

Vortex mixer

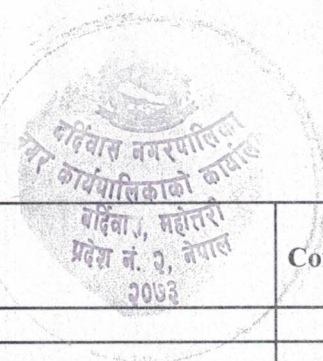
S.N.	Purchaser's Specifications	Bidder's Compliance Sheet			
		Yes	No	Page No. in Catalogue	Remarks
	Vortex Mixer				
	Manufacturer				
	Brand				
	Type / Model				
	Country of Origin				
1	Description of Function				
1.1	Vortex mixer is a laboratory device used to mix small vials of liquid.				
2	Operational Requirements				
2.1	Vortex Mixer with complete accessories.				
3	System Configuration				
3.1	Vortex Mixer with complete accessories.				
4	Technical Specifications				
4.1	Minimum speed: 2000rpm. (approx.)				
4.2	Must be able to spin in circular orbital for effective vortexing at any speed.				
	Shall have option of two speeds is given preferable.				
4.3	Shall have touch or continuous operating mode.				
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 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.				
7	Standards and Safety Requirements				
7.1	Must submit ISO 9001 or ISO 13485:2003/AC:2007 AND				
7.2	CE (93/42 EEC Directives) approved product certificate.				
8	User Training				
	Must provide user training (including how to use and maintain the equipment).				
8.1					
9	Warranty				
9.1	Comprehensive warranty for 1 year and extra 1 year free AMC				
10	Maintenance Service During Warranty Period				
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.				
11	Installation and Commissioning				
	Supplier must accomplish proper installation and commissioning of the equipment on site.				
11.1					
12	Documentation				
12.1	User (Operating) manual in English				
12.2	Service (Technical / Maintenance) manual in English				
	List of important spare parts and accessories with their part numbers and costing.				
12.3					
12.4	Certificate of calibration and inspection from factory.				

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. Failure in doing so may lead to rejection of bid from technical committee.


प्रमुख प्रशासकीय अधिकृत

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Real Time PCR Thermal Cycler



S.N.	Purchaser's Specifications	Bidder's Compliance Sheet
	Real Time PCR Thermal Cycler	
	Manufacturer	
	Brand	
	Type/Model	
	Country of Origin	
1	Description of Function	
1.1	Real Time PCR is an instrument that employs precise temperature control and rapid temperature changes to conduct the polymerase chain reaction (PCR) with Real-time amplification of DNA/RNA from purified samples	
2	Operational Requirements	
2.1	Real Time PCR thermal cycler with complete accessories.	
3	System Configuration	
3.1	Real Time PCR thermal cycler with complete accessories.	
4	Technical Specifications	
4.1	System must be Rotor Based system with varying capacity of 36 to 72 or 96 well block format.	
4.2	Optical System: Shall have CCD camera or dedicated hardware for HRM with integrated software.	
4.3	Calibrated Dyes system: Must have minimum FAM, SYBR Green, and ROX.	
4.4	Additional Dyes: Provisional for additional dye calibration and application.	
4.5	Excitation Plexing: Must have minimum 5 plexing (multi-plex).	
4.6	Reaction Volume: 5 – 100 micro liter	
4.7	Sensitivity: - Detection of template as low as one to two copy in a reaction .	
4.8	Run time: 35- 70 minutes	
4.9	Sample Format: Shall have 4 tube strips 0.1 and 0.2 ml tube capacity. OR 96 well plates, 8 tubes strips and 0.2ml tube capacity.	
4.10	Performance Temperature Accuracy: ± 0.5 of set-point/displayed temperature.	
4.11	Temperature Uniformity: ± 0.40 °c	
4.12	Temperature range: upto 99 °c	
4.13	Maximum Ramp rate: 5 °c/sec or more.	
4.14	Average sample ramp: 3.66°c/sec	
4.15	Consumables: 0.1 ml and 0.2 PCR tubes, 4 tube strips. OR 8 tube strips.	
4.16	Notebook PC/Laptop Configuration: CPU pentium core i3, 2.7 GHz or above; minimum 3 GB RAM; minimum 500 GB Hard Disk Drive; High Speed DVD R/W; Keyboard (IOS), Mouse and Mouse Pad; Preloaded latest MS Windows Versions activated ; Monitor size 19" or higher; latest anti-virus with one year validity. Must provide printer.	
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	UPS Backup of suitable rating for at least 30 minutes to be supplied for the entire system	
6.2	The system offered shall be designed to store and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.	

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6.3	Power supply: 220-240V/ 50 Hz AC Single phase fitted with appropriate plugs to meet purchaser's country requirements. The power cable must be minimum 3 metres long.	
7	Standards and Safety Requirements	
7.1	Must submit ISO 9001 or ISO 13485:2003/AC: 2007	
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 on machine and parts for 2 year from the date of installation.	
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	Supplier must accomplish proper installation & commissioning on site. Application training must be given on site and minimum 10 tests to be done in the lab at the time of installation and training.	
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.	

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PCR Master Mix Cabinet

S.N.	Purchaser's Specifications	Bidder's Compliance Sheet	Page No. in Catalogue	Remarks
	Manufacturer			
	Brand			
	Type/Model			
	Country of Origin			
1	Description of Function			
1.1	PCR-master mix cabinet creates an ideal environment for preparing PCR and other samples by reducing the chance of sample contamination.			
2	Operational Requirements			
2.1	PCR Master Mix cabinet system with complete accessories for PCR sample preparation.			
3	System Configuration			
3.1	PCR Master Mix cabinet system with with digital display.			
4	Technical Specifications			
4.1	Shall have compact cabinet for suitable tabletop work place.			
4.2	Must have HEPA filter with efficiency of 99.99% at 0.3 micron.			
4.3	Laminar Airflow Velocity : 0.3m/s			
4.4	Automatic open UV-lamp switch off when screen is open			
4.5	Accommodate for necessary PCR equipments: auto-pipette and holder, reagent bottle, pipette box etc			
4.6	UV lamp with timer setup for a safe and efficient decontamination			
4.7	Automatic shut-off system of the UV lamp in case the operator opens the lower door by accident during the decontamination			
4.8	External lighting, with automatic shut-off system during UV lamp decontamination			
4.10	Internal Dimension (L x W x H): : 1200 x 500 x 500 mm appx.			
5	Accessories, Spares and Consumables			
5.1	All standard accessories, consumables and parts required to operate the equipment, including:			
6	Operating Environment			
6.1	The system offered shall be designed to store 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: 220/240V, 50/60HZ			
7	Standards and Safety Requirements			
7.1	Must submit ISO 9001 or ISO 13485:2003/AC: 2007 and CE approved product certificate.			
8	User Training			
8.1	Must provide user training (including how to use and maintain the equipment).			

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दिवस नगरपालिका
कार्यपालिकाको कार्यालय
दिवस महोत्तरी
पतेस नं. २, नेपाल
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प्रमुख प्रशासकीय अधिकृत

MicroCentrifuge

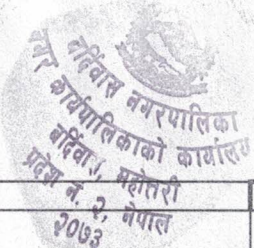
S.N.	Purchaser's Specifications	Bidder's Compliance Sheet			
		Yes	No	Page No. in Catalogue	Remarks
	MicroCentrifuge (table top)				
	Manufacturer				
	Brand				
	Type / Model				
	Country of Origin				
1	Description of Function				
	Centrifuges are required in the laboratory to separate various components of				
1.1	Blood for analysis.				
2	Operational Requirements				
2.1	Bench top centrifuge				
3	System Configuration				
3.1	Centrifuge (bench top) with complete accessories.				
4	Technical Specifications				
4.1	Shall have Upto 7000 rpm. (approx.) fixed speed.				
4.2	Must be able to spin minimum 2 PCR strip or more with 1.5/2ml eppendorf slot adapter.				
4.3	System must have safety features like lid lock.				
5	Accessories, spares and consumables				
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 VAC, 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 ISO 9001 or ISO 13485:2003/AC:2007 AND				
7.2	CE (93/42 EEC Directives) approved product certificate.				
8	User Training				
	Must provide user training (including how to use and maintain the				
8.1	equipment).				
9	Warranty				
9.1	Comprehensive warranty for 1 year and extra 1 year free AMC				
10	Maintenance Service During Warranty Period				
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.				
11	Installation and Commissioning				
	Supplier must accomplish proper installation and commissioning of the				
11.1	equipment on site.				
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.				

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. Failure in doing so may lead to rejection of bid from technical committee.

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Refrigerated Centrifuge



S.N.	Purchaser's Specifications	Bidder's Compliance Sheet			
		Yes	No	Page No. in Catalogue	Remarks
	Refrigerated Centrifuge (table top)				
	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	Bench top centrifuge				
3	System Configuration				
3.1	Centrifuge (bench top) with complete accessories.				
4	Technical Specifications				
4.1	Maximum speed: upto 15000 rpm. (approx.)				
4.2	Must be able to spin 36 tubes or more of 1.5/2ml capacity				
4.3	System must have safety features like lid lock.				
4.4	Shall have temperature range from -10 to 40°C.				
4.5	Must have a speed control knob.				
4.6	Angular rotor type.				
5	Accessories, spares and consumables				
5.0	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 VAC, 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 ISO 9001 or ISO 13485:2003/AC:2007 AND				
7.2	CE (93/42 EEC Directives) 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 and extra 1 year free AMC				
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	Supplier must accomplish proper installation and commissioning of the equipment on site.				
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.				

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BSC Class II type A2

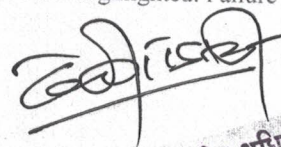
S.N.	Purchaser's Specifications	Bidder's Compliance Sheet			
		Yes	No	Page No. in Catalogue	Remarks
	BSC Class II type A2 (2x3ft internal)				
	Manufacturer				
	Brand				
	Type / Model				
	Country of Origin				
1	Description of Function				
1.1	BSC Class II used for safely working with materials contaminated with (or potentially contaminated with) pathogens requiring a defined biosafety level.				
2	Operational Requirements				
2.1	BSC Class II ensuring both the safety of sample and environment.				
3	System Configuration				
3.1	BSC Class II type with complete accessories.				
4	Technical Specifications				
4.1	Main Control: Full Digital Microprocessor based monitoring system with touch Pad				
4.2	Winding Velocity: 0.30 - 0.50m/s approx				
4.3	Display: Display Back Light LCD Digital Display				
4.4	Main filter: HEPA filter/0.3 micron 99.99% efficiency				
4.5	Working Table: Easy removable plate				
4.6	Material: Stainless steel SUS 304				
4.7	Cabinet: stainless steel plate with powder coating				
4.8	Air Recirculation: 30% (out), 70 % (recirculation)				
4.9	Door: Toughened Safety glass.				
4.10	Shall have internal dimension approx.(2x3ft internal)				
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 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.				
6.2	Power supply: 220-240V/ 50 Hz AC Single phase fitted with appropriate plug to meet purchaser's country requirements. The power cable must be minimum 3 metres long.				
7	Standards and Safety Requirements				
7.1	This unit shall be certified to meet ISO 9001 and/or ISO 14971 and/or ISO 13485 and/or 12469 and/or ISO 14644-1. AND				
7.2	Must submit CE/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 and extra 1 year free AMC				
10	Maintenance Service during Warranty Period				
10.1	During 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				

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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.				

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. Failure in doing so may lead to rejection of bid from technical committee.



प्रमुख प्रशासकीय अधिकृत

(19)

बिर्वास नगरपालिका
कार्यपालिकाको कार्यालय
बिर्वा, महोत्तरी
प्रदेश नं. २, नेपाल
२०७३

Laboratory Freezer (-20 °C)

SN	Purchaser's Specifications	Bidder's Compliance Sheet			
		Yes	No	Page No. in Catalogue	Remarks
	Laboratory Freezer (-20 °C)				
	Manufacturer				
	Brand				
	Type/Model				
	Country of Origin				
1	Description of Function				
1.1	Deep Freezers or Laboratory freezers are required to preserve blood and blood products, vaccines, plasma etc. at specified temperatures.				
2	Operational Requirements				
2.1	Microprocessor controlled frost-free Freezer				
3	System Configuration				
3.1	Ultra Low Deep Freezer (-20 °C), Vertical type.				
4	Technical Specifications				
4.1	A microprocessor controlled upright -20 °C deep freezer				
4.2	Capacity: Approx 100 litres.				
4.3	Freezer construction:				
	Outer panels and interior panels shall be made of corrosion resistant material, preferably stainless steel.				
4.5	Door:				
	Locking door supplied with minimum two keys.				
4.6	Castors:				
	High quality lockable castors for easy mobility.				
4.7	Trays:				
	Adjustable trays/racks (preferably stainless steel) with perforated design. (Bidder to indicate the number of tray/rack offered.)				
4.8	Alarm:				
	Audio-visual high & low temperature, door open/lock alarm.				
4.9	To be supplied complete with:				
	Mains electric, voltage stabilizer unit. Unit is to stabilize power supply, along with UPS minimum 1 hour backup.				
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 Power Supply, Climate, Temperature, S.N. Purchaser's Specifications, Humidity, etc.				
6.2	Power supply: 220-240VAC, 50Hz fitted with appropriate plug type D round 3 pins. The power cable must be at least 3 metre in length.				

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7	Standards and Safety Requirements				
7.1	Must submit ISO 9001 or ISO 13485:2003/AC: 2007 AND, महातरी				
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 1 year and extra 1 year free AMC				
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				
12.1	User (Operating) manual in English and/or				
	Service (Technical / Maintenance) manual in English				
12.2	List of important spare parts and accessories with their part numbers and costing available in stock with the supplier.				

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. Failure in doing so may lead to rejection of bid from technical committee.


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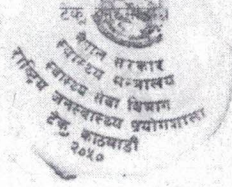
नेपाल सरकार
स्वास्थ्य तथा जनसंख्या मन्त्रालय
स्वास्थ्य सेवा विभाग

फोन नं. : ४२५२४२९
फ्याक्स : ९७७-१-४२५२३७५

राष्ट्रिय जनस्वास्थ्य प्रयोगशाला

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2020

च.नं. ११३३
प.सं. ०७६/७७



मिति २०७७/२/२८

श्री वर्दिवास नगरपालिका
वर्दिवास ।

विषय : PCR Machine को specification सम्बन्धमा ।

उपरोक्त सम्बन्धमा तहाँको चलानी नं. २६१८ को पत्रानुसार PCR Machine को specification उपलब्ध गराईदिन अनुरोध गर्नु भएकोमा PCR machine लगायत आवश्यक अन्य सामग्रीहरूको specification संलग्न रहेको व्यहोरा अनुरोध छ । साथै तहाँको आवश्यकताको आधारमा यसलाई परिमार्जन समेत गर्न सकिने व्यहोरा जानकारी गराइन्छ ।

डा. रुणा भा
निर्देशक