

PPMP #: 32-4-394-2021-8-0-11



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

PURCHASE REQUEST

PR #: TF-2021-10-01455

Date: 10-27-2021

Dept./Office: CVM

Category: Laboratory Equipment

Section/End-User: Santiago T. Peña Jr.

Project Title/Code: PCAARRD 202050-1.100/Optimizing **Boar Semen Cryopreservation Towards Effective**

Funding Source: Trust Fund

Industry Utilization and Genetic Conservation (Part 2)

	Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
-	1	Constant Temperature Incubator	unit	1	67,000.00		67,000.00

Specification:

Constant Temperature Incubator

Capacity: 50L

TEMP RANGE: RT+5-65?

TEMP PRECISION: 0.1?

Features:

- · LCD display
- Microprocessor temperature controller
- · The working chamber adopts round angle structure, easy to clean.
- · Double door design and magnetic door sealing.
- · Water-jacket function which helps to keep long time temperature upon power off.
- · Water overflow protection

Safety function:

- · Over temperature protection, temperature sensor malfunction alarm.
- · Parameters can be saved automatically when power off or system error.
- · High and low water level alarm, automatic heating off for low water level.

	Horizontal Benchtop Autoclave Steam Sterilizer	unit	1	80,000.00	SANTIAGO T. PEñA JR.	80,000.00
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Specification:

Horozontal Benchtop Autoclave Steam Sterilizer, 24 L

Specifications:

· Chamber Capacity: 26x46cm

· Inside Capacity: 24.41L

Outside Size: 60x35x47cm

Sterilize Temperature: 126 deg. celsius (highest)

Sterilize Pressure: 1.5kg/cm3 (highest)

· Sterilize Time: 35 minutes

Heater: 1500W

· Material Quality: Stainless Steel SUS No. 304, Boiler chamber surface with burnish

Electric Current: 220V 7A9A

· Safety Equipment: Double pressure adjustment, adjust the inner pressure, if over standard value automatic vent

1 3 1	Micro Centrifuge Ventilated (Ambient)	unit	1	190,000.00	SANTIAGO T. PEñA JR.	190,000.00
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Specification:

Micro Centrifuge Ventilated (Ambient)

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 q

Construction:

Dimensions (WxDxH): 280 x 563 x 294 mm

· Weight without rotor: 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.

Pipettor Set - Volumetric Pipette Controller and Miropipette Pipettors Complete	set	1	85,000.00	SANTIAGO T. PEñA JR.	85,000.00
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Specification:

Pipettor Set - Volumetric Pipette Controller and Miropipette Pipettors Complete Set

- 1- Electronic pipette controller 0.1-200mL range; battery pack: Lithium battery 2.4V; pipetting speed: 50ml in less than 10 seconds; for glass and plastic pippettes from 0.1-200ml; includes assorted reusable/autoclavable glass pipettes 10-50mL capacity
- 4- Micropipette set fully autoclavable; volumes: 2uL-20UL, 10uL-100uL,100uL-1000uL, 500uL-5000uL; color-coded push buttons for each volume; includes carousel stand

5	Thermoregulated Semen Shipper (BotuBOX*)	unit	1	56,500.00	SANTIAGO T. PEñA JR.	56,500.00
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Specification:

*to be requested on Negotiated Procurement- Sole Distributor in the Philippines

- · Glass fiber container with polyurethane insulation
- Used for transporting semen at 15°C.
- · Excellent maintenance of the internal temperature.
- · Minimum volume for transport is 100 mL per shipment.

	TOTAL		478,500.00				
Purpos	Purpose: For PCAARRD-VSU boar semen cryopreservation project.						
Checke	JACOB GLENN F. JANS	ALIN	Funds Available: NICK FREDDY R. BELLO				
	7WG Laboratory Equip	ment	(OIC) HEAD, ACCOUNTING OFFICE 1(H, 10)2k				

	Requested by:	Noted by:	Approved by:
Signature:	Abo		alghan _
Printed Name:	SANTIAGOTT. PEÑA JR.	SANTIAGOT. PEÑA JR.	EDGARDO E. TULIN
Designation:	END USER	UNIT HEAD, PROJECT LEADER	PRESIDENT, VSU