



Republic of the Philippines  
**COTABATO STATE UNIVERSITY**  
**BIDS AND AWARDS COMMITTEE**  
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## SUPPLEMENTAL BID BULLETIN No. 1

### SUPPLY AND DELIVERY OF MICROBIOLOGY LABORATORY EQUIPMENT AND FACILITIES

After considering the queries, clarifications, recommendations and suggestions, the Bids and Awards Committee hereby amend the Technical Specifications.

All terms, conditions and instructions to bidders specified in the Bidding Documents inconsistent with this Bid Bulletin are hereby superseded and modified accordingly. Please use the following forms attached in this Supplemental Bid Bulletin.

Issued this 22<sup>nd</sup> day of March 2024.

(SGD) RADZATA A. ABDULGANI, PhD, JD  
BAC – Chairperson

No	QTY	Unit	Description	Statement of COMPLIANCE
<b>LOT 1 – BACTERIOLOGY MATERIALS</b>				
1	100	Pcs	Plastic Conical Graduated Centrifuge Tube with cover centrifuge tubes <b>50mL</b> , bulk, pre-sterile, 20x25 pcs	
2	100	Pcs	Plastic Conical Graduated Centrifuge Tube with cover centrifuge tubes <b>15mL</b> , carton rack, pre-sterile, 20x25 pcs	
3	1	Bag	Eppendorf Tube Centrifuge Tube, 1.5ml 500pcs/bag	
4	2	Units	Pipettor Capp pipette, variable vol. <b>100-1000 µl</b> ,	
5	2	Units	Pipettor Capp pipette, variable vol. <b>10-100 µl</b>	
6	2	Units	Pipettor Capp pipette, variable vol. <b>5-50 µl</b>	
7	2	Units	Pipettor Capp pipette, variable vol. <b>0.5-10 µl</b>	
8	1	Bag	Pipettes Tips with container and cover, <b>1000 µl</b> , rack packed, Filtered Tips, 100pcs/rack with 1 bag 1000ul universal tip 500pcs/bag	
9	1	Bag	Pipettes Tips with container and cover, <b>100 µl</b> , rack packed, Filtered Tips, 96pcs/rack with 1 bag 100ul universal tip 1000pcs/bag	
10	1	Bag	Pipettes Tips with container and cover, <b>10 µl</b> , rack packed, Filtered Tips, 96pcs/rack with 1 bag 10ul universal tip 1000pcs/bag	
11	2	Box	Gram staining kit (Crystal Violet, Grams Iodine, Ethyl Alcohol, Safranin Solution) Gram-Hucker Quick Action, 4X250 mL	
12	1	Bottle	MacConkey Agar (in powder form) 500g	
13	1	Bottle	Mueller Hinton Agar (in powder form) 500g	
14	1	Bottle	Nutrient Agar (in powder form) 500g	
15	1	Bottle	Mannitol Salt Agar (in powder form) 500g	



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16	1	Bottle	Triple Sugar Iron Agar (in powder form) 500g	
17	1	Bottle	XLD Agar (in powder form) 500g	
18	1	Bottle	Simmons Citrate Agar (in powder form) 500g	
19	1	Bottle	Sabouraud Dextrose Agar (in powder form) 500g	
20	1	Bottle	Salmonella Shigella Agar (in powder form) 500g	
21	1	Bottle	VRBL Agar (in powder form) 500g	
22	1	Bottle	Thioglycollate broth (Fluid medium USP) 500g	
23	1	Bottle	Brucella Agar (in powder form) 500g	
24	2	Pack	Regular Disposable Plates (500/pack 12 ABD-DISH-100)	
25	2	Pack	Disposable Inoculating Loop (100pcs/pack)	
26	2	Cart	Ampicillin 1 ug, 50 discs/cart	
27	2	Cart	Ciprofloxacin 1 ug, 50 disc/cart	
28	2	Cart	Erythromycin 10ug 50 discs/cart	
29	2	Cart	Amoxicillin 30ug, 50disc/cart	
<b>LOT 2 – GENERAL MICROBIOLOGY MATERIALS</b>				
1	10	Slides	Prepared Parasitic Slide (STH slides, Protozoans slide, Cestodes, Nematodes, Malaria)	
2	10	Slides	Prepared Bacterial Slide (Stap Vibrio, Salmonella Shigella, E.coli, Bacillus - All gram positive, All gram Negative)	
3	25	Pack	Culture tube, with black screw cap borosilicate glass, test tube glass, <b>13x100mm</b> 100pcs/pack	
4	25	Pack	Culture tube, with black screw cap borosilicate glass, test tube glass, <b>15x100mm</b> 100pcs/pack	
5	25	Pack	Culture tube, with black screw cap borosilicate glass, test tube glass, <b>16x100mm</b> 100pcs/pack	
6	25	Pack	Culture tube, with black screw cap borosilicate glass, test tube glass, <b>16x125mm</b> 100pcs/pack	
7	25	Pack	Culture tube, with black screw cap borosilicate glass, test tube glass, <b>15x150mm</b> 100pcs/pack	
8	2	Units	Laboratory Scales Analytical Balance Digital Microbalance Precision Electronic Balance Scale Resolution 0.0001g Specifications: 1. Electromagnetic force compensation technology 2. Aluminum alloy die cast base and stainless steel pan 3. Super bright LED display with backlight 4. RS232 Interface 5. Clear glass windshield supplied as standard 6. Overload protection, bubble level adjustment, under hook 7. Full capacity subtraction 8. Multi weighing units conversation: g/mg/ct/oz 9. Internal calibration for choice 10. Weighing, piece counting, percentage weighing 11. Universal power adapter supplied as standard 12. Certificated calibration weight supplied as standard	
9	10	Units	Round Media Storage Bottle with GL45 Screw Cap - Borosilicate Glass Bottles with Caps - Premium Scientific Glassware for Labs, Classrooms or Home Use Glass Container, 250mL, 2/Pk	



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No	QTY	Unit	Description	Statement of COMPLIANCE
10	10	Units	Glass Stirring Rod for Lab	
11	1	Units	Bacteria Testing Equipment (Manual Bacterial Colony Counter with magnifying glass) Adapted For Any Size Plate: Multiple adapters are available 60 mm, 70 mm, 80 mm, 90 mm, 100 mm, 120 mm, and 150 mm	
12	10	Box	Frosted Slide	
13	10	Box	Glass Slide	
14	10	Box	Wooden Applicator Stick	
15	30	Pcs	Inoculating Loop	
16	10	Pcs	Alcohol Lamp	
17	5	Units	Staining Rack With 2 fixing clips and 2 handles, each extendible by 115 mm. For tilting and fixing in a horizontal position	
18	10	Units	Coplin Staining Jar - Glass holds 5 slides with glass cover	
19	2	Bag	Disposable Plastic Droppers Transfer Pipettes Material: Low Density Polyethylene Color: Transparent; Size: 18cm; Diameter: 1.2cm / 0.47"; Capacity: 3ml 500pcs/bag	
20	100	Pcs	Disposable Sharp and tips container Paper Board Dimension: 26 x 21 x 18 cm; Weight: 0.4 kg; Volume: 5L and 10L; Color: Yellow	
21	5	Pack	Autoclave bag, Sterilization bags - Polypropylene Bags, 12 X 24 250/pack	
22	3	Units	Universal Lancing device and Lancets	
23	2	Box	Giemsa Stain with buffer (kit)	
24	1	Unit	Water Bath Specification: Water bath Analog 10L • Excellent temperature control and thermometer temperature readout. • Large bath opening lets you immerse samples conveniently. • Inside stainless steel tank. • Immersion pump circulation. Capacity: 10 Liters Temperature setting: Analog Temperature readout: Thermometer Temperature control: Analog IC Temperature sensor :NTC thermistors Stability : ±0.5°C Working temperature range: Ambient 5°C ~100°C Power watts: 1200W Optional accessory :Flat lid, gable cover, external equipment, test tube rack	
25	5	Bottle	Saline Solution 500mL	
26	2	Bottle	Aceto Carmine Solution 500mL	
27	2	Bottle	Lugols Solution 500mL	
28	5	Bottle	10 % Formalin 500mL	
29	2	Bottle	Diethyl Ether Reagent 500mL	



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No	QTY	Unit	Description	Statement of COMPLIANCE
30	2	Bottle	Methyl Alcohol/Methanol 500mL	
31	1	Pack	Filter Paper Qualitative Filter Papers, Grade 1: 11 um, 90 mm, Paper (Pack of 100)	
32	1	Gal	Hydrogen Peroxide 3% H <sub>2</sub> O <sub>2</sub>	
33	2	Bottles	KOH Solutions Potassium Hydroxide 10%, 500mL	
34	2	Gal	Sodium Hypochlorite solution Liquid Bleach Sodium Hypochlorite 6% Solution (3.6L)	
35	1	Bottle	Crystal Form Para-phenylenediamine solution N,N-Dimethyl-p-phenylenediamine	
36	1	Bottle	Tryptone Broth (Tryptone Water)	
37	2	Boxes	Occult Blood Kit	
<b>LOT 3 – ECOLOGY EQUIPMENT AND MATERIALS</b>				
1	6	Pcs	Soil pH Tester Digital tester, 3in1 Soil Moisture, Sunlight, pH meter Tester for Soil Measurement Garden Tool	
2	4	Pcs	Caliper (0-150mm/ 6 inches Metric Imperial Digital Depth Vernier Caliper, Micrometer Stainless Steel, Electric Digital Depth Gauge)	
3	5	Pair	Gardening Claw with Claws Material Specification: Nylon, Plastic, Latex, Wrist Length, Waterproof, flexible and Breathable Wrist Cover	
4	4	Set	Plant Presses Plant Specimen: Leaf and Flower Press Wooden Set	
5	6	Pcs	Pruner (Heavy Duty Pruners, Stainless)	
6	1	Set	Secchi Disk Specification Secchi Disk: Length of line: 20m; Disc Diameter: 20cm; Handle Length: 20cm; Weight: 865g; Metal Disk	
7	2	Set	Digital pH/EC/TDS Meter Kits	
8	1	Set	Digital Wind Speed Meter Anemometer Thermo-Hydrometer, temperature and Humidity Meter Lux, Light Meter Decibels Noise Sound level Meter	
9	1	Unit	CO <sub>2</sub> Meter CO <sub>2</sub> Meter AZ-0004 Indoor Air Quality CO <sub>2</sub> Meter, temperature and Relative Humidity	
10	4	Unit	Rain Gauge Measurement: 42HX6.25WX2.55D inches. Glass and Detachable Rain Container, Metal Stick, with waterproof thermometer.	
11	2	Units	Sling Psychrometer Convenient, lightweight, and portable. Two replaceable laboratory type, liquid filled, non-mercury thermometer mounted on a flanged back. A swivel handle and chain facilitate whirling. Protective carrying case with retaining flap. Slide rule included 30°F to 110°F in 1° divisions.	
12	2	Units	Compasses	



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No	QTY	Unit	Description	Statement of COMPLIANCE
			Magnetic compass for hiking, Mountaineering Compass with Map Ruler Outdoor Travel Camping Hiking Walking	
13	2	Units	Stopwatch Digital Stop Watch Plastic cover, dust damp proof chrome plated. Start/Stop/Reset/Function	
14	3	Set	Shovel (Set) Garden Hand Shovel Transplant Aluminum Alloy Planting Tools with Rubber Handle for Gardening and Cultivating (3 types)	
15	4	Pcs	Insect Nets Handle-Stainless steel and Polyester Insect and Butterfly Net, 50cm Net Depth, Handle Extends To 59 Inches	
16	5	Units	Vernier Caliper Sputar Vernier Caliper, 6" Stainless Steel Non-Digital Calipers, 0-6Inch/0-150mm Manual Micrometer Caliper,	
17	5	Pcs	Mist Net 38/36mm (1 1/2") x 70/2 or 110/2 denier/ply, 4 shelves, Polyester, Height (2.6m), Length (10-12m),	
18	3	Pcs	Soil Sampler/Soil Corer Stainless steel Soil Sampler, T-shape style, Garden Sampling Tool	
19	5	Pcs	Plankton Nets Net must be at least 20um to 250um, Nylon precision Mesh Bag, 50mm Screw on filter, 12" diameter metal ring, Frame material (Stainless steel), towing line length (7m), Filter size (50mm)	
20	5	Unit	Binocular Objective Dia. (Size Lens 50mm or more), Magnification (12x or more), Field view (1000m), Eye Relief (above 15mm), With Diopter Adjustment, With Strap/Harness and Case, High Resolution Lens	
21	10	Unit	Head Light 500000LMxHP100, 1500M long range, Powerful Led Headlamp, Zoomable Outdoor Headlight 18650xHP90.2, Flashlight Torch Hunt, 100watts	
22	2	Box	Indoplas Nitril Examination Gloves Medical-Grade Exam Gloves, Snthetic Nitril Rubber/Latex Gloves, 100pcs/box, small size	
23	2	Box	Indoplas Nitril Examination Gloves Medical-Grade Exam Gloves, Snthetic Nitril Rubber/Latex Gloves, 100pcs/box, medium size	
24	2	Box	Indoplas Nitril Examination Gloves Medical-Grade Exam Gloves, Snthetic Nitril Rubber/Latex Gloves, 100pcs/box, large size	
25	1	Box	Laboratory Film Flexible, thermoplastic, rolled, waterproof sheet interwound with paper. Supplied in 0.127mm (0.005") thickness	
<b>LOT 4 – LABORATORY MISCELLANEOUS EQUIPMENT</b>				
1	1	Unit	<b>Microwave Oven</b>	



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No	QTY	Unit	Description	Statement of COMPLIANCE
			Microwave Oven 25 Liters 10 power levels Defrost setting Glass Turntable Pull out handle	
2	3	Unit	<b>Inverter Split-Type Air Conditioner 2.0 hp</b> With Remote Inclusive of Installation	
3	1	Unit	<b>LABORATORY REFRIGERATOR</b> 2 door External Size(W*D*H) mm- 1220*630*1885 Capacity - 656L Temp. Range - 2°C~8°C Temp. Accuracy - 0.1°C Control System - Microprocessor Control, Large Screen LED Display Alarm - "Audible and visual alarm for: High and low temperature, Power failure alarm, Sensor failure, Door ajar" Refrigeration Type - Forced air refrigeration system Refrigerant - R134a, CFC Free Condenser & Evaporator - Bundy tube condenser Defrost - Auto defrost Door - Glass door with electric heating Construction Structure - Unibody Design & Mono-assembly foaming (Rigid polyurethane insulation material) "Internal Material" - Cold-rolled steel coated with anti-bacteria powder "External Material" - Cold-rolled steel coated with anti-bacteria powder Shelves - 10 pcs Door - Glass door with electric heating Consumption - 560W Power Supply - AC110/220V±10%, 50/60Hz Standard Accessory - LED Lamp, shelves, door keys, USB port, probe access port(BPR-5V588 & BPR-5V1000) Optional Accessory - Temperature recorder Package Size(W*D*H)mm - 1340*750*2100 Gross weight - 248kg	
			<b>LOT 5 – LABORATORY SPECIALIZED EQUIPMENT</b>	
1	11	Units	<b>BINOCULAR STEREO MICROSCOPE</b> Edublu, 2x/4x Revolving Objective, 20x/40x Magnification A pair of secured WF10x/20mm wide field eyepieces with eyecups; Binocular head with 45° inclined tubes. Diopter adjustment on one tube. Interpupillary distance adjustable between 55 and 75 mm; Dual 2x/4x revolving objective, 20x/40x magnification; Field of view 10 mm and 5 mm; Working distance 60 mm. Maximum object height 97 mm; Pillar stand with rack and pinion focusing. Supplied with black/white stage plate, transparent plate and 2 object clamps; Incident and transmitted 1W LED cordless illumination with rechargeable batteries and external main adapter. Both illumination intensities can be adjusted separately; Paint with Antibacterial Protection Layer Supplied with dust cover in Styrofoam case Includes: <i>Pair of HWF 20x/10 mm eyepiece for EduBlue</i>	
2	3	Unit	<b>CLINICAL CENTRIFUGE</b> Microcomputer control, DC brushless motor, stable operation, low noise and high speed accuracy; LED or LCD display; User-friendly interface, simple and convenient operations; Various of PRP kit is available. Special program is made for PRP kit; The real-time conversation of Speed and RCF is convenient for operation; It has self-locking	





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No	QTY	Unit	Description	Statement of COMPLIANCE
			device, lid safety device, over-speed safety device, and automatic alarm device, etc. Max speed: 4000r/min; Max speed: 2220xg Max capacity: 7ml /15ml/20ml/50ml angle rotor Speed accuracy: $\pm 30$ r/min; Time setting: 1min~99min; Noise: <65dB(A) Electricity: 110V/60Hz 220V/50Hz With angle rotor for 15 ml x 12	
3	2	Unit	<b>PORTABLE LABORATORY AUTOCLAVE</b> *applicable for both decontamination and sterilization Quick opening structure; High quality stainless steel material; Simple operation, safe and reliable Self inflating type seal; Electric and gas heating both use; Auto release when over pressure; Double scale indication pressure gauge; Volume: 18L Power: 2.0Kw; Voltage: AC220V,50Hz; Rated working pressure: 0.142 Mpa; Rated working temperature: 126°C- this is the temp; Temperature Accuracy: $\pm 1$ Chamber volume: $\varnothing 280 \times 295$	
4	1	Unit	<b>INCUBATOR</b> Heating Incubator 240 Liters The working room is made of high-quality mirror-finished stainless steel, and the four corners are in arc transitions; The surface is treated by anti-corrosion process; The spacing of the partitions is adjustable; The quick detachable structure of the bottom heating cover is convenient for cleaning; The shell is made of high-quality cold-rolled steel plate, and the surface is treated by electrostatic spraying process; The PID microcomputer intelligent temperature controller has functions such as precise timing of temperature control, over-temperature alarm, precise temperature control, and convenient reading; The box door with new structure has good heat insulation effect; There is a double-layer tempered glass observation window with a large viewing angle in the middle, equipped with a lock-type elastic adjustment door lock, and a high-temperature resistant silicone sealing strip to ensure good tightness and prevent heat loss; The heating power has two gears, which can meet the needs of users at high and low temperature; Temperature variation (°C)RT+5~80°C; Temperature fluctuation(°C) $\pm 0.5$ °C ; Temperature resolution(°C)0.1°C ;Ambient temperature (°C) $\pm 1.0$ °C	
5	1	Unit	<b>DIGITAL COMPOUND MICROSCOPE</b> <b>Trinocular Microscope with PROPAD-5</b> Trinocular microscope with plan PL 4/10/S40/S100x oil IOS objectives Mechanical rackless stage and 3W illumination; WF 10x/20 mm eyepieces; Trinocular head, Siedentopf type, 30° inclined tubes; Interpupillary distance 48-75 mm; Reversed quadruple revolving nosepiece on ball-bearings	



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			Plan 4x, 10x, S40x, S100x oil immersion infinity corrected IOS objectives; All optics are anti-fungus treated and anti-reflection coated for maximum light throughput; Coaxial coarse and fine adjustments with 200 graduations; Precision 1.5 $\mu$ m, 0.3 mm per rotation; Total travel approximately 28 mm; Friction adjustment; Plain 140 x 150 mm stage with 75 x 40 mm mechanical rackless stage; Height adjustable Condenser N.A. 1.25 with iris diaphragm and filter holder; 3W illumination. Internal power supply 100-240 V (CE); Supplied with power cord, dust cover and 5 ml immersion oil in styrofoam case	
6	1	Unit	<b>DIGITAL STEREO MICROSCOPE WITH PROPAD-5</b> Trinocular stereo zoom microscope NexiusZoom, 0.67x to 4.5x zoom objective, magnification from 6.7x to 45x with pillar; Incident and transmitted 3W LED illuminations; Pair wide field eyepieces HWF10x/22mm without eyecups; Trinocular head with 45° inclined tubes; Diopter adjustment $\pm 5^\circ$ on two tubes. Interpupillary distance adjustable between 54 and 75 mm; 0.67x to 4.5x zoom objective, magnification from 6.7x to 45x; Field of view from 33 mm to 4.9 mm; Working distance 110 mm; Ergonomically pillar stand; Maximum object height 148 mm; Supplied with opaque stage plate, white/black stage plate and 2 object clamps; Incident and transmitted 3W LED illumination with internal power supply; Both illumination intensities can be adjusted separately; Paint with Antibacterial Protection Layer; Supplied with dust cover in Styrofoam case	
			<b>(FOR ITEMS No. 5 &amp; 6) PROPAD Specifications:</b> <b>PROPAD-5 10 inch tablet with HD touchscreen, keyboard-docking station and 5.0 MP microscope USB-2 camera</b> 10 inch tablet with 5.0 MP 1/2.8 inch microscope camera; Processor Quad Core 1.33 GHz with HD graphics processor; Screen 1280 x 800 (WGXA) touchscreen, LED backlight; Memory 2 GB DDR RAM, 2 MB cache; Storage 32 GB intern SDD, micro SD up to 32 GB; Webcam 2 MP, 1600 x 1200 pixels front and rear cameras; Connectivity Micro USB 2.0, Wi-Fi 802.11 b/g/n and Bluetooth 4.0; Audio Stereo with 3.5 mm audio jack and internal microphone; Battery Lithium, 4420 mAh, 17 Wh; Housing Aluminium, white color, 214 x 128 x 9.8 mm; System Windows 8.1, 32 bit; Supplied with Keyboard-docking station Camera 5.0 MP 1/2.8 inch CMOS supplied with cables, mount and ImageFocus Plus software for Windows; Resolution camera 2592 x 19420 Pixel size 2.0 x 2.0 $\mu$ m greyscale conversion 8 bits, color rendering 24 bits; Dynamic range 72 dB Sensitivity > 2.0 V/lux-sec	
7	1	Unit	<b>BIOSAFETY CABINET</b> Specifications: Classification: Class II Type A2; Cleanliness level: ISO level 4; External Dimension: 1465*760*2200 mm	





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No	QTY	Unit	Description	Statement of COMPLIANCE
			Working Zone Dimensions: 1300*520*640 mm Maximum Opening: 470 mm; Work Surface Height: 730 mm; Base Height: 630 mm; Filtration efficiency: $\geq 99.9995\%$ , @0.12 $\mu$ m; Filters: ULPA (U15)* 2pcs Downflow air velocity (m/s): 0.25~0.40; Inflow air (m/s): $\geq 0.5$ ; Sound emission: $\leq 67$ dBA; Vibration peak: $\leq 5\mu$ m; Illumination: $\geq 1000$ Lux; LED lamp: 20W*2 pcs; UV lamp: 30W*1 pc; Applicable number of people: 1-2; Wind direction: Top out Standard Accessories: UV lamp*1 pc, LED lamp*2 pcs, waterproof socket*1 pc, ULPA (U15) filter*2 pcs, Base Stand; Electricity: AC220V, 50/60Hz; 1.5 kW	
<b>TERMS AND CONDITIONS</b>				
			1. Must have an experienced service engineer for after-sales. 2. For all equipment, inclusive of installation/set-up, calibration (if necessary), and testing. 3. Must have one (1) on-call technical personnel assigned to the project. 4. On-site visit and troubleshooting in case of malfunctions. 5. 2 days training with certificate for all participants. 6. 2-year warranty for microscopes and 1-year warranty on parts and services for other equipment 7. Authorization Certificate from the manufacturer	