



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

PURCHASE REQUEST

PR No.: **GF-2022-09-01916**Date: **09-21-2022**Dept./Office: **ARIC**Category: **Laboratory
Equipment**Section/End-User: **Sarah Jean C. Sugano**Project Title/Code: **Eastern Visayas Innovation Center
for Health and Biotechnology (EV-Biotech)**Funding Source: **General Fund - CO**

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	Basic Bench pH meters with replaceable electrode and buffer	unit	1	60,000.00	SARAH JEAN C. SUGANO	60,000.00

Specification:

?Accuracy temperature: $\pm 0.3^{\circ}\text{C}$
 ?Accuracy pH: ± 0.1
 ?Electrical requirements: AC/DC 9 V adapter (220 VAC, 60 Hz)
 ?Resolution (mV): 0.1 mV (± 199.9 mV); 1 mV beyond ± 200 mV
 ?Temp probe calibration: offset in 0.1°C increments; offset range $\pm 5^{\circ}\text{C}$
 ?Range pH: 0 to 14
 ?Accuracy mV: ± 0.2 mV (± 199.9 mV), ± 2 mV beyond ± 200 mV
 ?Calibration points: 1 to 5 points with automatic buffer recognition (ABR)
 ?Include 13-620-AE6 3-in-1 single junction gel pH/ATC electrode
 ?Memory: 100 datasets
 ?Resolution temperature: 0.1°C
 ?Temperature compensation: automatic or manual (0 to 100°C)
 ?Temperature range metric: 0.0 to 100.0°C
 ?Range mV: ± 1999 mV
 ?Resolution pH: 0.01
 ?Power source: 220 - 240 50/60 Hz
 ?Warranty: 2-year meter warranty; 6-month electrode warranty

2	Biological Safety Cabinet Class IIA	pc	1	700,000.00	SARAH JEAN C. SUGANO	700,000.00
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Specification:

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Nominal Size : 5 feet

Type: Class II, Type A2

Filtration Efficiency ULP: 99.9995% @ 0.12µm

Internal Dimensions (W x D x H) mm 1604*630*630

External Dimensions (W x D x H) mm 1800*795*2050

Airflow Pattern (downflow / exhaust): 70% / 30%

Blower: DC EBM Blower

Noise(dB): 60

Downflow: ULPA Filter

Exhaust: ULPA Filter

Main Body: Electro-galvanized steel with Akzo-Nobel white oven-baked powder coating

Sash Glass Thickness: 6mm

Sash Working Opening: 200mm

Sash Maximum Opening: 460mm

Sash Maximum Opening: 460mm

Full Access for Glass Cleaning: Yes

Illumination (Lx): 1100

Net Weight(kg): 400

Gross Weight: 450

LED Brightness Lamp: 36W*1 pc

UV Lamp: 40W*1 pc

Receptacle (pieces/Power/Current) : 2 pcs/500W/3A

Water Valve : 1 pc

Gas Valve Stand: 1 pc

Adjustable Feet: 4, as standard

Casters: 4, as standard

Compatible UPS atleast 3kva

Compatible AVR atleast 3kva

One chair

Onsite installation

3	CO2 Incubator	pc	1	750,000.00	SARAH JEAN C. SUGANO	750,000.00
Specification: Description: Advanced large capacity for high-value cells and high throughput labs Capacity: at least 255 L (9.0 cu. ft.) Chamber type: Direct heat Door swing: Right hinged Exterior material: Brushed 304 L stainless steel Choose interior: 304 Stainless steel › 100% copper › Sterilization: Steri-Run (180°) IP Rating : IP54 rated In-chamber HEPA filtration : ISO Class 5 interior conditions Active particle control system: ISO Class 5 GMP grade A/B external conditions Airflow technology: THRIVE CO2 sensors: IR180Si O2 control: at least 5-90% Humidity: Covered integrated reservoir with easy draining User interface: iCAN touch screen Documentation Package: Included Data Output: at least 4-20mA standard Compatible UPS at least 3kva Compatible AVR at least 3kva At least one CO2 Tank (empty) Compatible Table for the equipment Onsite installation At least 1 year warranty 2 cycles of preventive maintenance including filter and other accessories.						
4	Real Time PCR	pc	1	3,490,000.00	SARAH JEAN C. SUGANO	3,490,000.00
Specification: <ul style="list-style-type: none"> Thermal cycler- temp range (0-100C) 						

- accuracy ± 0.2 C of programmed target;
- gradient range (30-100C);
- Optical detection sensitivity (detects 1 copy of target sequence in human genomic DNA);
- Dynamic range- 10 orders of magnitude;
- operating systems compatible to windows 8-10 or MacOS
- Compatible UPS atleast 3kva
- Compatible AVR atleast 3kva
- Onsite installation
- Atleast 1 year warranty
- 2 cycle of preventive maintenance

5	Refrigerator 4 degrees-double door	pc	1	500,000.00	SARAH JEAN C. SUGANO	500,000.00
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Specification:

Temperature Range: 2°C to 10°C

Capacity (English): at least 45 cu. ft.

Electrical Requirements: at least 115 V 60 Hz

Plug Type: NEMA 5-15 P

Dimensions (D x W x H) Interior: 27 x 49 x 61.75 in. (686 x 1245 x 1569 mm)

Shipping Weight (Metric):at least 255 kg

Interior: Painted White Steel

Capacity (Metric) Shelf: at least 45 kg/full shelf, 22.5 kg/half shelf

Warranty: 2 years parts and labor, plus 3 year compressor warranty

Temperature (Setpoint): 5°C

Ports: 1 Rear access port and 2 side access ports

Door Style: Glass

Shelves: 8 Full, 2 Half

Certifications/Compliance: cULus, ENERGYSTAR

Capacity (Metric): at least 1274 L

Amperage: at least 5 A

Dimensions (L x W x H) Exterior: at least 32 x 52.7 x 81 in.(813 x 1339 x 813 mm)

Shipping Weight (English): at least 561 lb.

Refrigerant: R290

Capacity (English) Shelf: at least 100 lb./full shelf; 50 lb./half shelf

Access Security: Key Lock

Color: White

Model: CPLA

Control Type: Microprocessor

No. of Doors: 2

Compatible UPS atleast 3kva

Compatible AVR atleast 3kva

Onsite installation

Atleast 1 year warranty

2 cycle of preventive maintenance

6	Ultra-Low Freezer	pc	1	1,500,000.00	SARAH JEAN C. SUGANO	1,500,000.00
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Specification:

Temperature Range: -50°C to -86°C

Certifications/Compliance CE, ENERGYSTAR

Capacity (English): at least 28.8 cu. ft.

Capacity (Metric): at least 816 L

Vial Capacity: at least 60,000 x 2 mL

Electrical Requirements: at least 230 V 50 Hz

Voltage: 230 V

Frequency: 60 Hz

Amperage: 4/10 A

Plug Type: European

Dimensions (D x W x H) Interior: 28.3 x 34.4 x 51.2 in. (71.9 x 87.3 x 130.1 cm)

Weight (English): 679 lb.

Weight (Metric): 308 kg

Shipping Weight (English): 765 lb.

Shipping Weight (Metric): at least 347 kg

Display: Touch-Screen LCD

Refrigerant: R290 (1st stage), R170 + R290 mix (2nd stage)

Capacity (English): Shelf 245 lb.

Capacity (Metric) Shelf:at least 111 kg

Smart View Compatibility Smart-Vue Compatible

Depth (English) Interior:at least 28.3 in.

Depth (Metric) Interior: at least 71.9 cm

Height (English) Exterior: at least 78 in.

Height (English) Interior:at least 51.2 in.

Height (Metric) Exterior:at least 198.1 cm

Height (Metric) Interior:at least 130.1 cm

Width (English) Interior at least 34.4 in.

Width (Metric) Interior at least 87.3 cm

DefrostManual

Width (English) Exteriorat least 39.6 in.

Width (Metric) Exterior at least 100.6 cm

Connectivity: DeviceLink™ (Networks: WPA2-PSK, WPA-PSK, WEP, WPA2-EAP-PEAP, WPA-EAP-PEAP)

Dimensions (DxWxH) Exterior: at least 37.6 x 39.6 x 78 in. (95.5 x 100.6 x 198.1 cm)

Depth (English) Exterior: at least 37.6 in.

Type: Ultra-Low Freezer, Upright

Depth (Metric) Exterior: at least 95.5 cm

Green FeaturesEnergy efficient

Holds: at least 2 in. Boxes (600)

Compressor: V-Drive Compressor

Insulation: Vacuum Insulation Panels (VIP) + Water-Blown Polyurethane Foam (SNAP-compliant)

MaterialPolyurethane Foam (Insulation), Stainless Steel (Interior)

Monitoring Options Alarm, Recorder

Rack Capacity: at least 24

Shelves: at least 3

Style Upright

Unit Size Each

Compatible UPS atleast 3kva

Compatible AVR atleast 3kva

Onsite installation

Atleast 1-year warranty

2 cycle of preventive maintenance

TOTAL

7,000,000.00

Purpose: Molecular Experiments

Checked by:


JACOB GLENN F. JANSALIN

TWG - Laboratory Equipment

Funds Available:


for: **ALICIA M. FLORES** *EV-PROTECH*
qtr HEAD, BUDGET OFFICE *Co*

Signature:

Printed Name:

Designation:

Requested by:


SARAH JEAN C. SUGANO

END USER

Noted by:


EDGARDO E. TULIN

UNIT HEAD, PROJECT LEADER

Approved by:


EDGARDO E. TULIN

PRESIDENT, VSU