



Republic of the Philippines
AGUSAN DEL SUR STATE COLLEGE OF AGRICULTURE AND TECHNOLOGY
Bunawan, Agusan del Sur

Office of the Bids and Awards Committee

Supplemental Bid Bulletin No. 01

Project: Acquisition of Biology, Chemistry, Environmental Science and Physics Laboratory Equipment

This Supplemental Bid Bulletin is issued to all prospective bidders to clarify, modify and/or amend items in the Bidding Documents as discussed and agreed during the Pre-bid Conference held on October 28, 2024 at 3:00 o'clock in the afternoon at the Board Room, ASSCAT, San Teodoro, Bunawan, Agusan del Sur.

A. Technical Specifications:

Original	Amendments
1. Four (4) Units - Centripetal Force Apparatus <i>Specifications:</i> -Material: Metal -Length: Adjustable (around 20cm to 40cm) -Masses: Detachable (ranging from 50g to 500g) and must be calibrated (with calibration certificate) -Force Sensor: Mechanical or Digital -Motor: Electric motor with adjustable speed control -Base: A wide base of at least 40cm × 40cm dimension -Radius range: 5cm - 30cm <i>Inclusives:</i> - with User's manual - with Laboratory Activity Manual	1. Four (4) Units - Centripetal Force Apparatus <i>Specifications:</i> -Material: Metal -Length: Adjustable (around 20cm to 40cm) -Masses: Detachable (ranging from 50g to 500g) and must be calibrated (with calibration certificate) -Force Sensor: Digital -Motor: Electric motor with adjustable speed control -Base: A wide base of at least 40cm × 40cm dimension -Radius range: 5cm - 30cm <i>Inclusives:</i> - with User's manual - with Laboratory Activity Manual
5. One (1) Unit - Electrophoresis with InstaView Complete System with Blue LED Illuminator <i>Specifications:</i> -Output voltage: 35V, 50V, 100V, Max power: 40W, -Timer: 0-99 mins or continuous, -Safety: Magnetic lid interlock, -Max buffer volume: Approx 230 ml (200-225 ml),	5. One (1) Unit - Electrophoresis with Complete System with Blue LED Illuminator <i>Specifications:</i> -Output voltage: Min of 50V to maximum, Max power: 40W, -Timer: 0-99 mins or continuous, -Safety: Magnetic interlock, -Max buffer volume: Approx 230 ml (200-225 ml),



Republic of the Philippines
AGUSAN DEL SUR STATE COLLEGE OF AGRICULTURE AND TECHNOLOGY
 Bunawan, Agusan del Sur

Office of the Bids and Awards Committee

-Electrodes: Platinum wire, Gel capacity: One 10.5 x 10 cm or one 10.5 x 6 cm; 0.5 cm thick,
 -Transilluminator: Blue LED, 465 nm,
 -Viewing dimensions: 10.5 x 10.5 cm,
 -Approximate Dimensions: (WxDxH) 255 x 210 x 140 mm,
 -Weight: Approx 1.04 kg,
 -Electrical: 230V, 50Hz

Inclusive of gel tank with orange filter, direct connect power supply, casting stand, two trays for short gels, one tray for long gels, two double-sided combs of 12/22 teeth, mini SmartBlue transilluminator and imaging enclosure, free installation and aftersales service.

6. One (1) Unit - Horizontal Electrophoresis System

Specifications:

-Approx. Dimensions (WxLxH) 8.7"x4.9"x3.5" (220x125x90mm),
 -Gel Dimensions (WxL) Approx 3.9"x2.8" (100x70mm); 3.9"x3.9" (100x100mm),
 -Maximum Samples 50 for 3.9"x2.8" (100x70mm) Tray (2x25 sample combs) 100 for 3.9"x3.9" (100x100mm) Tray (4x25 sample combs),
 -Buffer Volume 0.08gal (300 ml),
 -Construction Injection molded construction; Durable, leak proof environment for complete, Set includes 1 x Electrophoresis tank & lid, 1 x ME10-UV7 (10x7cm UV tray), 1 x ME10-UV10 (10x10cm UV tray),
 2 x ME10-16-1 (16 sample combs, 1mm thick), 1 x ME10-UVDAM (UV tray dams, 2pcs), 1 x ME10-LG (Loading guides (Set)), 1 x Black & red electrophoresis cable, Inclusive of Mini-300 Power Supply

Unit Details:

Specifications: Output Voltage / Inc.

-Electrodes: Platinum wire, Gel capacity: One 10.5 x 10 cm or one 10.5 x 6 cm; 0.5 cm thick,
 -Transilluminator: Blue LED, 465 nm,
 -Viewing dimensions: 10.5 x 10.5 cm,
 -Approximate Dimensions: (WxDxH) 255 x 210 x 140 mm,
 -Weight: Approx 1.04 kg,
 -Electrical: 230V, 50Hz

Inclusive of gel tank with orange filter, direct connect power supply, casting stand, two trays for short gels, one tray for long gels, two double-sided combs of 12/22 teeth, mini Smart Blue transilluminator and imaging enclosure, free installation and aftersales service.

6. One (1) Unit - Horizontal Electrophoresis System

Specifications:

-Approx. Dimensions (WxLxH) minimum (8.7"x4.9"x3.5" (220x125x90mm) - (11.81"x 6.50"x 2.17") (300x165x55 mm)
 -Gel Dimensions (WxL) Approx 3.9"x2.8" (100x70mm); 3.9"x3.9" (100x100mm),
 -Maximum Samples 50 for 3.9"x2.8" (100x70mm) Tray (2x25 sample combs) 100 for 3.9"x3.9" (100x100mm) Tray (4x25 sample combs),
 -Buffer Volume 0.08gal (300 ml),
 -Construction Injection molded construction; Durable, leak proof environment for complete, Set includes 1 x Electrophoresis tank & lid, (16 sample combs, 1mm thick), (UV tray dams, 2pcs), (Loading guides (Set)), 1 x Black & red electrophoresis cable, Inclusive of 220V-300V Power Supply

Unit Details:

Specifications: Output Voltage / Inc.

Step 1: 10-300V/ 1V,
 Step 2: 10 - 300V / 1V, Output Current / Inc. Step 1:10 - 400mA / 1mA, Step 2: 10 - 400mA / 1mA,
 -Max. Wattage 60W, Output Type Constant voltage



Republic of the Philippines
AGUSAN DEL SUR STATE COLLEGE OF AGRICULTURE AND TECHNOLOGY
 Bunawan, Agusan del Sur

Office of the Bids and Awards Committee

Step 1: 10-300V/ 1V,
 Step 2: 10 - 300V / 1V, Output Current / Inc. Step
 1:10 - 400mA / 1mA, Step 2: 10 - 400mA / 1mA,
 -Max. Wattage 60W, Output Type Constant voltage or
 constant current , Control Microprocessor
 controller,
 -Terminal Pairs 2 pairs,
 -Timer 999 (min) with alarm/ Continuous (set=0),

Safety Device

No load detection; shrouded plugs and sockets,
 -Dimensions Approx. 5.5"x7.5"x3.3" (140 x 191 x
 84mm),
 -Material Polycarbonate housing and aluminum base
 plates,
 -Weight Approx. 2.2lb (1 kg), Rated Voltage 100 - 240
 V~, 50-60Hz, 2A ,
 -Programming 2-STEP Program, Presetting values, free
 installation and aftersales service.

7. One (1) Unit - Analytical Balance

Specifications:

-Capacity: At least 220g,
 -Minimum display: 0.1 mg,
 -Repeatability: ≤0.1 mg, Linearity: ±0.2 mg,
 -Stabilization time: approx. 3 secs, adjustable by R:S
 ratio,
 -Temp coef sensitivity: ±2 ppm/°C (10°C to 30°C), Pan
 size: 91 mm dia, -
 -Main body dimensions: Approx. 213 x 356 x 338 mm,
 -Weight: At least 6 kg,
 -Electrical: 12V, 1A, free installation and aftersales
 service.

8. One (1) Unit - Biosafety Cabinet Class II

Specifications:

-A2 Features 220 g x 0.1 mg

or constant current , Control Microprocessor
 controller,
 -Terminal Pairs 2 pairs,
 -Timer 999 (min) with alarm/ Continuous (set=0),

Safety Device

No load detection; shrouded plugs and sockets,
 -Dimensions Approx. 5.5"x7.5"x3.3" (140 x 191 x 84mm),
 -Material Polycarbonate housing and aluminum base
 plates,
 -Weight Approx. 2.2lb (1 kg), Rated Voltage 100 - 240
 V~, 50-60Hz, 2A ,
 -Programming 2-STEP Program, Presetting values,
 free installation and aftersales service.

7. One (1) Unit - Analytical Balance

Specifications:

-Capacity: At least 220g,
 -Minimum display: 0.1 mg,
 -Repeatability: ≤0.1 mg, Linearity: ±0.2 mg,
 -Stabilization time: approx. 3 secs, adjustable by R:S ratio,
 -Temp coef sensitivity: ±2 ppm/°C (10°C to 30°C), Pan
 size: 91 mm-152.4mm diameter,
 -Main body dimensions: Approx. 213 x 356 x 338 mm,
 -Weight: At least 6 kg,
 -Electrical: 12V, 1A, free installation and aftersales
 service.

8. One (1) Unit - Biosafety Cabinet Class II

Specifications:

Feature:



Republic of the Philippines
AGUSAN DEL SUR STATE COLLEGE OF AGRICULTURE AND TECHNOLOGY
 Bunawan, Agusan del Sur

Office of the Bids and Awards Committee

Feature: -Internal size: 940*600*660 mm, -External size: 1100*750*2250 mm, -Tested opening: Safety height 200 mm, -Max opening: 420 mm, -Work surface height: 750 mm, -Airflow: A2, 70% air recirculation, 30% air exhaust, recirculation, 30% air exhaust, -Inflow velocity: 0.53±0.025 m/s, -Down flow velocity: 0.33±0.025 m/s, -Noise: EN12469 ≤ 58 dB / NSF49 ≤ 61 dB, Filter/s: Two, 99.9995% efficient at 0.12 um. Filter life indicator, -UV lamp: 30W*1; UV timer, UV life indicator, emission of 253.7, -Illumination: 12W*2, ≥ 1000 lux, -Power consumption: 760W, -Work zone material: Stainless steel 304, -Exterior material: Cold-rolled steel with anti-bacteria powder coating, -Alarms: Filter replacement, front window at unsafe height, abnormal airflow velocity, -Standard accessories: 2 waterproof sockets (total load 500W), LED lamp, UV lamp*2, base stand, remote control, foot switch, drain valve, -Optional accessories: Water and gas tap, electric height adjustable base stand, -Electricals: AC220V±10%, 50/60Hz; 110V±10%, 60Hz -	-Internal size: 940*600*660 mm, -External size: 1100*750*2250 mm, -Tested opening: Safety height 200 mm, -Max opening: 420 mm, -Work surface height: minimum of 750 mm with optional base stand. -Airflow: A2, 70% air recirculation, 30% air exhaust, recirculation, 30% air exhaust, -Inflow velocity: 0.53±0.025 m/s, -Down flow velocity: 0.33±0.025 m/s, -Noise: EN12469 ≤ 58 dB / NSF49 ≤ 61 dB, Filter/s: Two, 99.9995% efficient at 0.12 um with High Filter pressure alarm, -UV lamp: 30W*1; UV timer, UV life indicator, emission of 253.7, -Illumination: 12W*2, ≥ 1000 lux, -Power consumption: 760W, -Work zone material: Stainless steel 304, -Exterior material: Cold-rolled steel with anti-bacteria powder coating, -Alarms: Filter replacement, front window at unsafe height, abnormal airflow velocity, -Standard accessories: 2 waterproof sockets (total load 500W), LED lamp, UV lamp*2, base stand, remote control, foot switch, drain valve, -Optional accessories: Water and gas tap, electric height adjustable base stand,
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Republic of the Philippines
AGUSAN DEL SUR STATE COLLEGE OF AGRICULTURE AND TECHNOLOGY
 Bunawan, Agusan del Sur

Office of the Bids and Awards Committee

-Inclusive of the following: On-site Installation AVR 2000VA 9. One (1) Unit - Plate Shaker with rubber mat platform (9.5"X8"), 100-240V (US PLUG) <i>Specifications:</i> -Speed Range 50 to 300 rpm -Speed Increment 10 rpm, Orbit 19mm -Timer 1 min. to 99 hr or continuous -Platform Size 9.5 x 8 in. / 24 x 20 cm -Load Capacity 4 x 1L or 9 lbs (4kg) - Ambient Operating Temp +4°C to +65°C -Dimensions (in): Approx. 13.1 x 11.7 x 4.7 -Dimensions (cm): Approx. 33.3 x 29.8 x 12 -Weight 12lbs (5.5kg), -Electrical Universal Voltage: 100 to 240V 50-60Hz; 250W. Free installation and aftersales service. 11. Two (2) Units - Magnetic Stirrer <i>Specifications:</i> Features of BS-2H/3H: *Cast Aluminum with surface spraying plate. *Max. Temp.: 380°C, max. speed: 2000rpm. *Heating and stirring can proceed simultaneously. *Heating power and stirring speed is steplessly adjusted.	-Electricals: AC220V±10%, 50/60Hz; 110V±10%, 60Hz - -Inclusive of the following: On-site Installation AVR 2000VA 9. One (1) Unit - Plate Shaker with rubber mat platform (9.5"X8"), 100-240V (US PLUG) <i>Specifications:</i> -Speed Range 50 to 300 rpm -Speed Increment 10 rpm, Orbit 19mm -Timer 1 min. to 99 hr or continuous -Platform Size 9.5 x 8 in. / 24 x 20 cm -Load Capacity 4 x 1L or 9 lbs (4kg) Ambient Operating Temp +4°C to +65°C -Dimensions (in): Approx. 13.1 x 11.7 x 4.7 -Dimensions (cm): Approx. 33.3 x 29.8 x 12 -Weight 12lbs - 66.139 (5.5kg- 30kg), -Electrical Universal Voltage: 100 to 240V 50-60Hz; 250W. Free installation and aftersales service. 11. Two (2) Units - Magnetic Stirrer <i>Specifications:</i> *Cast Aluminum with surface spraying plate. *Min. Temp.: 380°C, max. speed: 2000rpm. *Heating and stirring can proceed simultaneously. *Heating power and stirring speed is steplessly adjusted.
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Republic of the Philippines
AGUSAN DEL SUR STATE COLLEGE OF AGRICULTURE AND TECHNOLOGY
 Bunawan, Agusan del Sur

Office of the Bids and Awards Committee

12. One (1) Unit - Mechanical Shaker <i>Specifications:</i> Mechanical Shaker (Orbital Type Shaker) Orbital diameter: At least 20mm Max. load capacity (with platform) 2kg Motor type: DC motor Motor input power: 20W Motor output power: 16W Speed range: 40-200rpm Speed display: LED Timer display: LED Time settings range: 1min-19h and 59min Voltage: 100-240V, 50/60Hz Power: 20W Permissible ambient temperature and humidity: 5-40°C, 80%RH Work plate Dimension [W×D]: Approx. 268×268mm Dimension[W×D×H]: Approx. 294×348×123mm	12. One (1) Unit - Mechanical Shaker <i>Specifications:</i> Mechanical Shaker (Orbital Type Shaker) Orbital diameter: At least 20mm Max. load capacity (with platform) 2kg Motor type: DC motor Motor input power: At least 20W Motor output power: At least 16W Speed range: 40-200rpm Speed display: LED Timer display: LED Time settings range: 1min-19h and 59min Voltage: 100-240V, 50/60Hz Power: 20W Permissible ambient temperature and humidity: 5-40°C, 80%RH Work plate Dimension [W×D]: Approx. 268×268mm Dimension[W×D×H]: Approx. 294×348×123mm
13. One (1) Unit - Dessicator <i>Specifications:</i> SP Bel-Art Secador Vertical Profile Clear 4.0 Auto-Desiccator Cabinet with Blue End-Caps; 120V, 1.9 cu. ft. (F42074-1116) Form Factor: Freestanding	13. One (1) Unit - Dessicator <i>Specifications:</i> Form Factor: Freestanding Color: Clear, with Blue End Caps Material: Polyester, Plastic



Republic of the Philippines
AGUSAN DEL SUR STATE COLLEGE OF AGRICULTURE AND TECHNOLOGY
Bunawan, Agusan del Sur

Office of the Bids and Awards Committee

Color: Clear, with Blue End Caps	Item Weight: At least 0.01 Pounds
Material: Polyester, Plastic	Desiccant regeneration and dry air circulation are
Item Weight: At least 0.01 Pounds	preset Brings RH down to about 25 percent in
Desiccant regeneration and dry air circulation are preset	about 8 hours
Brings RH down to about 25 percent in about 8 hours	2 latches and loops that can be locked or used with a tamper-evident seal
2 latches and loops that can be locked or used with a tamper-evident seal	Cabinets fabricated with co-polyester plastic resistant to chemicals, stains, and fine cracks
Cabinets fabricated with co-polyester plastic resistant to chemicals, stains, and fine cracks	Interchangeably stackable up to 3 units high; internal volume: 1.87 cu ft; holds: At least 70 cans
Interchangeably stackable up to 3 units high; internal volume: 1.87 cu ft; holds: At least 70 cans	

For guidance and information of all concerned.


RUTH S. DESAMPARO, MPA
BAC Chairperson