



PURCHASE REQUEST

PR #: TF-2021-09-01164

Date: 10-01-2021

Dept./Office: **CVM**Category: **Laboratory Equipment**Section/End-User: **Santiago T. Peña Jr.**

Project Title/Code: **PCAARRD 20201050-
 1.1001/Enhancement of the Visayas State University
 Semen Laboratory for Boar Semen Cryopreservation**

Funding Source: **Trust Fund**

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	Benchtop Refrigerated Centrifuge Complete Set	set	1	745,000.00	SANTIAGO T. PEÑA JR.	745,000.00

Specification:

- Swing-bucket rotors and adapters accommodate tubes and bottles from 0.2 mL to 750 mL
- Plate rotors for centrifugation of all types of MTP, PCR, cell culture, or Deepwell Plates
- Fixed-angle rotors for high-speed applications in tubes from 0.2 mL to 85 mL
- High centrifugation speed of up to 20,913 × g (14,000 rpm)
- Aerosol-tight Eppendorf QuickLock® caps and lids for easy, one-hand operation
- Centrifuge lid with soft-touch lid closure
- Low access height of 29 cm for easy loading and unloading of samples
- Quiet operation to improve your work environment
- Compact footprint saves valuable bench space
- Automatic rotor recognition and imbalance detection for maximum operational safety
- Temperature range from -9 °C to 40 °C
- FastTemp function for fast pre-cooling
- Continuous cooling maintains a constant temperature after the run has been completed – your samples stay cool
- ECO shut-off engages after 8 hours of non-use to reduce energy consumption and to extend compressor life
- Dynamic compressor control (DCC) technology for optimized cooling performance

Max. capacity

- Conical tubes: 56 × 15 mL/ 28 × 50 mL
- Blood collection tubes: 100 × 13 mm/ 80 × 16 mm

Plates: 16 × MTP/ 4 × DWP

AVR Included

2	Cold Storage Boar Semen Preservation Cabinet	unit	1	110,000.00	SANTIAGO T. PEÑA JR.	110,000.00
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Specification:

- Used to hold/store boar semen at 15-17 degrees celsius
- AVR included

3	Controlled-Rate Programmable Freezer	unit	1	2,000,000.00	SANTIAGO T. PEÑA JR.	2,000,000.00
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Specification:

- Used for the cryopreservation of any biological product (semen, plasma, blood cells, tissue, gametes, etc.).
- Sample capacity: 420 mini straws / 240 medium straws - MicroDigit Cool
- The chamber contains 6 freezing racks
- Ideal with Pressurized 60-liter LN2 container with hose and wheels
- Controlled deep freezing
- External dimensions: 600 x 380 x 520 mm
- Internal dimension: 490 x 325 x 230 mm
- Weight: 38 kg - Volume: 26 L
- Air displacement: 2 650 rpm / 495 m3/h
- Dimensions and weight of control box: 360 x 370 x 150 mm / 7 kg
- Working temperature: -145°C to +45°C
- Cooling rate: -0.1°C to -60°C / minute
- Operating pressure: 1.3 to 1.5 bars / 18.8 to 21.7 psi
- Nitrogen consumption per cycle: 6 to 8 liters
- Automatic Voltage Regulator (AVR) included

4	Cryoshipper with Protective Shipping Container	unit	1	165,000.00	SANTIAGO T. PEÑA JR.	165,000.00
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Specification:

CryoShippers are designed for the safe transportation of biological samples (frozen sperm, oocytes, and embryos) at cryogenic (-150°C or colder) temperatures.

Utilizes advanced QWick Charge material that charges with liquid nitrogen in fewer than two hours, providing the capacity for same-day vapor shipping. Manufactured from durable, lightweight aluminum, both series employ a hydrophobic compound, which absorbs the liquid nitrogen to ensure dry, spill-free vapor-phase shipping. In addition, a protective shipping carton is available for this model to ship your samples with a "non-hazardous" classification throughout the world, thus reducing costs and helping to assure sample viability.

FEATURES:

- Low liquid nitrogen consumption
- Convenient lightweight package
- Durable, tamper-proof lid design
- High strength neck tube reduces liquid nitrogen loss
- Strong, lightweight aluminum construction
- Advanced chemical vacuum retention system
- Hydrophobic liquid nitrogen absorbent system
- CHARGES IN LESS THAN TWO HOURS
- Warranty: 3 year vacuum

DETAILS:

- Static Holding Time Days: 21
- Weight Empty lb. (kg): 11.0 (5.0)
- Weight Charged vapor lb. (kg): 17.0 (7.7)
- Weight Full liquid lb. (kg): 21.0 (9.5)
- Maximum Storage Capacity
 - Number of Canisters: 1
 - No. of 1/2 cc Straws 10/cane: 120

- No. of 1/2 cc Straws 1 Level Bulk: 210
- No. of 1/4 cc Straws 1 Level Bulk: 452
- No. of 1.2 & 2.0 ml Vials 5/cane: 40
- No. of 1.2 & 2.0 ml Vials 6/cane: 48
- Performance
 - Liquid Nitrogen Capacity L: 4.3
 - Static Evaporation Rate L/day: 0.20
- Unit Dimensions
 - Neck Opening in (mm): 2.00 (51.0)
 - Overall Height in (mm): 19.4 (492)
 - Outside Diameter in (mm): 8.70 (222)
 - Canister Height in (mm): 11.0 (278)
 - Canister Diameter in (mm): 1.81 (46)




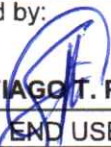

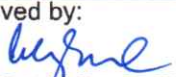
5	Vertical Cold Cabinet Set	set	1	1,550,000.00	SANTIAGO T. PEÑA JR.	1,550,000.00
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Specification:

- The vertical cold cabinet is used to lower the temperature to 4 degrees celcius.
- It is specially designed to receive any filling and sealing equipment for cryopreservation of boar semen in straws.
- It has two motors, to adapt to the tropical conditions of some countries
- Length 2.2m x Height 2.1m
- Automatic Voltage Regulator (AVR) included

	TOTAL					4,570,000.00
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Purpose: For use in the PCAARRD-VSU boar semen cryopreservation project.

Checked by:  ELIZABETH S. QUEVEDO		Funds Available:  NICK FREDDY R. BELLO	
TWG - Laboratory Equipment		(OIC) HEAD, ACCOUNTING OFFICE 	
Signature:	Requested by: 	Noted by: 	Approved by: 
Printed Name:	SANTIAGO T. PEÑA JR.	SANTIAGO T. PEÑA JR.	EDGARDO E. TULIN
Designation:	END USER	UNIT HEAD, PROJECT LEADER	PRESIDENT, VSU