



SUPPLEMENTAL/BID BULLETIN No. 02

**SUPPLY, DELIVERY, INSTALLATION, TESTING & COMMISSIONING OF
VARIOUS LABORATORY FACILITIES FOR FOOD TECHNOLOGY PROGRAM
(PB 2022-G&-13)**

This Addendum No. 02 is issued to modify or amend items in the Bid Documents. This shall form an integral part of the Bid Documents.

Technical Specifications	
Reference	Amendment
<p>Item #3 Pre-fabricated Laboratory Table – 10 seater, acid resistant</p> <p>Specifications: With 1 sink 32 mm thick acid resistant Top; epoxy coated marine plywood</p>  <p>10 seaters, Dimension: at least 36000mm Lx 1000mm W x 850mm H, solvent-acid resistant to be assembled on site, free shipping and 1-year warranty</p>	<p>Item #3 Pre-fabricated Laboratory Table – 10 seater, acid resistant</p> <p>Specifications: With 1 sink 32 mm thick acid resistant Top; epoxy coated marine plywood</p>  <p>10 seaters, Dimension: at least 3,600mm Lx 1000mm W x 850mm H, solvent-acid resistant to be assembled on site, free shipping and 1-year warranty</p>
<p>Item # 16 Laboratory Shakers with Temperature Control</p> <p>Specifications: small capacity shaker with temperature control Soft shaking mode, stable and reliable operation. Audio and visual alarm for over-temperature, PID controller. Adopting unique design to ensure the tank cover can open and close steadily.</p> 	<p>Item # 16 Laboratory Shakers with Temperature Control</p> <p>Specifications: small capacity shaker with temperature control Soft shaking mode, stable and reliable operation. Audio and visual alarm for over-temperature, PID controller. Adopting unique design to ensure the tank cover can open and close steadily.</p> 



<p>With the function of memory and recovery, avoid the cumbersome operation. Large LCD Display with back light can display both the setting parameters and the measured parameters. Big toughened glass window, can observe the working condition completely.</p> <p>CAPACITY: Universal spring clamp TEMP RANGE: RT+5~60°C TEMP PRECISION: 0.1°C</p>	<p>With the function of memory and recovery, avoid the cumbersome operation. Large LCD Display with back light can display both the setting parameters and the measured parameters. Big toughened glass window, can observe the working condition completely.</p> <p>CAPACITY: Universal spring clamp TEMP RANGE: RT+5~60°C TEMP PRECISION: 0.1°C Suitable for Erlenmeyer Flasks and Beakers (250-500ml) Speed: normal-standard</p>
<p>Item #18 Ultrasonic Homogenizer</p> <p>Specifications:</p> <ol style="list-style-type: none"> 1. With new software central microcomputer centralized control; 2. It adopts 7-inch TFT touch screen display 3. Ultrasonic power step with 1% continuous adjustable. 4. With pulse and continuous operation, and with test function 5. Ultrasonic time, gap time 	<p>Item #18 Ultrasonic Homogenizer</p> <p>Specifications:</p> <ol style="list-style-type: none"> 1. With new software central microcomputer centralized control; 2. It adopts 7-inch TFT touch screen display 3. Ultrasonic power step with 1% continuous adjustable. 4. With pulse and continuous operation, and with test function 5. Ultrasonic time, gap time <p>Frequency: 20-25 KHz Processing Capacity: 0.1-300mL Sample Temp. Protection: 0-100°C Security System: Self-diagnosis function, automatic error correction, overload, over temperature protection, etc.</p> 



<p>Item #19 Rotary Evaporator</p> <p>Specifications:</p> <p>Rotary Evaporator, 10 RV with vacuum pump, 220 input, vertical condenser glass, powerful 1300 Watt heater capable of delivering temperatures from room temperature to 180 °C., Solvent-resistant PTFE seals Supplied complete with a Woulff bottle to protect the vacuum pump against solvent condensation. Integrated vacuum controller, USB interface and graphical display Precision controlled via the RS 232 interface for remote PC operation Color graphic display Automatic ventilation and integrated cooling water monitoring Distillation parameters programmable and stored for standard distillations</p> 	<p>Item #19 Rotary Evaporator</p> <p>Specifications:</p> <p>Rotary Evaporator, 10 RV with vacuum pump, 220 input, vertical condenser glass, powerful 1300 Watt heater capable of delivering temperatures from room temperature to 180 °C., Solvent-resistant PTFE seals Supplied complete with a Woulff bottle to protect the vacuum pump against solvent condensation. Integrated vacuum controller, USB interface and graphical display Precision controlled via the RS 232 interface for remote PC operation Color graphic display Automatic ventilation and integrated cooling water monitoring Distillation parameters programmable and stored for standard distillations</p>  <p>With built-in cooler</p>
<p>Item #20 Refrigerated Centrifuge</p> <p>Specifications:</p> <p>Refrigerated benchtop centrifuge. With a wide range of fixed-angle and swing-out rotors, this all-purpose centrifuge can hold PCR tubes, test tubes, round-bottom tubes, culture tubes and microtiter plates. This extensive range is rounded out by a haematocrit rotor. The Sigma 2-16KL provides extraordinary capacity with 4 x 100 ml in a swing-out rotor or 6 x 50 ml in a fixed-angle rotor. The Sigma 2-16KL has a high-performance, precisely adjustable refrigeration system with a temperature range of – 10°C to +40°C. The Rapid Temp quick cooling function allows the centrifuge chamber and accessories to be pre-cooled to a defined temperature. This ensures optimal protection of specimens against heating.</p> 	<p>Item #20 Refrigerated Centrifuge</p> <p>Specifications:</p> <p>Refrigerated benchtop centrifuge. With a wide range of fixed-angle and swing-out rotors, this all-purpose centrifuge can hold PCR tubes, test tubes, round-bottom tubes, culture tubes and microtiter plates. This extensive range is rounded out by a haematocrit rotor. The Sigma 2-16KL provides extraordinary capacity with 4 x 100 ml in a swing-out rotor or 6 x 50 ml in a fixed-angle rotor. The Sigma 2-16KL has a high-performance, precisely adjustable refrigeration system with a temperature range of – 10°C to +40°C. The Rapid Temp quick cooling function allows the centrifuge chamber and accessories to be pre-cooled to a defined temperature. This ensures optimal protection of specimens against heating.</p>  <p>Speed: normal to standard With digital Temp control display</p>



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Excellence | Service | Leadership and Good Governance | Innovation | Social Responsibility | Integrity | Professionalism | Spirituality

<p>Item #23 Pipettor with Pipettes 6</p>  <p>Specifications: pipetter, manual, single channel pipetter 1 ml capacity and 10 ml capacity, autoclavable with pipette tips included</p>	<p>Item #23 Pipettor with Pipettes 6</p>  <p>Specifications: pipetter, manual, single channel pipetter 1 ml capacity (3 pcs) and 10 ml capacity (3 pcs), autoclavable with pipette tips included</p>
<p>NOTE: Pictures of the equipment are just SAMPLE PHOTOS; please disregard the brand.</p>	
<p>Required Delivery Completion</p>	
<p>sixty (60) calendar days</p>	<p>One hundred twenty (120) calendar days</p>

For guidance and information of all concerned.

Sgd.
MABEL R. CALVA, MPA
 BAC Chairperson
 Date: **14 November 2022**

