



27 May 2024

Bid Bulletin No. 1

Subject: SUPPLY AND DELIVERY OF VARIOUS TECHNICAL AND SCIENTIFIC EQUIPMENT PB 24-02-20

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.

tem no.	Description	Unit	Qty	Total ABC	Division	Delivery Period
1	Single-channel Pipettors	unit	4	480,000.00	CBC	60 calendar days upon receipt of PO/NTP
2	Dual-Channel Portable pH / Conductivity / Ion / ORP meter, dissolved oxygen (DO)	unit	2	480,000.00		
3	Vacuum Concentrator	unit	1	1,200,000.00		
4	Microcentrifuge (non-refrigerated)	unit	2	300,000.00		
5	Top Loading Weighing Scale	unit	2	200,000.00		
6	Waterbath	unit	1	500,000.00		
7	Electronic Pipette (8 channel)	unit	1	250,000.00		
8	Multi-channel Pipettor	unit	1	80,000.00		
9	Sonicator	unit	1	300,000.00		
10	Electronic Laboratory Aspirator	unit	2	170,000.00		
11	Laboratory shaker	unit	1	100,000.00		
12	Shaking Incubator	unit	1	700,000.00		
13	Dehumidifier	unit	1	50,000.00		

TOTAL ABC = P 4,810,000.00

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.	<p>Four (4) units Single-channel Pipettors (2ul, 20ul, 200ul, 1000ul)</p> <p>Single-channel micropipette; adjustable autoclavable (121 Degrees Celsius, 20min); enhanced UV resistance; with hyper blower system or equivalent, longer second-push stroke, improves dispensing efficiency, easy digital volume setting, convenient single hand locking lever; with tip ejector made of plastic; with non-corrosive ceramic used in the plunger (200uL-1000uL) ejector pipe made of resin material; lightweight; 4-digit volume.</p> <p>Technical specifications per pipettor:</p> <p>Specs (1000 uL) Volume range:100-1000; Increments: 1; Accuracy: 100uL (+1.0%); 500 uL (+0.8%); 1000 uL (+0.7%);</p> <p>Specs (200 uL) Volume range: 20-200; Increments: 0.2; Accuracy: 20uL (+1.0%); 100 uL (+0.8%) 200 uL (+0.8%)</p> <p>Specs (20 uL) Volume range: 2-20; Increments: 0.02; Accuracy: 2uL (+5.0%); 10 uL (+1.0%) 20 uL (+1.0%)</p> <p>Specs (2 uL) Volume range: 0.1-2;</p>	

	<p>Increments: 0.002; Accuracy: +/- 2.00% to +/- 0.40%; 1 uL (+5.0%); 2 uL (+3.0%); Specs (2 uL)</p> <p>Inclusion:</p> <ol style="list-style-type: none"> 1. Carousel/holder 2. With calibration certificate upon delivery 3. One-time calibration after one (1) year with Certificate <p>Warranty:</p> <ol style="list-style-type: none"> 1. Parts and Components: two (2) years 2. Services: Two (2) years <p>Other requirements:</p> <ol style="list-style-type: none"> 1. The company must be at least 5 years in the business. 2. The brand must be at least 5 years in the market (supported by proof of sales) 	
2.	<p>Two (2) units pH / Conductivity/ Ion/ ORP Meter, Dissolved Oxygen (DO) (Portable, Dual Channel)</p> <p>Operating Environment: 0 - 40 degrees Celsius; 5 - 85% relative humidity</p> <p>Calibration: maximum 3 points, 4 predefined buffer groups;</p> <p>pH: 0.2-20 (resolution: 0.01; Accuracy: +/- 0.01);</p> <p>Temperature Conductivity: -5C-105°C;</p> <p>Salinity: 0.00-100.0ppt; mV:-1999 to 1999;</p> <p>Conductivity accuracy: +/- 0.5% maximum value in sub-range</p> <p>Conductivity Range: 0.01uS/cm - 1000 mS/cm</p> <p>Power Supply: 4 AA batteries 1.5 V or NiMH accumulator 1.3 V</p> <p>Dimension: 12 x 10 x 3 inches; 2 Pounds</p> <p>Inclusion:</p> <ol style="list-style-type: none"> 1. Spare pH probe and DO probe 2. Calibration Buffer 3. Hard Case (Plastic) 4. With calibration certificate <p>Warranty:</p> <ol style="list-style-type: none"> 1. Parts and Components: two (2) years 2. Services: One (1) year <p>Other requirements:</p> <ol style="list-style-type: none"> 1. The company must be at least 5 years in the business 2. The brand must be at least 5 years in the market (supported by proof 	

	of sales etc.)	
3.	<p>One (1) unit Vacuum concentrator</p> <ul style="list-style-type: none"> - Comes in 3 system configurations - Extremely quiet operation <50 dB(A) Chemical-resistant, maintenance-free PTFE diaphragm pump eliminates the need for changing pump oil - Small footprint saves valuable bench space - Wide variety of 15 different rotor options to accommodate tubes from 0.2 mL to 50 mL, microplates and PCR plates - Motorless induction drive and chemical-resistant, stainless steel chamber for trouble-free operation - Can be connected with most commercially available cold traps for use with vapors - Coated lid with superior chemical resistance <p>Specifications: Vacuum: 20 hPa (20 mbar) Sample capacity: maximum 144 vessels / 2 microplates Fixed speed: 1400 rpm volume capacity: 0.2 to 50 mL Product type: Centrifuges Port to connect external devices to vacuum pump: No Power supply: 230 V, 50 to 60 Hz Max. power consumption: 350 W Dimensions (W x D x H): 33 x 58 x 29 cm/ 12.6 x 20.9 x 11.7in) Product weight: 31.5 kg /68.3 lb Pump with integrated diaphragm vacuum pump</p> <p>Has the following declaration of conformity to the Relevant directives/standards:</p> <ul style="list-style-type: none"> - 2006/42/EC: EN ISO 12100 - 2014/35/EU: EN 61010-1, EN 61010-2-010, EN 61010-2020 - IEC 61010-2-010, IEC 61010-2-020 - UL 61010-1, CAN/CSA C22.2 No. 61010-1 - 2014/30/EU: EN 61326-1, EN 55011 - 47 CFR FCC part 15 - 2011/65/EU: EN 50581 <p>Certificate of Compliance for the following:</p> <ul style="list-style-type: none"> - Standard(s) for Safety: UL 61010-1, 3rd Edition; - CAN/CSA-C22.2 No. 61010-1-12, 3rd Edition, - Additional Standards: IEC 61010-2-010: 2014 (Third Edition) 	

	<ul style="list-style-type: none"> - IEC 61010 2-020: 2016 (Third Edition) <p>Inclusions:</p> <ul style="list-style-type: none"> - 48 x 1.5/2.0 mL fixed-angle rotor - Rotor 2xMTP Plate (A-2-VC) F/CONC/VACUF - Rotor A-2-VC, 2 x 96x0.2 ml - One-time user training for basic operation and troubleshooting - One (1) Preventive Maintenance after 1 year after delivery - With compatible AVR/UPS <p>Warranty:</p> <ol style="list-style-type: none"> 1. Parts and Components: two (2) years 2. Services: Two (2) years <p>Other requirements:</p> <ol style="list-style-type: none"> 1. The company must be at least 5 years in the business 2. The brand must be at least 5 years in the market (supported by proof of sales etc) 3. With a certificate of availability of spare parts for the next five (5) years 	
4.	<p>Two (2) unit Microcentrifuge (Non-refrigerated)</p> <p>Micro Centrifuge Net weight: 23.1lb (10.5kg) Capacity: 24 x 1.5/2mL, Max Speed: 14,800 rpm Max RCF: 21m100 x g 21 630xg Noise Level: 56dbA Temperature Range: Ambient Temperature (25-30 C) Certification/Compliance: CSA, CE, IVD Type: Benchtop Centrifuge</p> <p>Includes:</p> <ul style="list-style-type: none"> - 24 x 1.5/2.0mL rotor with Biocontainment lid, Ventilated, - Electrical Requirements : 230V 50/60Hz, , - Wattage : 230W, - Run Time: 1 to 99min (1 min increments); - Hold, Standards: IEC, 61010-1, IEC 61010-2-020, - Dimensions (HWD): 8.9 x 9.6 x 13.8in (22.5 x 24.3 x 35.2cm) <p>Inclusions:</p> <ul style="list-style-type: none"> - 1 unit of compatible UPS - 1 unit with compatible AVR - microcentrifuge tubes adapter (8 x 	

	<p>set of 6 pcs for 0.5mL tube)</p> <ul style="list-style-type: none"> - One-time user training for basic operation and troubleshooting - One (1) time Preventive Maintenance and calibration with certificate 1 year after delivery - Calibration Certification upon delivery <p>Warranty:</p> <ol style="list-style-type: none"> 1. Parts and Components: Two (2) years <p>Other requirements:</p> <ol style="list-style-type: none"> 1. The company must be at least 5 years in the business 2. The brand must be at least 5 years in the market (supported by proof of sales etc) 3. With a certificate of availability of spare parts for the next five (5) years 	
5.	<p>Two (2) units Top Loading Weighing Scale (Unit Mass Sensitivity)</p> <ul style="list-style-type: none"> - Accurate and reliable - 2200g capacity - 0.01g readability, - repeatability 0.007g, - minimum weight 1.4g, - maximum weight: 2200g - 4.5 inch color touchscreen, - fully automatic internal adjustment, - 3 interfaces, - 8 built-in applications, - overload protection, metal base. <p>Inclusions:</p> <ul style="list-style-type: none"> - One (1) time Preventive Maintenance and calibration with certificate 1 year after delivery - Calibration Certification upon delivery <p>Warranty:</p> <ol style="list-style-type: none"> 1. Parts and Components: Two (2) Years 2. Services: Two (2) years 	
6.	<p>One (1) unit Waterbath</p> <p>Heating Waterbath,</p> <ul style="list-style-type: none"> - 28L capacity, - Dimensions: 15.4 x 21.8 x 11.1 in, - with monochrome LCD, - heating capacity: 1200W - includes Clear Polycarbonate cover, with temperature controller (gable cover) - Temperature Stability: +/- 0.1degree 	

	<p>Celsius, - Temperature Uniformity: +/- 0.2 degree Celsius -Temperature Range: 20 to 100 degree Celsius -With built-in timer</p> <p>Inclusions:</p> <ul style="list-style-type: none"> - with floaters (12 x 24 tubes for 1.5ml tube capacity) - compatible AVR anti-surge - One (1) time Preventive Maintenance and calibration with certificate 1 year after delivery - Calibration Certification upon delivery <p>Warranty:</p> <ol style="list-style-type: none"> 1. Parts and Components: Two (2) years 2. Services: Two (2) years 	
7.	<p>One (1) unit Electronic Pipette (8 channel, 0.50 - 10uL,)</p> <ul style="list-style-type: none"> - 8-channel, variable volume - 0.50 to 10uL volume range - 0.01uL increment - 100 to 240 V +/-10 %, 50 to 60 Hz Electronic air-cushion pipette - multi-function rocker with up-is-up (aspiration) and down-is-down (dispensing) - rechargeable battery for up to 8 hours of use and work can continue while charging via power socket - pre-programmed and individual adjustment to external conditions (e.g. geographic height, liquids with high density, elongated tips) - autoclavable lower parts for easy decontamination - Display language: English <p>Operating Mode: Automatic Dispensing. Automatic dispensing of liquid in equal partial volumes at user defined time intervals with lock mechanism</p> <p>Inclusion:</p> <ul style="list-style-type: none"> - Compatible battery - Compatible Tips - One (1) time Preventive Maintenance and calibration with certificate 1 year after delivery - Calibration Certification upon delivery <p>Warranty:</p>	

	<ol style="list-style-type: none"> 1. Parts and Components: Two (2) years 2. Services: Two (2) years 	
8.	<p>One (1) unit Multichannel Pipettor</p> <ul style="list-style-type: none"> - Multi-channel micropipette - autoclavable (121 Degrees Celsius, 20min); - enhanced UV resistance; - with lock mechanism for volume setting; - durable body; with ejector; with nozzle for easy tip fitting; with revolving handle (360C); - suitable for 96 well-plate; - 4-digit volume <p>12 channel (0.5-10ul): Volume range:.5-10uL; Increments: .01uL; Accuracy: 10uL (+2.0%); Precision (+1.0%);</p> <p>With lock mechanism</p> <p>Inclusions:</p> <ul style="list-style-type: none"> - One (1) time Preventive Maintenance and calibration with certificate 1 year after delivery - Calibration Certification upon delivery <p>Warranty:</p> <ol style="list-style-type: none"> 1. Parts and Components: One (1) year 2. Services: Two (2) years 	
9.	<p>One (1) unit Sonicator</p> <p>Ultrasonic cleaner Capacity: 20-30L Adjustable Frequency: from 45- 80 KHz, Time range: 1-480 min Heating Temp: 0-80C, Ultrasonic Power: 800W Tank size: 500 x 300 x 180 mm with gross weight of 104 kg</p> <p>Inclusion:</p> <ul style="list-style-type: none"> - with compatible AVR anti-surge - One (1) time Preventive Maintenance <p>Warranty:</p> <ol style="list-style-type: none"> 1. Parts and Components: Two (2) years 2. Services: Two (2) years 	
10.	<p>Two (2) units Electronic Laboratory Aspirator</p>	

	<ul style="list-style-type: none"> - Quiet, maintenance-free, pump inside a sturdy yet compact base, - fully adjustable vacuum pressure with display - 1x 1 liter polycarbonate collection bottles (autoclavable, break resistant) - antibacterial/hydrophobic filter; silicone tubing, handheld vacuum pipette, 2 pipette cone adapters - For removing gases or liquids by suction to obtain desired biological samples (ex. DNA/ RNA pellets); - Useful in fast removal of supernatant during DNA/ RNA extraction, and protein precipitation; <p>Electrical Requirement: 240 V Motor Requirements:</p> <ul style="list-style-type: none"> - One (1) time Preventive Maintenance and calibration with certificate 1 year after delivery - Calibration Certification upon delivery <p>Warranty:</p> <ol style="list-style-type: none"> 1. Parts and Components: Two (2) years 2. Services: Two (2) years 	
11.	<p>One (1) unit Laboratory Shaker</p> <p>Max load capacity: 2.5kg; with platform; Speed range: 50-800rpm; with detachable rack for 15ml and 50 ml conical tubes, flask and beaker; Speed Display: LCD Motion: circular / orbital</p> <p>Inclusion:</p> <ul style="list-style-type: none"> - One (1) time Preventive Maintenance and calibration with certificate 1 year after delivery - Calibration Certification upon delivery <p>Warranty:</p> <ol style="list-style-type: none"> 1. Parts and Components: Two (2) years 2. Services: Two (2) years 	
12.	<p>One (1) unit Shaking Incubator</p> <p>Temperature range 2.5cu Ft /71 liters Chamber Volume, Ambient +5° to 80 degree Celsius Temperature Range ambient Motion: circular/Orbital</p>	

	<p>Chamber Dimensions (WxDxH): 44.2 x 39.6 x 40.6cm</p> <p>External Dimensions (WxDxH): 57.4 x 54.4 x 63.5cm</p> <p>Inclusions: With 1pc - Shaking platform pre-drilled for flask clamps 9pcs - Flask clamp, 250ml; 5pcs - Flask clamp, 500ml; 4pcs - Flask clamp, 1000ml; 1pc - Automatic Voltage Regulator (AVR), 1500watts 5KVA, 1 pc - Uninterrupted Power Supply (UPS), 3KVA</p> <ul style="list-style-type: none"> - One-time basic training on operations and troubleshooting - One (1) time Preventive Maintenance and calibration with certificate 1 year after delivery - Calibration Certification upon delivery <p>Warranty:</p> <ol style="list-style-type: none"> 1. Parts and Components: Two (2) years 2. Services: Two (2) years <p>Other requirements:</p> <ol style="list-style-type: none"> 1. The company must be at least 5 years in the business 2. The brand must be at least 5 years in the market (supported by proof of sales) 	
13.	<p>One (1) unit Portable Dehumidifier</p> <p>Tank Capacity: 5.1L Frequency: 50hz – 60hz Applying area: 35-80 cubic meter Humidity removal capacity: 30L/24h Refrigerant: R134A Power Supply: Standard 220V</p> <ul style="list-style-type: none"> - With active carbon filter - LED Display, indicates humidity - With drain for continuous drainage function <p>Warranty: One (1) year</p>	
<p>Other Requirements:</p> <ol style="list-style-type: none"> 1. <i>Soft copy of Section VII. Technical Specifications to be emailed one day after the opening of bids or included in the bidding documents saved in CD or USB.</i> 		