To: ARIC

Budget Office

OP 9/10

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PR-2024-0806-214736

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

# PURCHASE REQUEST

PPMP No. : **161-2-3228-2024-10-0-2**

PR No.: **GF-2024-08-01500**

Date: **08-06-2024**

Dept./Office: **ARIC**

Category: **Laboratory Equipment**

Section/End-User: **Chinelo M. Cardaño**

Project Title/Code: **Eastern Visayas - Biotechnology (Laboratory Supplies)**

Funding Source: **General Fund - CO**

| Item # | Item Description | Unit | Qty | Unit Cost | PAR/ICS | Total Cost |
|---|---|---|---|---|---|---|
| 1 | **Autoclave High Steam Sterilizer** | unit | 1 | 200,000.00 | CHINELO M. CARDAñO | 200,000.00 |

**Specification:**

?( 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 KwShipping Weight: 255 lb (116 kg)

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 | **Micro Centrifuge Ventilated (Ambient)** | unit | 1 | 190,000.00 | CHINELO M. CARDAñO | 190,000.00 |

**Specification:**

?Angle rotor 24 x 1.5 ml / 2.0 ml, with standard cover
?Angle of rotor: 45°
?Max. speed: 15000 rpm
?Max. RCF: 21380 x g
?Construction:
?Weight without rotor: at most 35 kg (77 lbs)
?The centrifuge's main body shall be constructed from electrogalvanized steel; chamber construction is plastic ABS (Acrylonitrile butadiene styrene).
?External surfaces are powder coated with Isocide™ antimicrobial coating on all painted surfaces to inhibit bacterial growth.

?Power requirements:
?The centrifuge shall work on 230 V AC, 50/60 Hz
?Performance:
?RCF range: 10-21380 x g
?Speed range: 200-15000 rpmM
?Maximum volume: 44 x 1.5/2.0 ml; 4 x 8 PCR strips; 24 capillaries
?Number of rotor options: 7
?Temperature control range: Ambient
?Time set range: 99 hrs 59 mins / 59 min 50 s in 1min / 10s increments / continuous
?Maintenance-free, brushless motor
?Equipped with German-originated motor, requiring neither bearing replacement nor change oil.
?No carbon brush, low interference to radio equipment.
?Aerosol-tight rotor
?High-quality, extremely robust aluminum lid rotor for aerosol-tight centrifugation
?All rotor, buckets, lids, and adapters are autoclavable (20 min, 121°C).
?V-balance™ weight imbalance protection
?Automatic imbalance recognition that allows the rotor to decelerate and stop.
?Genuine-Protec™ safety lid design
?Safety lid with motor-driven design, provides a real safe protection for misoperation.
?Large storage space
?Allow the users to edit and store up to 99 programs with speed, centrifugal force, running time, temperature, and acceleration or deceleration rate, and rotor code.
?Automatic conversion between RPM and RCF
?Adjustable acceleration / deceleration control system- Offer 10 different types of acceleration / deceleration rate options. Both 0-9 options on acceleration/deceleration.
?Alarm system- Audible and visual alarms are activated during system failure. There are total of 10 alarm sounds available.
?Overspeed protection (OSP)
?Over-temperature protection (OTP)
?Various operation mode- Three types of spin mode: short spin for short running, continuous spin and time-setting spin can be chosen to suit various applications.
?Real-time modification of parameter - The parameters like rotary speed, RCF, running time, and temperature can be adjusted during the operation to improve your working efficiency.
?Controller:
?Microprocessor control system - Big rotary knob and buttons, convenient for rotation and operation and large LCD screen with clear indication of running condition including rotor, speed, time etc.
?Operation panel is water-proof which can well protect the inner electric parts.
?An error message is displayed on LCD for troubleshooting and an audible alarm is activated during system failure.

| | | | | | | |
|---|---|---|---|---|---|---|
| | **TOTAL** | | | | | **390,000.00** |

Purpose: For EV-Biotech laboratory use

| Checked by: | Funds Available: |
|---|---|
| **GENESIS C. ALBARICO** | **ALICIA M. FLORES** |
| TWG - Laboratory Equipment | HEAD, BUDGET OFFICE |

| | Prepared by: | Noted by: | Approved by: |
|---|---|---|---|
| Signature: | | | |
| Printed Name: | CHINELO M. CARDAÑO | MA. THERESA P. LORETO | PROSE IVY G. YEPES |
| Designation: | | UNIT HEAD, PROJECT LEADER | PRESIDENT, VSU |