



Republic of the Philippines  
**Benguet State University**  
La Trinidad, Benguet  
Tel/Fax No. 661-1839  
Email: [procurement@bsu.edu.ph](mailto:procurement@bsu.edu.ph)

## **Bids and Awards Committee (BAC)**

### **Goods and Services**

---

#### **SUPPLEMENTAL/ BID BULLETIN** **Addendum No. 2023-07**

PROJECT NUMBER: **IB 2023-18**  
PROJECT TITLE: **SUPPLY, DELIVERY AND INSTALLATION OF VARIOUS LABORATORY EQUIPMENT**

This Supplemental/bid bulletin is being issued to advise prospective bidders to clarify items in the Bidding Documents in response to the clarification from prospective bidders during the Pre-Bid Conference held on June 1, 2023 at 2:00 P.M at the Rogelio D. Colting (RDC) Hall. The Bidding Documents and all papers previously issued in relation to the aforesaid project are hereby amended as follows:

#### **A. Amended Section 7 - Technical Specifications**

**1. 2 units Bottle Top Dispenser**

- feature: with recirculation valve. Volume range: **at least 2.5-25 ml, adjustable in 0.5ml increments**. Fittings: (GL 32-33, GL 38 & S 40). Other features suitable for an amazingly broad range of applications, particularly for many acids, saline solutions and organic solvents.

**2. 1 unit ELISA Reader**

- Technical specifications – as is

**3. 1-unit Double Water Distiller**

- Description: Glass condenser and horizontal flasks; no metallic contact; replaceable silica sheathed heaters and all threaded connector. Technical Specifications: Output: 1.5 liters/ hour; 4.0 liters/ conductivity, **Conductivity  $\mu\text{Scm}$ - at least 0.8-1.2. Temperature of distillate at least 30-40°C**; Pyrogen content; pyrogen free cooling; Includes water input and output hose and hose connector; electric plug and compatible AVR. Water supply 60 liters/hour (approximate) 90 liters/ hour (approx.) electricity supply 220V; 60 Hz. Power requirement 3.0 Kw; 6Kw. Electricity supply: 220-240V, 50-60 Hz. Power requirement: 3.0kW; 6kW; Includes standard warranty on parts and services.

**4. 1-unit Vertical Laminar Flow**

- Specifications: Vertical; External size: at least 802 x615x1575mm; Internal size: at least 800 x 600 x 540mm; Work Surface Height: at least 660mm; LED Display; Airflow velocity: Average of 0.3 - 0.5m/s; Air Speed: Adjustable; Material: Main body: Cold rolled steel with anti -bacteria powder coating; Work Table: 304 stainless steel; Pre-Filter: Polyester fiber; Washable; Hepa Filter: at least 99.999% Efficiency at 0.3  $\mu\text{m}$ ; Noise: at least <60dB; Front Window: Manual, 5mm toughened glass, **Anti-UV**; **Max. Opening: at least 490mm**; Fluorescent Lamp: 350W-1; UV Lamp: Emission of at least 253.7 nanometers; Consumption: at least 350W, Waterproof Socket: No. 3; Power Supply: 220V  $\pm 10\%$ , 50/60Hz; Standard Accessory: Fluorescent Lamp: 1 (30W), UV Lamp: 2; Water and Gas Tap, Stand: Universal Wheel with leveling Feet; Plus Extra

Fluorescent Lamp: 1 (30W), UV Lamp: 2 (30W) and Pre and HEPA-Filter plus 1 year service warranty; Gross Weight: at least 120 kg; Package size: (WxDxH) at least 960 x 770 x 1800 mm. Includes compatible AVR.

**5. 1-unit Vortex Mixer**

- Industrial Vortex Mixer, Specifications: Control, **Digital Speed Range: at least 500 rpm - 2500 rpm**, Orbit at least 4.9 mm, Duty Rating Intermittent, Working Environment: 39°F-104°F, 20%-85%, relative humidity, non- condensing, Power 220V, 60Hz, **Power Consumption at least 135W, Dimensions (WxLxH) at least 123x210x165mm, Net Weight at least 4.4kg**, Standard Feature detachable cuphead and 7.6cm accessory platforms for beaker, flask, test tubes. Rubber test tube holder for 50 ml tubes and compliance to product safety.

**6. 1 unit Emergency Shower and Eye Wash**

- Materials: stainless steel; Main piper fittings adopt stainless steel materialized oil resistance, acid proof, alkali prevention and saline solution performances. Push handle and pedal switches are at your option for flexible control of switch and easy operation; the flushing bulb controlled by draw bar of the sprayer can be opened in a second and kept open with no need for hand holding. Living water supplies. It complies with regulations of ANSI/SES on emergency eye wash station and showering equipment- ANSI 2358-2012. The inlet of eyewash station the inlet of vertical eye wash station is 1450mm from the ground. The outlet of eye wash station is 210mm from the ground. Main pipe fittings: 304 series of stainless steel, Water basin: spraying header, cross bar, vertical. Shower head: **at least 240mm (5.4)** 304 series of stainless steel. The shower head and the **spraying header are at least 210 cm from the ground**. Spraying header plate: dimension: **at least 255x75 (diameter, height/mm)**. Valve: 1-inch female thread, stainless steel, full flow continuous opening ball valve. Inflow of sprayer: 1-inch male thread. Flow rate of sprayer: up to 75.6L/min under 1.4 kgf/cm<sup>2</sup> pressure (delivers 300 gallons of water in 15min). Spray head: 304 series of stainless steel, with dust cover; green ABS plastic eye/face wash nozzle, with self-closing nozzle protection cover. The spraying header is 100 cm from the ground. Inlet of eye wash station: 1/2-inch female thread. Flow rate of eye wash station: It is up to 11.4L/min under 2.1 kgf/cm<sup>2</sup> pressure (delivers 45 gallons of water in 15min). **Weight: at least 9.5 kg & Package: at least 30x83x35 (height, length, width/cm).**

**7. 1 -set Centrifuge**

- **Size: 6\*1.5ml**; 4000 rpm max speed; Max RCF: 1350xg; **Rotor: 6\*1.5ml**; Noise: ≤45Db; Power Supply: AC 220V±10%, 50/60 Hz. External Size: at least 175\*156\*125 (W\*D\*H) mm; Net/Gross weight (kg): 1.3/3. Portable; 6 holes.

**8. 1 - set Water Bath**

- Digital Thermostatic Water Bath; Material: 304 stainless steel, aluminum alloy heating; Power: 600W Plug; **Temperature Control Range: at least 5°C to 100 °C; Size: Approx. at least 300x160x120mm / at least 11.8x6.3x4.7in**

**B. Delivery Period:**

- From 45 calendar days to **90 Calendar days**

This Supplemental Bid Bulletin No. 2023-05 shall form part of the Bidding Documents. Any provision in the Bidding Documents and other documents in consistent herewith is hereby amended, modified and superseded accordingly. Other provisions shall remain in full force and effect.

  
**REYNANTE B. BASCO**

Chairperson  
Bids and Awards Committee (Goods and Services)