



TF-2021-02-00020

PPMP #: 14-4-697-2021-8-0-1



Republic of the Philippines
VISAYAS STATE UNIVERSITY
Visca, Baybay City, Leyte

PURCHASE REQUEST

Dept./Office: **DOH**PR #: **TF-2021-02-00020**Date: **01-29-2021**Section/End-User: **Catherine C. Arradaza**Category: **Laboratory Equipment**Funding Source: **Trust Fund**Project Title/Code: **20201050-1.95**

| Item # | Item Description | Unit | Qty | Unit Cost | PAR/ICS | Total Cost |
|--|---|------|-----|------------|---------|------------|
| 1 | Analytical Balance, at least 220g capacity | unit | 1 | 53,000.00 | | 53,000.00 |
| Specification: 4 decimal places Automatic Internal Calibration, LCD back-lit display Capacity 220g Readability 0.1 mg Repeatability (std dev) 0.1 mg Linearity (+/-) 0.2 mg Pan size (mm/inch) 90 Ø/3.5Ø Response time 3sec. Calibration Perfect Self Auto Calibration (temperature / time /power on) Display Bright LCD Display with LED backlight Unit of measure gram, Milligram Tare Range Full Operating Temperature 10°C to 40°C Dimension (WDXH) mm 342.5X212x341 Power Supply AC Adapter 100V- 240V +/- 20% 50-60Hz Net weight with Packing 8 kgs Packing Dimension (WDXH) mm 500 x 380 x 510 / 19.6? x 14.9?x 20? | | | | | | |
| 2 | Autoclave High Steam Sterilizer | unit | 1 | 200,000.00 | | 200,000.00 |
| Specification: <ul style="list-style-type: none">• (High Pressure Steam Sterilizer) , Automatic, Vertical Autoclave• Portable, Top-loading Autoclave• Space-saving design with lid opening upward.• Dual-sensing lid interlock prevents lid opening when chamber is pressurized or when temperature exceeds 97°C. | | | | | | |

- One-touch lever to easily open and close chamber lid
- Door-closure sensor provides a prompt and the cycle will not start unless the door is closed properly.
- In-process display shows status and progress of sterilization cycle
- Agar sterilization mode for sterilizing agar and then automatically maintaining it at liquid temperature
- Sterilization timer is activated only when load temperature reaches set temperature
- Temperature Range: 105°C to 135°C
- Agar warming range: After sterilization, agar can be maintained from 45°C to 60°C (programmable) for up to 24 hours to prevent coagulation.
- Sterilization Timer: 1 to 300 minutes
- Cooling Fan: Switch to turn fan on or off
- Safety Features: Circuit breaker with GFCI, low-water power cut-off, over-temp power cutoff, over-pressure power cut-off, safety valve, sensor for improper lid closing
- Power Requirements: 220V, 50/60 Hz, single phase
- Power Consumption: 3.9 Kw Shipping Weight: 255 lb (116 kg)

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|---|--------------------------------|------|---|-----------|--|-----------|
| 3 | Digital microscope with camera | unit | 1 | 52,000.00 | | 52,000.00 |
|---|--------------------------------|------|---|-----------|--|-----------|

Specification:

Compound Biological Trinocular Digital Microscopes with Camera and Software (2.0MP),

| | | | | | | |
|---|-----------------------------------|------|---|-----------|--|-----------|
| 4 | Dispensing pump for culture media | unit | 1 | 60,000.00 | | 60,000.00 |
|---|-----------------------------------|------|---|-----------|--|-----------|

Specification:

single pump

-Continuous, Multi-dose (predetermined volume, with a pause between each dose)

- Digital control screen, Rotating button for easy navigation and program settings

- Compact: only 16 cm wide

-Up to 1% precision

-Dispenses liquid from 50 µL to 99 L

-Step-by-step instructions on screen

-Calibration possible with chosen volume

-High quality Watson Marlow™ pump heads

-Heavy duty polycarbonate top shell and durable stainless steel

| | | | | | | |
|---|----------------------|------|---|------------|--|------------|
| 5 | Distilling Apparatus | unit | 1 | 150,000.00 | | 150,000.00 |
|---|----------------------|------|---|------------|--|------------|

Specification:

Note: Distilling apparatus in cart is beyond the budget allocated.

Housing made of stainless steel

Pilot switch light

with thermostat

Distillation capacity L/H; 4

Water consumption L/Min : 1

Equipment measures HxWX Depth (mm): 435x370x220

Heaters: 3000W

Electricity : 230V-50/60 Hz 13A

Equipment wt: 8

| | | | | | | |
|--|---|------|---|------------|--|------------|
| 6 | Floor Standing Mounted Airconditioner | unit | 1 | 80,000.00 | | 80,000.00 |
| Specification: At least 4.0HP Energy Saving Compressor, 3D Air Delivery System with Sleep Mode with Auto On / Off Timer with High Efficiency Air Filter with Remote Control Air Conditioner Rated Capacity (BTUs) at least 2.5 | | | | | | |
| 7 | Laminar Flow Hood, Horizontal , with Hepa Filters, UV germicidal light | unit | 1 | 200,000.00 | | 200,000.00 |
| 8 | Microbead Sterilizer | unit | 1 | 52,000.00 | | 52,000.00 |
| Specification: Plain metal cover, glass-cup and glassbeads (150g), 220 or 240 V, 90 W Glassbead container: Stainless steel Glassbeads (filling portion) : 150g Inside dimensions: 3x4cm (1.2x1.6in) Casing dimensions (HxWxD): 14.4x12.5x14cm (5.7x5x5.5in) | | | | | | |
| 9 | Orbital shaker | unit | 1 | 53,000.00 | | 53,000.00 |

Specification:

Bench top shaker (Medium size)

External Dimensions (WxDxH mm) 480x380x165

Shaking System : Orbital

Shaking Plate Size (WxD mm) 480x380

Shaking Rate (RPM) 20 to 300

Shaking Width (mm) 25

| | | | | | | |
|----|--------------------|------|---|------------|--|------------|
| 10 | PCR Thermal Cycler | unit | 1 | 250,000.00 | | 250,000.00 |
| 11 | pH meter | unit | 1 | 54,000.00 | | 54,000.00 |

Specification:

digital, with pH electrode; with pH 4, 7 and 10 (1L each) pH standard

Size: Measuring range:0 ~ 14.00pH Accuracy:±0.012pH

Note: Conventional pH measurement used in the experiment room, accord with the most simple to use.

Category: Bench Type PH meter

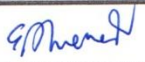



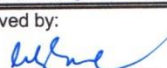
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|----|-----------------|------|---|-----------|--|-----------|
| 12 | Pressure cooker | unit | 1 | 52,000.00 | | 52,000.00 |
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Specification:

- , Heavy Duty, 41.5 quarts
- Professional quality, extra heavy duty cast aluminum construction throughout for fast & even heating
- Stay-cool bakelite top handle
- Geared steam gauge
- Equipped with 2 automatic venting features which provide an extra margin of safety (the safety control valve & overpressure plug)
- Pressure regulator weight with settings of 5, 10 and 15 psi
- Smooth, easy to clean satin finish
- Double thickness edges for additional protection on points of heaviest wear

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|--|--------------|--|--|--|--|---------------------|
| | TOTAL | | | | | 1,256,000.00 |
|--|--------------|--|--|--|--|---------------------|

Purpose: For DOH Plant Tissue Culture Laboratory use

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|--|---|--|--|
| Checked by:  ELIZABETH S. QUEVEDO | | Funds Available:  ERLINDA S. ESGUERRA | |
| TWG - Laboratory Equipment | | HEAD, ACCOUNTING OFFICE | |
| Signature: | Requested by:  | Noted by:  | Approved by:  |
| Printed Name: | CATHERINE C. ARRADAZA | CATHERINE C. ARRADAZA | EDGARDO E. TULIN |
| Designation: | END USER | UNIT HEAD, PROJECT LEADER | PRESIDENT, VSU |