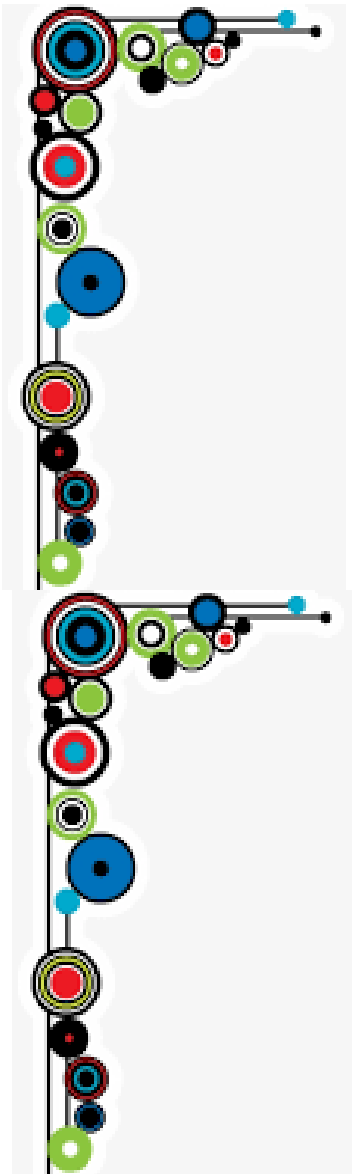


**IB 2023-23- PROCUREMENT OF VARIOUS LABORATORY  
EQUIPMENT FOR THE COLLEGE OF NATURAL SCIENCES**



***SECTION 7 –  
TECHNICAL  
SPECIFICATIONS***

## TECHNICAL SPECIFICATIONS

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Item	Specifications	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>
<b>1</b>	<b>1-unit Water Bath</b> <b>Specifications:</b> capacity: at least 22L; temperature range 5 °C - 99 °C; Digital PID controller; PT -100 sensor; with timer; stainless steel plate interior, steel plate with powder coating; safety measures should include over temperature limit, over current glass fuse; AC 220 V, 60Hz; with compatible AVR; 1 year warranty of parts and services	
<b>2</b>	<b>3-units Hotplate with Magnetic Stirrer</b> - <b>Specifications:</b> Temperature range: 40 to 350 degrees Celsius; timer = 1 min to 100 hours; temperature accuracy +/- 1 degree Celsius; display accuracy 1 degree Celsius; speed range = 200 - 1600 rpm; dimension (L x W x H) at least 20 x 22 x 11 cm (8 x 9 x 4.5"); Max stir bar	

	length = 50 mm; with AVR and 1 year warranty on parts and service.	
<b>3</b>	<p><b>1-unit Fume Hood</b></p> <p><b>Specifications:</b> Dimension (L x W x H) at least 47" x 28 " x 94" with 19 mm Fire Resistant Black Solid Epoxy Resin Worksurface/top ; Powder coated chemical and corrosion resistant G.I.#18 exterior casing and fiberglass interior casing with fiberglass adjusting baffles and front panel; Vertical sliding door/adjustable glass 6 mm thick on PVC sash; Vapor and Explosion proof with Fluorescent bulb; Switch and 2-2 gang universal electric outlet 220 VAC; 1 control switch with illuminator for blower and light - 220 VAC with blower and light; Laboratory grade gooseneck water faucet and gas picket with turret base; Acid resistant epoxy coated fiberglass/polypropylene cup sink complete with traps and accessories; 1 steel base cabinet #18 G.I. powder coated corrosion/chemical resistant, Blower 1hp with Nalgene impeller fan and housing with 80-100 fpm performance; 1 set ducting, epoxy coated fiberglass "8" inlet diameter, 8 feet long with epoxy coated fiberglass elbow, coupling and weather cap. *Comes complete with ACTIVE DRY CARBON SCRUBBER SYSTEM, includes ducting, electrical and accessories installation. Warranty on Parts and Services, Compatible AVR and training on equipment use. ANSI approved or ISO 17025 approved.</p>	
<b>4</b>	<p><b>1-unit Centrifuge</b></p> <p><b>Specifications:</b> Max. speed - 16000 rpm; with a Relative Centrifugal Force of 213300 x g; Max. capacity - 10 x 20 ml; Dimension (L x W x H) 24 x 39 x 24 cm; Voltage (V/Hz)-AC 220 V,60 HZ with a maximum power consumption of 280 watts; Rotor: acceleration time of at least 15 secs.; Deceleration time of at least 15 secs.; Timer: 10 secs to 10 hours with continuous run function; Soft brake function of 10 ramps; Noise level &lt;51 dB (A); with compatible AVR.</p>	

5	<b>1-unit Two Door Acid Cabinet with 2 Shelves</b> - <b>Specifications:</b> Dimensions: of at least 65 " H x 34 " W x 34 " D (exterior) and 60.5 " H x 30.8 " W x 30.3" D (Interior); constructed in 1.2 mm thick mild steel; with welded seams; Steel "L" Type lever handle and two steel locking rods top and bottom (supplied with 2 keys); With fully welded shelf trays (adjustable on 25mm pitches) to retain minor spills; Integral, non- removable, spillage sump in the base of the cabinet/bin (50-100 mm dependent upon cabinet size; Epoxy polyester powder coated in yellow. With relevant warning labels displayed in the door	
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*I have hereby certified to comply with the above Technical Specifications*

\_\_\_\_\_  
*Name of Bidder over Printed Name*

\_\_\_\_\_  
*Designation*

\_\_\_\_\_  
*Date*