to 4,200 rpm.	
It should have a digital display of temperature, speed, time; deceleration; acceleration; and RCF	
Should have brush less maintenance free motor to ensure less vibration and noise.	
It should have a motor imbalance detection system. Automatic shutdown of the centrifuge if the rotor load is out of balance with the appropriate indicator.	
Should incorporate alarms for imbalance detection, lid interlock, over temperature, and rotor over speed.	
The equipment should be capable of operating continuously for 8 to 12 hours.	
Should have Safety interlock to prevent door opening during centrifugation.	
Should have password protected system.	
Accessories, spares and consumables	
All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).	
The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.	
Power Supply: AC 220-240 V, 50/60 Hz	
Standards and Safety Requirements	
Should submit ISO13485 and ISO 9001 for Medical Devices and CE (93/42 EEC Directives) or USFDA Approved certificate.	
Electrical safety conforms to standards for electrical safety IEC 60601-1 General requirement for Electrical safety of Medical Equipment.	
User Training	
Must provide user training (including how to use and maintain the equipment).	
	It should have a programmable speed of 0 to 4,200 rpm. It should have a digital display of temperature, speed, time; deceleration; acceleration; and RCF Should have brush less maintenance free motor to ensure less vibration and noise. It should have a motor imbalance detection system. Automatic shutdown of the centrifuge if the rotor load is out of balance with the appropriate indicator. Should incorporate alarms for imbalance detection, lid interlock, over temperature, and rotor over speed. The equipment should be capable of operating continuously for 8 to 12 hours. Should have Safety interlock to prevent door opening during centrifugation. Should have password protected system. Accessories, spares and consumables All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above). Operating Environment The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc. Power Supply: AC 220-240 V, 50/60 Hz Standards and Safety Requirements Should submit ISO13485 and ISO 9001 for Medical Devices and CE (93/42 EEC Directives) or USFDA Approved certificate. Electrical safety conforms to standards for electrical safety IEC 60601-1 General requirement for Electrical safety of Medical Equipment. User Training Must provide user training (including how to use and



8	Warranty	
8.1	Comprehensive warranty for 1 year after acceptance.	
9	Maintenance Service During Warranty Period	
9.1	During the warranty period supplier must ensure preventive maintenance and corrective/break down maintenance whenever required.	
10	Installation and Commissioning	
10.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.	
11	Documentation	
11.1		
11.2	Certificate of calibration and inspection from factory	

3/4

Micro Pipettes

	urchaser's Specifications Iicro Pipettes	Yes/No	Page No. in
			Catalogue
	1anufacturer		1
	Brand		
	Type / Model		
	Country of Origin		
	Description of Function		
	Laboratory instrument used to measure small amounts of liquids and		
$\overline{}$	transfer a precise amount of fluid from one container to another.		
	Operational Requirements		
	Required in various sizes and compatible with all brands of tips.		
3	System Configuration		
3.1	Micropipettes of different sizes.		
4	Technical Specifications		
4.1	Micro pipettes required in following sizes:		
	1-10ul; 10-100ul; 100-1000ul		
4.2	Suitable for all brands of tips.		
4.3	Adjustable for variable volume.		
4.4	Shall have high accuracy and precision.		
4.5	With tip ejector mechanism.		
4.6	Made of corrosion proof material.		
4.7	Fully autoclaveable at 121 °C.		
5	Accessories, spares and consumables		
5.1	All standard accessories, consumables and parts required to operate the		
	equipment, including all standard tools and cleaning and lubrication		
	materials, to be included in the offer. Bidders must specify the quantity		
	of every item included in their offer (including items not specified		
	above).	-	
6	Operating Environment		
6.1	The system offered shall be designed to be stored and to operate		
	normally under the conditions of the purchaser's country. The conditions	'	
	include Climate, Temperature, Humidity, etc.		
7	Standards and Safety Requirements Must submit ISO13485:2003/AC:2007 for Medical Devices AND		
7.1	CE or USFDA approved product certificate.		
7.2			
8	User Training Not applicable.		
8.1	Warranty		
9	Comprehensive warranty for 1 year after acceptance.		
9.1	Maintenance Service During Warranty Period		
10	l'élans are applicable		
10.	Installation and Commissioning		
11	t whiled unit ready to like		
11.	The state of the s		
12.			
12.	English.	1	



54.

Plasma Thawing Bath

.N.	Purchaser's Specifications			Bidder's Compliance Sheet			
	Plas	ma Thawing Bath	Yes/No	Page No. in Catalogue	Remarks		
	Mai	nufacturer :					
	Brai	nd:					
	Тур	e / Model:					
	Cou	untry of Origin:					
		scription of Function					
.1		sma thawing bath is table top model designed for quick wing of frozen plasma at 37.0°C.					
2	Or	perational Requirements					
2.1	It t	thaws plasma units in circulated water					
3.1	It de m	should have a table top with a top opening. Having a sep thawing chamber with a stirrer and with water anintained at +37 at 1 °C with a pumping mechanism and sed for the thawing of fresh frozen					
3.2	2 11	nline heating to ensure uniform thawing					
3		System be able to thaw at least 16 or more plasma bags					
3.	1	There should be two separate basket assemblies within the built-in fingers for securely holding the plasma bags of all sizes.					
3		Should have a tray with individual compartments to ensure that ports of bags may be kept above water level during the procedure.					
3	3.6	Should give an alarm when the plasma bags are thawed.					
	3.7	Should have provision for programmable time setting for length of thawing					
	3.8	Should have a digital timer clearly displaying the programmed set time or remaining cycle in minutes.					
	3.9	Should have an audio-visual over-temperature alarm system. Should have a system to drain the chamber easily.					
	3.10	when not in use.					
	3.11	It should have a simple-touse and easy-to-read LED display.					



3.12	Drain lines with a shut-off valve.		
3.12	Diant fines with a shut-off varve.		
3.13	Should have removable-type stainless steel trays with		
	partitions for holding plasma bags		
4	Accessories, spares and consumables		
4.1	All standard accessories, consumables and parts required		
1	to operate the equipment, including all standard tools and		
	cleaning and lubrication materials, to be included in the		
	offer. Bidders must specify the quantity of every item		
	included in their offer (including items not specified		
	above).		
5	Operating Environment		
5.1	The product offered shall be designed to be stored and to		
	operate normally under the conditions of the purchaser's		
	country. The conditions include Power Supply, Climate,		
	Temperature, Humidity, etc.		
5.2	Power Requirements: Input voltage 220-240 V/ 50Hz.		
6	Standards and Safety Dequirements	1	
6.1	Standards and Safety Requirements Should submit ISO13485 and ISO 9001 for Medical		
0.1	Devices and CE (93/42 EEC Directives) or USFDA		
	Approved certificate.		
6.2			
0.2	safety IEC 60601-1 General requirement for Electrical		
	safety of Medical Equipment.		
7	User Training		
7.1			
/ /	maintain the equipment).		
8	Warranty		
8.	Comprehensive warranty for 1 year after acceptance.		
9	Maintenance Service During Warranty Period		
9.	During the warranty period supplier must ensure		
ľ	preventive maintenance and corrective/break down		
	maintenance whenever required.		
10	Installation and Commissioning		
10	0.1 The bidder must arrange for the equipment to be installed		
	and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the		
	prerequisites for installation to be communicated to the		
_	purchaser in advance, in detail.		
1	- in Finglish		
	c 111 - 1' and inchection from Iactory		
	1.2 Certificate of calibration and hispection from factory		

Blood Donor Couch

N.	DI	Purchaser's S	pecifications	Bidder's Compliance Sheet				
		Manufacturer		Yes/No	Page No. in Catalogue	Remarks		
-+		and						
		pe / Model						
	Co	ountry of Origin						
_	De	escription of Function						
.1	BI	ood Donor Couch is a co	ompletely automatic					
	en	iveloping, variable tilt ch	air and specially designed					
	10	make blood withdrawal	easy, safe and functional					
	ai	id also for other diagnos	tic and theraneutic areas	1				
	P	rovides a comfortable po	sition for the donor	1				
2	C	perational Requirement	nte					
2.1	C	Comfortable chair type w	ith soft nadding for					
	c	ushioning and rexin cover	er.					
3	5	System Configuration	v1.					
3.1		Blood Donor Couch com	nlete system and!					
		complete accessories.	piete system and with					
4		Technical Specifications						
4.1	+	Variable positioning for	either arm with comfortably					
		wide arm-rests, width at	least 100 min comfortably					
		wide armi-resis, widin at	least 100mm.					
4.2	\dashv	Arm rests have swinging	g out as well as up and down					
\		moving facility.	g out as well as up and down					
4.3			ody positions with a smooth					
"		shifting to any position.	ody positions with a smooth					
4.4		Both sides have support	ing brooksts					
4.5	_		est size designed for donor	-				
1.5		comfort. Seat height app	proving tely 58 60 cm					
4.6	5	Adjustable arm rest for	donor's comfort and					
"	J	phlebotomist friendly.	donor's conflort and					
4.	7	Comfortable working le	evel for the operator					
4.		Lifting capacity - Appro						
4.		4 lockable antistatic case						
	10		ring consumables and blood					
''		collection monitors.	0 2011011111111111111111111111111111111					
4	.11	UP/DOWN control.						
_	.12	Easily tilted to head lov	y position, electrically					
	_	operated: If a vasovaga	l attack occurs, the Donor's					
		head needs to be lower	ed immediately and legs					
		should be lifted above	heart level so that blood can					
		flow back to the brain	and other vital organs. This			*		
		facility must be availal	ole.					
4	.13	All electrical actuators	and mechanisms must be					
		housed inside the struc	ture making the product safer	.				
1		1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m						

5	Accessories, spares and consumables		
5.1	Accessories:		
	• Dust cover -01		
	Arm Rests (pair) -01 pair		
	Remote control -01		
5.2	All standard accessories, consumables and parts		
	required to operate the equipment, including all		
	standard tools and cleaning and lubrication materials,		
	to be included in the offer. Bidders must specify the		
	quantity of every item included in their offer		
	(including items not specified above).		
6	Operating Environment		
6.1	The system offered shall be designed to be stored and		
	to operate normally under the conditions of the		
	purchaser's country. The conditions include Power		
	Supply, Climate, Temperature, Humidity, etc.		
6.2	Power supply: 220 – 240 V AC, 50Hz fitted with		
	appropriate plug. The power cable must be at least 3		
	metre in length.		
7	Standards and Safety Requirements		
7.1	Must submit ISO13485:2003/AC:2007 for Medical		•
	Devices AND		
7.2	CE (93/42 EEC Directives) or USFDA approved		
	product certificate.		
7.3	Electrical safety conforms to standards for electrical		
0	safety IEC-60601.		
8.1	User Training		
8.1	Must provide user training (including how to use and		
9	maintain the equipment).		
9.1	Warranty Comprehensive wearranty for 2 years of an		
7.1	Comprehensive warranty for 2 years after		
10	acceptance. Maintenance Service During Warranty Period		
10.1	During the warranty period supplier must ensure		
10.1	corrective/breakdown maintenance whenever		
	required.		
11	Installation and Commissioning		
11.1	The bidder must arrange for the equipment to be		
	installed and commissioned by certified or qualified		
	personnel; any prerequisites for installation to be		
	communicated to the purchaser in advance, in detail.		
12	Documentation		
12.1	User (Operating) manual in English		
12.2	Service (Technical / Maintenance) manual in English		
12.3	List of important spare parts and accessories with		
	their part numbers and costing.		
	Bidder must fill the Technical Specification Form (TS)	E) completely, Only, VECAIO all as	

PORTABLE HEMOGLOBIN ANALYSER

	Purchaser's Specification	Dis		
	PORTABLE HEMOGLOBIN ANALYSER	Bidder's C	ompliance Sheet	
	Manufacturer:	Yes/No	Page No. in Catalogue	Remarks
	Brand:		Catalogue	
-	Type/Model:			-
	Country of origin:			-
	Description of Functi			
.1	This device is used for my			
_	This device is used for measuring Haemoglobin from the blood instantly.			
	Operational Requirements			
2.1	nemoglobin measurement al.			
	or arterial whole blood with disposable micro cuvettes. Technical specification			-
3	Technical specification			
3.1	Measurement Times Should be 0.3-25.6 g/dL			-
3.2	Measurement Time: Should not be more than 3sec			
3.3	Sample type: capillary			
	Sample type: capillary, venous or arterial whole blood sample.			
3.4	The sample.			
3.5	Sample Volume: not more than 10 µl			
	Both AC adapter or battery operation should be possible.			
3.6	possible.			
3.7	The instrument should be portable and light weight.			
٠	Should have large LCD display, capability to			
	connect printer and software for operation using computer.			
3.8	Should be feete were 121			
5.0	Should be factory calibrated. Provision for blood			
	based liquid calibration for cross checking is preferable.			
3.9				
3.5	Continuous reading mode & stand by: The device			
	should always be ready for measurement. When not in use, it should automatically go to standby mode.			
3.10	Cuvette should be disposable and come in air tight			
	container with flip cap for easy opening and closing.			
3.11	Micro cuvette should show excellent lot to lot			
	reproducibility			
3.12		-		
	of turbidity is required for accuracy.			
3.13	Shelf life of the cuvette must be at least 2 years. It is			-
	irrespective of when the pack is opened.			
3.14				-
	temperature.			
3.15				
3.16				
	computer using Basic connect software for data			
	transfer.			
3.17	Should be operable in cold at 10-40° C			+



PORTABLE HEMOGLOBIN ANALYSER

	1.7. 11. 10			
3.18	Quality control: Built in self-test, provision for			
	optional liquid control.			
4	Accessories, spares and consumables			
4.1	All standard accessories, consumables and parts required			
	to operate the equipment, including all standard tools and			
	cleaning and lubrication materials, to be included in the			
	offer. Bidders must specify the quantity of every item	1		
	included in their offer (including items not specified			
	above).		-	
5	Operating Environment			
5.1	The product offered shall be designed to be stored and to			
	operate normally under the conditions of the purchaser's			
	country. The conditions include Power Supply, Climate,			
	Temperature, Humidity, etc.			
6	Standard and Safety requirement			
6.1	Must submit ISO13485:2003/AC: 2007 for Medical			
	Devices.			
6.2	Electrical safety conforms to standards for electrical	1		
	safety IEC 60601.			
6.3	CE and USFDA approved product. Should be able		11	
0.5	show recommended by WHO for anemia screening			
	certification			
7	Installation and Training			
7.1	The bidder must arrange for the equipment to be			
/.1	installed and commissioned by certified or qualified			
	personnel: any prerequisites for installation to be			
	communicated to the purchaser in advance, in detail.			
7.2	Must provide user training (including how to use and			•
1.2	maintain the equipment)			
8	Support and Maintenance			
8.1	Warranty: comprehensive warranty for 2 years after			
0.1	accentance			
8.2	Maintenance service should be there within and after			
0.2	warranty period including preventive and corrective			
	maintenance service whenever required.			
-	Documentation			
9	User (Operating) manual in English.			
9.1	Certificate of calibration and inspection from factory			
9.2	Certificate of calibration and inspection from factory			
9.3	List of important spare parts and accessories with			
	their part numbers and costing.			

Bidder must fill the Technical Specification Form (TSF) completely. Only YES/NO all complies should not be written. Page number in the catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technical committee.

Manual Plasma Expressor

Manua	I Plasma Expressor	Bidder's Compliance Sheet			
SN	Purchaser's Specifications		Page No.	Remarks	
	Manual Plasma Expressor	Yes/No	in Catalogue		
1	Manufacturer:				
	Brand:				
	Type / Model:				
	Country of Origin:				
1	Description of Function				
1.1	This device extracts blood components plasma from centrifuged blood bags.				
2	Operational Requirements				
2.1	The system should be capable of extracting plasma from				
	centrifuged blood bags.				
3	Technical Specifications				
3.1	Compressor plate design to exert uniform pressure on				
	donor bag minimizing chances of rapture of bag.	_			
3.2	Easy to use and portable.				
3.3	The device should have build in thick acrylic pressure				
	plate.				
3.4	Spring loaded front panel should apply pressure on the				
	collected back causing the liquid to contain in transfer				
	bag				
4	Accessories, spares and consumables				
4.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).				
5	Operating Environment				
5.:	00 1 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
6	Standards and Safety Requirements				
6.	1 100 0001 f- M-1:-1				
7	User Training				
_	Must provide user training (including how to use and maintain the equipment).				
8	Warranty				
8	.1 Comprehensive warranty for 1 year after acceptance.				

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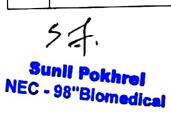
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	Maintenance Service During Warranty Period	
	During the warranty period supplier must ensure preventive maintenance and corrective/break down	
	maintenance whenever required.	
	A A Hation and Commissioning	
10.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel.	
11	Documentation	
11.1	User (Operating) manual in English.	
11.2	Certificate of calibration and inspection from factory	

57.

Blood Bank Refrigerator

Blood	od Bank Refrigerator		Bidder's Compliance Sheet			
S.N.	Deschasor's Specifications	Yes/No	Page No.	Remarks		
	Blood Bank Refrigerator		in			
			Catalogue			
	Manufacturer:					
	Brand:					
	Type / Model:					
	Country of Origin:					
1	Description of Function					
1.1	A blood bank refrigerator is used to store blood bags under					
	controlled temperature conditions.					
2	Operational Requirements					
2.1	The system should store whole blood/PRBC bags at a					
	temperature controlled specifically for efficient storage of					
	whole blood/PRBC.					
	Refrigeration system: CFC-free, refrigerant cooling					
	system, 220-240 V/50 Hz					
3	Technical Specifications					
3.1	The system must have high density CFC-free urethane					
	foam insulation to protect cabinet from ambient					
	temperature fluctuation. The system must have positive, forced, air circulation to					
3.2	The system must nave positive, forced, an encountries					
	maintain temperature uniformity at all shelf levels, with					
-	quick recovery +/- 1 °C. The system must have automatic condensation removal					
3.3	with no requirement for separate drainage lines					
2.4	Roll-out type drawers, stainless steel scratch-resistant					
3.4	material, Should there be a separator in the drawers, it					
	should be such that blood bags are held in a vertical					
	position with the label side visible.					
3.5	Should have lockable door. Outer door shall be made of					
5.5	glass to see through and inner door shall be made of					
	acrylic sheet to ensure ease of operations, better					
	maintenance of internal temperature.					
3.6	Should have door opening audio and visual display alarm.			-		
3.7	Door locks should be available.					
3.8	Should have interior lighting or illumination,			 		
3.9						
3.1	O Should have a temperature range of +2 C to +8 °C and be					
7.1	adjustable with a setting accuracy of 0.1 °C and a set		1			
	temperature of +4 °C.					
1 2 1	2 Line and the second			-		
3.1				-		
3.1	2 Ambient temperature of +10 °C to +40 °C.					
	C150 ' an halflood	-				
3.1	1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	:				
3.1	4 Internal temperature holdover time in case of power failure					
	should be at least 1.5 hours.					



	witaring system should have a digital			
3.15	The temperature monitoring system should have a digital			
-1.1	The temperature (LED) display with a 0.1 degree Celsius			
	graduation.			
	Should have a temperature-recording device. Each chart			
3.16	Should have a temperature-recording device. Each chart			
	has a record a minimum of 7 days.			
3.17	Should have a microprocessor control system for			
ľ	anaration, an integrated audio-visual temperature alarm		1	
	function, and a digital monitoring display.			
2.10	Should have an independent safety thermostat to avoid			
3.18	negative temperatures. It has at least two temperature			
			1	
	sensors.			
3.19	Should have a capacity to store approx 150 or more			
3.19				
l l	bags.			
3.20	Should have an audio-visual alarm for power-on or failure,			
	On/off display of compressors, Display of battery status,			
	High or low temperature, Door open/close system.			
3.21	Should have Lockable Castor wheels			
2 22	Should have Separated acrylic door for tray.			
3.22	Should have Separated acrylic door for tray.		_	
4	Accessories, spares and consumables			
4.1	All standard accessories, consumables and parts required		1	
	to operate the equipment, including all standard tools and		1	
	cleaning and lubrication materials, to be included in the			
	offer. Bidders must specify the quantity of every item			
	included in their offer (including items not specified			
	above).			
5	Operating Environment			
5.1	The product offered shall be designed to be stored and to			
	operate normally under the conditions of the purchaser's			
	country. The conditions include Power Supply, Climate,			
<u></u>	Temperature, Humidity, etc.	1		
6	Standards and Safety Requirements			1
6.1	Must submit ISO13485 and ISO 9001 for Medical			
	Devices and CE (93/42 EEC Directives) or USFDA			
(2	Approved certificate.			-
6.2	Electrical safety conforms to standards for electrical			
	safety IEC 60601-1 General requirement for Electrical			
7	safety of Medical Equipment.	-		-
7	User Training Must provide user training (including how to use and			-
7.1	Must provide user training (including how to use and			
0	maintain the equipment).			1
8	Warranty			+
8.1	Comprehensive warranty for 1 year after acceptance.			
9.1	Maintenance Service During Warranty Period			+
9.1	During the warranty period supplier must ensure			



	preventive maintenance and corrective/break down maintenance whenever required.		
	maintenance whellever required.	 	
10	Installation and Commissioning		
10.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.		
11	Documentation		
11.1	User (Operating) manual in English.		
11.2	Certificate of calibration and inspection from factory		

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