



SUPPLEMENTAL/BID BULLETIN NO. 1

Date: August 5, 2024
Title: IB-2024-07-18 SUPPLY AND DELIVERY OF VARIOUS LABORATORY SUPPLIES & EQUIPMENT
Reference No.: 11071497

This bulletin is being issued to revise/clarify certain portions of the bidding documents. This shall form an integral part of the bidding document for the above-mentioned procurement project.

GENERAL QUERIES	AMMENDMENTS/ CLARIFICATIONS
<p>LOT 1, ITEM NO. 1: Microbiological Incubator</p> <ul style="list-style-type: none"> Regarding the biological incubator, are you firm on the temperature range requirement? We can offer a range of 20°C to 70°C, with a partially larger capacity and 10% humidity. For the microbiological incubator, is it acceptable if the temperature range is lower, but with the same capacity? We can offer a range of 10°C to 60°C. Regarding the humidity range, which is specified as 45-95% RH, can we offer a range of 10-90% RH instead? Is this acceptable? Additionally, instead of ±5% stability, can we provide ±10% stability? 	<ul style="list-style-type: none"> The capacity must be at least 50 liters; therefore, we will specify "at least 50L" in the capacity section. The minimum temperature must not be lower than the stipulated 20°C and must fall within the specified range. If the humidity can be adjusted or controlled, that would be acceptable.
<p>LOT 3, ITEM NO. 5 & 24: Potassium ferrocyanide ACS</p> <ul style="list-style-type: none"> These chemicals require a DENR CCO Registration Certificate prior to ordering. May I ask if this registration is already available with the Procuring Entity? If we are awarded the contract, delivery could be delayed since the items cannot be delivered without this registration. 	<ul style="list-style-type: none"> Currently, the Procuring Entity does not have a DENR CCO Registration Certificate available. However, rest assured that this certificate will be provided to the winning bidder once it has been secured by the Procuring Entity.
<p>Delivery Period</p> <ul style="list-style-type: none"> Regarding the delivery time, some items are sourced from abroad. Could we request an extension of the delivery period? 	<ul style="list-style-type: none"> As a general rule, the supplier must deliver the goods or perform the services within the period prescribed by the Procuring Entity, as specified in the contract. If delays are likely to be incurred, the supplier must notify the Procuring Entity in writing. It must state therein the cause/s and duration of the expected delay. The Procuring may grant the time extension, at its discretion, as long as it is based on meritorious grounds, with or without liquidated damages.





GENERAL QUERIES	AMMENDMENTS/ CLARIFICATIONS
	<p>Based on the relevant provisions of the Generic Procurement Manual, each extension should not exceed the initial delivery period as stated in the original contract.</p> <p>If the Supplier fails to satisfactorily deliver any or all the Goods and/or to perform the Services within the period(s) specified in the contract inclusive of duly authorized time extensions if any, the Procuring Entity shall, without prejudice to its other remedies under the contract and under applicable laws, deduct from the contract price, as liquidated damages, the applicable rate of one-tenth (1/10) of one (1) percent of the cost of the unperformed portion for every day of delay until actual delivery or performance.</p> <p>However, under Section 68 of the IRR of RA 9184, once the cumulative amount of liquidated damages reaches ten percent (10%) of the contract amount, the Procuring Entity is mandated to rescind the contract.</p>

All statements and formats referring to this clause should be amended/corrected accordingly.

For guidance and information of all concerned.

For further information, please refer to:

(SGD) VINCENT B. CABANTOC

Head, BAC Secretariat

CP No. 0953-355-7046 - TM

Email Add: evsu.bacsecretariat@evsu.edu.ph

Noted:






(SGD) BENEDICTO T. MILITANTE, JR., Ph.D., J.D.

Vice President for Administration & Finance







Chairperson, Bids and Awards Committee





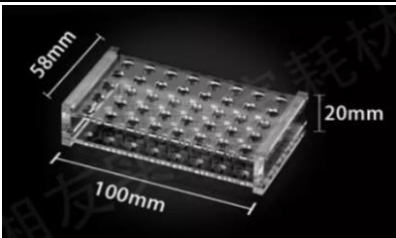



Technical Specifications


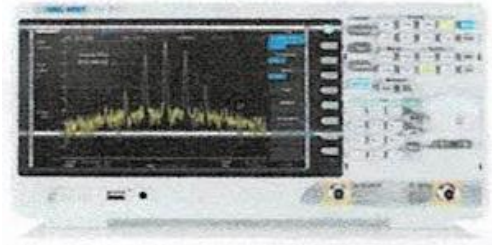

SUPPLY AND DELIVERY OF VARIOUS LABORATORY SUPPLIES & EQUIPMENT				
Item Number	Description			Statement of Compliance Comply/ Not Comply
P.R. No. 05-0422-24 CAS (CHEMISTRY LABORATORY TOOLS, GLASSWARES AND SUPPLIES)				
1	1	<p>Microbiological Incubator</p> <ul style="list-style-type: none"> • Temperature Range: Adjustable from ambient/room temperature (20°C) to 80°C • Humidity Control: Can control humidity between 45- 95% RH with stability of: ± 5% • Capacity: at least 50L • Safety Features: Overheat protection, alarm systems, and door locks for secure operation. • Construction: Durable stainless steel or corrosion- resistant materials for long-term use. 		1 unit
	2	<p>Fume Hood</p> <ul style="list-style-type: none"> • Size: Standard dimensions suitable for accommodating at least two people working side by side, typically ranging from 1.2 meters to 1.5 meters in width, 0.8 meters to 1 meter in depth, and 2 meters to 2.5 meters in height. • Ventilation System: High-performance exhaust fan with adjustable airflow control. • Sash Design: Vertical sliding or hinged sash for easy access and visibility. • Material: Chemical-resistant construction, typically made of stainless steel or epoxy-coated steel. • Safety Features: Airflow monitors, sash sensors, and emergency shut-off controls. 		1 unit
	3	<p>Test Tube, 10mL</p> <ul style="list-style-type: none"> • Material: High-quality borosilicate glass • Design: Flat bottom, with without graduation mark. • Compatibility: Suitable for use with common laboratory equipment such as centrifuges and spectrophotometers. 		50 pcs
	4	<p>Screw-cap Test Tube, 10mL</p> <ul style="list-style-type: none"> • Material: Polypropylene construction for chemical resistance and durability. • Closure: Secure screw cap or snap cap to prevent sample leakage during centrifugation. • Compatibility: Compatible with microcentrifuges and thermal cyclers for PCR applications. • Graduation Marks: Clear and accurate volume markings for precise sample measurement. • Sterility: DNase or RNase free 		50 pcs
	5	<p>Microcentrifuge tubes, 1.5mL</p> <ul style="list-style-type: none"> • Material: Polypropylene construction for chemical resistance and durability. • Closure: Secure screw cap or snap cap to prevent sample leakage during centrifugation. • Compatibility: Compatible with microcentrifuges and thermal cyclers for PCR applications. • Graduation Marks: Clear and accurate volume markings for precise sample measurement. • Sterility: DNase or RNase free 		1 box




6	<p>PCR Tubes, 0.2 mL</p> <ul style="list-style-type: none"> Material: High-quality polypropylene for thermal stability and compatibility with PCR cycling. Closure: Tight-fitting, flat caps to prevent sample evaporation and contamination. Optics: Clear tubes for optical detection of PCR products, suitable for real-time PCR. Compatibility: Designed to fit standard PCR thermal cyclers and heat blocks. Sterility: DNase or RNase free 	1	box	
7	<p>Microcentrifuge Tube Rack</p> <ul style="list-style-type: none"> Material: Durable plastic for stability and longevity. Molded in handles provide a secure grip for transport. Matte side panel accepts tape or direct labeling Capacity: Configured to accommodate multiple microcentrifuge tubes in standard 80-hole format Design: Modular or stackable design for space-saving storage and convenient use. Compatibility: Compatible with standard microcentrifuge tubes and PCR tubes. Size: 22.7 x 6.7 x 2.7cm (8-15/16 x 2-5/8 x 1-1/16") Laboratory conditions: Can be used for freezer storage down to -80°C (-112°F) and autoclavable at 121°C 	2	pcs	
8	<p>PCR Tube Rack</p> <ul style="list-style-type: none"> Capacity: Configured to accommodate multiple PCR tubes in standard 96-well format Material: Heat-resistant plastic or polypropylene construction for compatibility with thermal cyclers. Lid: Transparent or opaque lid for protection against contamination and sample loss. Grid Configuration: Clearly marked grid layout for easy sample identification and handling. Laboratory conditions: Can be used for freezer storage down to -80°C (-112°F) and autoclavable at 121°C 	2	box	
9	<p>Erlenmeyer Flask, 1000 mL</p> <ul style="list-style-type: none"> Material: High-quality borosilicate glass for chemical resistance and thermal stability. Neck Design: Narrow neck with a standard or wide-mouth opening for easy pouring and sampling. Graduation Marks: Clearly marked volume graduations for accurate measurement of liquid volumes. Compatibility: Suitable for use with various laboratory equipment such as shakers and stirrers. Sterilization: Autoclavable for convenient sterilization and reuse in microbiological applications. 	20	pcs	

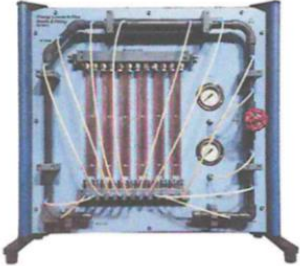
10		<p>Erlenmeyer Flask, 500 mL</p> <ul style="list-style-type: none"> Material: High-quality borosilicate glass for chemical resistance and thermal stability. Neck Design: Narrow neck with a standard or wide-mouth opening for easy pouring and sampling. Graduation Marks: Clearly marked volume graduations for accurate measurement of liquid volumes. Compatibility: Suitable for use with various laboratory equipment such as shakers and stirrers. Sterilization: Autoclavable for convenient sterilization and reuse in microbiological applications. 		20	pcs	
11		<p>Erlenmeyer Flask, 250 mL</p> <ul style="list-style-type: none"> Material: High-quality borosilicate glass for chemical resistance and thermal stability. Neck Design: Narrow neck with a standard or wide-mouth opening for easy pouring and sampling. Graduation Marks: Clearly marked volume graduations for accurate measurement of liquid volumes. Compatibility: Suitable for use with various laboratory equipment such as shakers and stirrers. Sterilization: Autoclavable for convenient sterilization and reuse in microbiological applications. 		20	pcs	
12		<p>Erlenmeyer Flask, 100 mL</p> <ul style="list-style-type: none"> Material: High-quality borosilicate glass for chemical resistance and thermal stability. Neck Design: Narrow neck with a standard or wide-mouth opening for easy pouring and sampling. Graduation Marks: Clearly marked volume graduations for accurate measurement of liquid volumes. Compatibility: Suitable for use with various laboratory equipment such as shakers and stirrers. Sterilization: Autoclavable for convenient sterilization and reuse in microbiological applications. 		20	box	
P.R. No. 05-0428-24 CAS (HPLC ACCESSORIES AND SUPPLIES)						
1		<p>HPLC Column Accessories</p> <p>a) Inertsil ODS-3 (C18) 4.6mm x 5cm x 250mm b) (C18) 4.6, x 5mm x 150 mm c) Guard Column d) Nonsterile Nylon Syringe Filters, Pore: 0,45 (um), Housing Diameter 13 (mm), 100/pk e) UPS (3kVa)</p>		1	set	
2		<p>Preventive Maintenance (PM) Kit for HPLC</p> <p>a) Plunger seal (2pcs) b) Assy, Line Filter (1pc) c) Element sus Filter (5pcs) d) Needle Seal Assy (1pc)</p>		1	set	
3		<p>HPLC Grade Solvents</p> <p>a) Acetonitrile (2bottles) (2.5L each) b) Methanol (3bottles) (2.5L each) c) Trifluoroacetic Acid (1 bottle) (2.5L each)</p>		1	set	

P.R. No. 05-0423-24 COE (CHEMICAL REAGENTS AND SUPPLIES)			
3	1	Copper electrode, 10 pcs/pack Electrode used for voltaic cell experiment	3 bottles
	2	Magnesium ribbon, 1 roll/pack Electrode used for voltaic cell experiment	3 pack
	3	Magnesium nitrate hexahydrate ACS, 500g/bottle Chemical reagent used for analytical/Organic Chemistry laboratory experiments	1 bottles
	4	Tin chloride, reagent grade, 500g/bottle Chemical reagent used for Analytical/organic Chemistry laboratory experiments	1 bottles
	5	Potassium ferrocyanide ACS, 100g/bottle Chemical reagent used for Analytical/organic Chemistry laboratory experiments	2 bottles
	6	Phenolphthalein, 500g/bottle Chemical used for Analytical/organic Chemistry laboratory experiments	1 bottles
	7	EDTA Disodium salt dehydrate ACS, 500g, powder form Chemical reagent used for Analytical/organic Chemistry laboratory experiments	1 bottles
	8	Eriochrome Black T (EBT), 25g/bottle Chemical reagent used for Analytical/organic Chemistry laboratory experiments	2 bottles
	9	Sulfuric acid, 2.5L/bottle Chemical reagent used for Analytical/organic Chemistry laboratory experiments	1 bottles
	10	Adipic acid, A.R., 500g/bottle Chemical used for analytical/organic Chemistry laboratory experiments	1 bottles
	11	Benzaldehyde, 2L/bottle Electrode used for analytical/organic Chemistry laboratory experiments	1 bottles
	12	Zinc electrode, 10pcs/pack Electrode used for voltaic cell experiment	3 pack
	13	Aluminum electrode, 10pcs/pack Electrode used for voltaic cell experiment	3 pack
	14	Tollen's reagent, 500mL/bottle Chemical used for analytical/organic Chemistry laboratory experiments	1 bottles
	15	Schiff's reagent, 500mL/bottle Chemical reagent used for analytical/organic Chemistry laboratory experiments	1 bottles
	16	Benedict's solution, 50mL/bottle Chemical used for analytical/organic Chemistry laboratory experiments	1 bottles
	17	HCl (hydrochloric acid) C.P., 2.5L/bottle Chemical reagent used for analytical/organic Chemistry laboratory experiments	1 bottles
	18	Sodium hydroxide, A.R., 500g/bottle Chemical reagent used for analytical/organic Chemistry laboratory experiments	1 bottles

19	Silver electrode, 10pcs/pack Electrode used for voltaic cell experiment		3	bottles
20	Copper electrode, 10pcs/pack Electrode used for voltaic cell experiment		3	bottles
21	Magnesium ribbon, 1 roll/pack Electrode used for voltaic cell experiment		3	pack
22	Magnesium nitrate hexahydrate ACS, 500g/bottle Chemical reagent used for analytical/organic Chemistry laboratory experiments		1	bottles
23	Tin chloride, reagent grade, 500g/bottle Chemical reagent used for analytical/organic Chemistry laboratory experiments		1	bottles
24	Potassium ferrocyanide ACS, 100g/bottle Chemical reagent used for analytical/organic Chemistry laboratory experiments		2	bottles
25	Tapered cork, different sizes, 30pcs/pack 		3	pack
26	Rubber stopper, top diameter 20mm, 24mm, bottom diameter 16mm, 18mm 20pcs/pack 		3	pack
27	Test tube rack Plexiglass Test tube acrylic rack organic glass stand laboratory 		3	unit
28	Laboratory wash bottle, 500mL plastic 		20	unit
29	Quantitative filter paper, 100pcs/box Quantitative filter paper, ashless, 125mm circles, 100 circles per box, Cat. No. 1442-125. Whatman ashless Grade 42 quantitative filter papers are suitable for a wide range of critical analytical filtration procedures for quantitative analysis 		5	box
30	Borosilicate petri dish with lid 100mm borosilicate glass, standard petri dish, 100mm diameter 		20	pcs

P.R. No. 05-0404-24 COE (ELECTRONIC LABORATORY EQUIPMENT)				
4	1	<p>BENCH TYPE PROGRAMMABLE POWER SUPPLY</p> <ul style="list-style-type: none"> • Programmable DC power supply, 3 independently controlled and isolated outputs • Two 32 V/3.2 A, one 2.5 V/3.3 V/5V/3.2Ax1, total 220 W 5-digit voltage/4-digit current display, minimum resolution: 1 mV/1 mA (SPD3303X) Timing function provides programmed output steps 4.3-inch true color TFT-LCD 480x272 display • 3 types of output modes: Independent, series (60 V max), and parallel (6.4 A max) 	4	Units
	2	<p>SPECTRUM ANALYZER</p> <ul style="list-style-type: none"> • frequency range: 150kHz ~ 3GHz, auto set function noise floor: \cong-100dBm, RBW range: 30kHz, 100 kHz, 300kHz, 1MHz, ACPR/ CHPW/ OCBW measurement 3 traces in different colors split window function, limit line function remote control software, presentation material for training courses, support interface: USB device/host, RS-232C 	4	Units
	3	<p>FUNCTION/ARBITRARY WAVEFORM GENERATOR</p> <ul style="list-style-type: none"> – dual-channel, with bandwidth up to 60 MHz, and amplitude up to 20 Vpp-150 MSa/s sampling rate, 14-bit vertical resolution, and 16 kpts waveform length innovative easy pulse technology, capable of generating lower-jitter pulse waveforms, brings a wide range and extreme high precision in pulse width and rise/fall time adjustment – special circuit for square wave function, can generate square waves up to 60MHz with jitter less than 300ps+0.05 ppm of period- plenty of analog and digital modulation types: AM, DSB-AM, FM, PM, FSK, ASK, PSK and PWM- sweep and burst functions harmonics generator function- waveform combining function- high precision frequency counter- standard interfaces: USB host, USB device (USBTMC), LAN (VXI-11)-4.3” TFT-LCD display 	3	Units

P.R. No. 05-0424-24 COE (CHEMICAL LABORATORY APPARATUS AND EQUIPMENT)													
1	<p>Electric Bunsen with Controller Features:</p> <ul style="list-style-type: none"> • Conical shaped heating element directs radiant heat to the top cavity • Top cowl deflects heat away from your hand • Air circulation from the vented housing keeps the base cool enough to hold during operation • Burner consumes less of power • Recommended controller is the MC5 • 2 neon indicators: “Power On” white neon light & “Bunsen Heater On” amber neon light. • Regulator control knob can be turned clockwise to increase power. • A rod support clamp is provided at the rear of each heating controller to take a standard 12.5mm (1/2”) diameter rod.  <table border="1" data-bbox="397 842 1055 1016"> <thead> <tr> <th>Electric Bunsen</th> <th>Specifications</th> </tr> </thead> <tbody> <tr> <td>Max Temp.</td> <td>800°C</td> </tr> <tr> <td>Material</td> <td>Stainless Steel</td> </tr> <tr> <td>Dimensions (d x h)</td> <td>120mm x 177mm</td> </tr> <tr> <td>Power Supply, Controller</td> <td>230V 50/60Hz, 480W</td> </tr> </tbody> </table> <p>Inclusions:</p> <ul style="list-style-type: none"> • 1 unit – MC5 Controller 	Electric Bunsen	Specifications	Max Temp.	800°C	Material	Stainless Steel	Dimensions (d x h)	120mm x 177mm	Power Supply, Controller	230V 50/60Hz, 480W	1	Unit
Electric Bunsen	Specifications												
Max Temp.	800°C												
Material	Stainless Steel												
Dimensions (d x h)	120mm x 177mm												
Power Supply, Controller	230V 50/60Hz, 480W												
5	<p>FILTER PRESS</p> <p>TECHNICAL SPECIFICATIONS:</p> <ul style="list-style-type: none"> • Framework of AISI 304 stainless steel with castors • Feeding tank of AISI 304 stainless steel, with 100 l capacity, equipped with stirring system driven by submersible pump Tank of AISI 304 stainless steel, with 100 l capacity, to collect the filtered water Screw feeding pump with speed variator Variable area flowmeter for the filtered liquid Filter press of AISI 304 stainless steel with transparent Plexiglas frames to display the process IP55 switchboard, complying with EC conformity mark, including synoptic diagram and ELCBPiping and valves of AISI 304 and AISI 316 stainless steel • Emergency pushbutton Power supply: 230 Vac 50 Hz single-phase - 1,5 kVA (Other voltage and frequency on request) • Dimensions: 1500 x 670 x 1600 mm • Weight: 150 kg <p><i>*With portable Turbidimeter</i></p> 	2	1	Unit									
3	<p>PIPE FRICTION APPARATUS MODEL</p> <ul style="list-style-type: none"> • This apparatus is designed to allow the detailed study of the fluid friction head losses which occur when an incompressible fluid flows through pipes, bends, valves and pipe flow metering devices. Friction head losses in straight pipes of different sizes can be investigated over a range of Reynolds’ numbers from 103 to nearly 5000, there by covering the laminar, transitional and turbulent flow regimes in 	3	1	Unit									

		<p>smooth pipes. In addition, an artificially roughened pipe is supplied which, at the higher Reynolds’ numbers, shows a clear departure from the typical smooth bore pipe characteristics. Pipe friction is one of the classic laboratory experiments and has always found a place in the practical teaching of fluid mechanics.</p> <ul style="list-style-type: none"> • Experiments: <ul style="list-style-type: none"> - Laminar to turbulent flow regimes - Energy Losses in Pipes fittings and Bends - Rugosity - Flow Measurement using venture meter - Flow measurement using Orifice Plate - Use of Pitot Static Tube, Use of Manometers • Manuals: <p>The unit is supplied with Operating and Experiment Manuals in English giving full descriptions of the unit, summary of theory, experimental procedures and typical experimental results.</p> 			
4		<p>ENERGY LOSSES IN PIPE APPARATUS</p> <ul style="list-style-type: none"> • The experimental set-up can be used on its own or with the Hydraulic bench. A supply of water is all that is required for operation. The unit is suitable for measuring pipe friction losses for laminar and turbulent flows. The experimental set-up is clearly laid out on a training panel. For investigations on laminar flow and for turbulent flow, the supply is provided via the Basic Hydraulics Bench directly (or the lab water mains). The water flows through a pipe section; the flow is adjusted using reducing valves. The connection to the required measuring device is made via pressure tappings  <p>Technical Data Measuring range Water Tube Manometer - up to 12 tubes, multi-tube 300mm of WC, Pressure Gauge 2pc, Parts, Pipe diameter: 17mm (inner), outer diameter: 21mm, Enlargement pipe diameter: 26mm (inner), outer diameter: 32mm Contraction diameter: 17mm, 45° elbow, 90° elbow Sharp bend, small bend, Contraction and enlargement, 12 tube manometer bank</p>	1	Unit	