



28 May 2024

Bid Bulletin No. 1

**Subject: SUPPLY AND DELIVERY OF BIOFERMENTER, REFRIGERATED
MICROCENTRIFUGE, THERMAL CYCLER AND ULTRA LOW FREEZER**

PB 24-02-23

This bid bulletin is being issued to clarify and amend Section VI. Schedule of Requirements and Section VII. Technical Specifications in the bidding document.

Please refer to the attached documents for complete details.

Section VII (Revised Technical Specifications) must be included in the bid proposal as part of the Eligibility and Technical Component (1st envelope) to signify conformity to the revisions.

Please be guided accordingly.

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SECTION VI. Schedule of Requirements

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

Item no.	Description	Unit	Qty	Total ABC	Division	Delivery Period
1	Biofermenter	unit	1	4,100,000.00	RCFSD	60 calendar days upon receipt of PO/NTP
2	Benchtop Refrigerated Microcentrifuge	unit	1	400,000.00	RCFSD	
3	Thermal Cyclor	unit	1	500,000.00	RCFSD	
4	Ultra Low Temperature Freezer	unit	1	1,500,000.00	PBBD	120 calendar days upon receipt of PO/NTP

TOTAL ABC = P6,500,000.00

SECTION VII. Technical Specifications		
Item	Specification	Statement of Compliance <i>[Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]</i>
1	One (1) unit Biofermenter Controller: Fermenter with pH, DO (dissolved oxygen),temperature, filling level, foam, and conductivity sensors Operating Mode: Timer, Continuous and Program Operation Display: Tablet PC Operation: Touch Screen Data Memory Size: 32 GB With Auto Restart After Power Failure, Ethernet Interface Single Use Reactor Interface, Thermostat Interface, Ext. Pump Interface Filter Heater, LED light panel, Stirring motor, Calibration guide temperature, Calibration guide pH, Calibration pO2, pH Temperature Compensation Speed range: 1- 2200 rpm, Time setting range: 1-120 min Working temperature: 5- 60°Celsius Temperature measuring range: 0- 100°Celsius Temperature control accuracy: +/- 0.2°Celsius Temperature limit max.: 110°Celsius Safety circuit: 75°Celsius (adjustable) pH measuring range: 0-14 pH pH measurement resolution: 0.01 pH Accuracy of pH measurement: 0.02ph With Connection for pO2 sensor Peristaltic pump; Numbers of pump heads: 4 Pump head function: Acid, Base, Antifoam, Level Number of pump: tubes 4; Number of pump rollers 4	

	<p>Flow rate min.: 0.3 ml/min Flow rate max.: 270 ml/min Pump speed min.: 30 rpm Pump speed max.: 400 rpm Tube material: Silicone With USB interface Voltage: 220-240 V Frequency 50/60 Hz Power input: 300 W Power input max.: 1100 W Reactor: Fermenter Volume: Capacity: 10L minimum Vessel Type: Double Walled glass For Multi use and Autoclavable parts Inner diameter 190 mm minimum Ratio = height/inner diameter 2.47 minimum</p> <p>Can be used to monitor and control the bioprocess and fermentation process with complete sensors to measure the desired pH, dissolve oxygen, and temperature.</p> <p>Other requirements</p> <ol style="list-style-type: none">1. Warranty: 2 years (including parts and services), calibration and preventive maintenance one (1) year after delivery2. With a calibration/validation certificate or equivalent from manufacturer3. On-site training on basic operation and troubleshooting4. AVR, compatible UPS5. Accessories: Circulating cooling water system, Stand, Glass vessel (double-wall), Motor (big), Harvest pipe (straight), port for inoculation, baffle, Ring sparger (0.5 mm), Condenser, blade segment impeller (2 pcs.), temperature sensor, pH sensor, DO sensor, foam sensor, level sensor, cable and tube set, sample flask (duran bottle)-5L (2 pcs) and 1L (5 pcs)6. The company must be at least 5 years in the business7. The brand must be at least 5 years in the market (supported by proof of sales)	
2	<p>One (1) unit Benchtop refrigerated Microcentrifuge</p> <p>Applications: Nucleic acid and protein preparations, pelleting, extractions, purifications, concentrations, phase separations and fast sedimentation of protein precipitates, particulates, and cell</p>	

	<p>debris Type: Microcentrifuge Speed: 15,000 rpm maximum Maximum g-Force: 20,627 xg Timed Run: To 99 min, 59 sec in one-second increments or continuous Max Capacity Volume Range: 72 mL minimum Temperature Range(s): From -10°Celsius to +40°Celsius (with 1 degree increments) Weight: up to 35 kg maximum Humidity Restrictions: 80% (non-condensing) Rotor Specification: Fixed Angle Rotor, Aluminum Places: minimum of 36 holes Tube Volumes: 1.5/2.0 mL microcentrifuge tubes Platform: Microfuge Motor Type: Fixed-Angle (General Purpose) Rotor base size: 40 mm (min.) – 80 mm (max) - Operating/Working temperature: 25 to 30°Celsius</p> <p>Other Requirements:</p> <ol style="list-style-type: none">1. Warranty: 2 years, after one (1) year With a calibration/2. With calibration/ validation certificate or equivalent from manufacturer3. On-site training on basic operation and troubleshooting4. The company must be at least five (5) years in the market5. The brand must be at least ten (10) years in the market	
3	<p>One (1) unit Gradient Thermal Cycler</p> <p>Input power 220 to 240 VAC, 50 to 60 Hz Display 5.6" VGA color touch screen or wider Memory 500 typical programs onboard; unlimited with USB flash drive expansion Weight: up to 11 kg max Programming options: Step-based graphical Reporting Exportable run logs, system logs with Instant incubation Sample capacity 96 x 0.2 ml tubes, 12 x 8-tube (0.2 ml) strips, or 1 x 96-well plate; non-skirted Ramp rate: adjustable, 4°Celsius/sec maximum Average ramp rate: 2.5°Celsius/sec Temperature range: 4-100°Celsius Temperature accuracy: +/- 0.5°Celsius of</p>	

	<p>programmed target Temperature uniformity: +/- 0.5°Celsius well-to-well within 30 sec of arrival at target temperature Thermal Gradient: with gradient capability; Adjustable lid temperature Gradient range 30 to 100°Celsius ambient temperature :37 to 40°Celsius</p> <p>Other Requirements:</p> <ol style="list-style-type: none">1. Warranty: 2 years, after one (1) year calibration/validation, and preventive maintenance2. With calibration/validation certificate or equivalent from manufacturer3. On-site training on basic operation and troubleshooting4. The company must be at least five (5) years in the market5. The brand must be at least ten (10) years in the market	
4	<p>One (1) unit Ultra Low Temperature Freezer</p> <p>Ultra-Low Freezers Temperature Range: -50° -20°Celsius to -86°Celsius Certifications/Compliance: cULus ENERGYSTAR Amperage: 4/10 A Display Touch-Screen: LCD Refrigerant: Natural Hydrocarbon Capacity Shelf: 75 kg/165 lb. Shelves 3 Dimensions (D x W x H) Interior: at least 28 x 23 x 51 in. Dimensions (D x W x H) Exterior: at least 38 x 28 x 78 in Style Upright Electrical Requirements: 220-230V Alarm high and low temperature, power failure Independent dual compressor cooling system or equivalent ambient temperature :20 to 30 degree Celsius</p> <p>Product Specifications:</p> <ul style="list-style-type: none">• The suppliers shall supply refrigerators and freezers which fulfills at least ENERGY STAR 5.0 or with a maximum consumption of 15.772 kWhr/day for 200 L capacity. Supplier shall supply any third-party certification like Energy Regulatory commission for power consumption• The supplier shall ensure that the products do not contain “controlled	

	<p>refrigerants” as defined under the Ozone Layer Protection Regulation.</p> <ul style="list-style-type: none">• The supplier shall ensure that the products are repairable and that replacement parts are available (for minimum of 10 years after end of production).• The supplier shall supply the products in recyclable packages. <p>Other Requirements:</p> <ol style="list-style-type: none">1. 2 years warranty and 1 year preventive maintenance and calibration2. Compatible UPS and AVR3. 1 pair of cryogenic gloves4. training certificate of personnel	
	*****nothing follows*****	