



## PURCHASE REQUEST

Dept./Office: **NARC**PR #: **TF-2021-05-00254**Date: **05-26-2021**Section/End-User: **Romel B. Armecln**Category: **Laboratory Equipment**Funding Source: **Trust Fund**Project Title/Code: **DA-BAR 20201050-10.112**

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	<b>Autoclave High Steam Sterilizer (Electric)</b>	pc	1	90,000.00		90,000.00

**Specification:**

- 120 or 240 volt operation
- 1650 Watts
- 60 min. mechanical bell timer
- Capacity: 39 L
- Calrod immersion heating element
- 3 wire grounded cord and plug
- Aluminum inner container w/ rack
- Stainless steel support stand

2	<b>Emergency Eye-Wash Station/Shower</b>	sets	2	50,000.00		100,000.00
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**Specification:**

- Material: stainless steel
- Emergency shower: 304 stainlesssteel inlet pipe,s/s stay-open ball value with s/s actuating arm s/s pull rod & s/s shower head
- Eye wash: 304 stainless steel inlet pipe,s/s stay-open ball value with flag handle & s/s eye wash bowl
- Spray head: Chemical resistant PP/Solid brass,built-in stainless steel filter to remove impurities from water
- Foot treadle stainless steel available

3	<b>Flame Photometer</b>	unit	1	600,000.00		600,000.00
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**Specification:**

- ((supplied)Range: 0 to 199.9ppm
- Limits of detection: Na: 0-2ppm; K: 0.2ppm; Ca: 15ppm; Li: 0.25ppm; Ba: 30ppm
- Reproducibility: Less than 1% CV
- Linearity less than 2% error
- Electrical Supply: 190-250V at 50/60Hz
- Air Supply: Moisture and oil free, 6 liter/min at 14psi
- Fuel: Propane, butane, natural gas or LPG
- Size (w x d x h): 420 x 360 x 300mm
- Weight: 8kg
- With Accessories
  - Filters for Na, K, Li, Ca, Ba
  - Connecting hoses and clips

- Compressor plug, drain trap, and fuses
- Operation and instruction manual
- Air compressor
- Water separator
- Calibration standards for Na, K, Li, Ca, Ba

4	Laboratory Freezer (Upright Type)	unit	1	250,000.00		250,000.00
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**Specification:**

Total Gross Capacity: not less than 300 Li

External Dimension: approx. 60cm x 62cm x 184cm (wxdxh)

Internal Dimension: approx. 42cm x 40cm x 159cm ( wxdxh)

Temperature range: -9°C to -30°C or lower

Liner material: preferably polystyrol material

Shelf loading: not less than 20kg

Controller: Electronic

Number of drawers: 8 or more

Power supply: 220V

Preferrably with accessories such as AVR, adaptors, etc.

5	Microscope with Infinity Corrected Optics and Eyepiece Camera	unit	1	150,000.00		150,000.00
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**Specification:**

**MICROSCOPE**

- Optical System: UIS2 (Universal infinity-corrected) optical system
- 6V/30W halogen bulb
- 100-120V/220-240~0.85/0.45A 50/60Hz
- Focusing: Stage height movement by roller guide
  - Fine adjustment scale: 2.5microns per gradation
  - Fine adjustment stroke: 0.3microns per turn
  - Total stroke: 20microns
- Revolving Nosepiece: Fixed quadruple nosepiece with inward tilt
- Objectives: Plan C Achromat Objectives
  - 4xNA: 0.10 W.D.: 27.8 mm
  - 10xNA: 0.25 W.D.: 8.0 mm
  - 40xNA: 0.65 W.D.: 0.6 mm
  - 100xOil NA: 1.25 W.D.: 0.13 mm
- Binocular Observation Tube: Field Number: 20
- Tube inclination: 30 degree
- Interpupillary distance adjustment range: 48mm-75mm
- Stage: Size: 188mm(W) x 134mm(D)
- Movement range: 76mm X-direction x 50mm Y-direction



- Stage: Size: 188mm(W) x 134mm(D)
- Movement range: 76mm X-direction x 50mm Y-direction
- Specimen holder: Double slide holder
- Rubber grip: Equipped as standard
- Condenser: Type: Abbe condenser, with built-in daylight filter
- NA: 1.25 with oil immersion
- Aperture in diaphragm: Built-in

#### EYEPIECE CAMERA

- Optics
  - Built-in magnification: 25x
  - Lens type: Glass with Anti-Reflection coating
- Sensor
  - Sensor Type: CMOS
  - Resolution: 5 Megapixel (2592x1944)
  - Maximum frame rate: 30 fps
- Dimensions
  - Mounting type: Inside ocular/tube & c-mount
  - Ocular inner diameter: 23, 30, 30,5mm
  - Dimensions: 80 mm (H) x 32 mm (D)
- Compatibility
  - Interface: USB 2.0
  - Operating system: Windows XP, Vista, 7,8, & 10, MacOS 10.4 and up
  - Inclusion of software

6	Multi-position Hot Plate Stirrer	pc	1	95,000.00		95,000.00
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#### Specification:

- 3 independent heating/stirring positions
- 600 x 270 mm footprint
- robust aluminum / silicon alloy top plates
- Stirring speed: 1500rpm
- Volume: 15 L
- 3 x 25 mm PTFE coated stir bars

7	Pipette Sets (0.1-2.5 $\mu$ L, 2-20 $\mu$ L, 20-200 $\mu$ L, and 100-1000 $\mu$ L)	sets	1	100,000.00		100,000.00
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#### Specification:

##### Pipette Sets (0.1-2.5 $\mu$ L, 2-20 $\mu$ L, 20-200 $\mu$ L, and 100-1000 $\mu$ L)

- Includes: 4 single-channel pipettors, universal linear stand for four single-channel pipettors
- With specific color codes
- Number of Channels: 1
- Finger Style and grip type: Ergonomic
- Autoclavable
- Corrosive resistant

8	Top Loading Balance	pc	1	30,000.00		30,000.00
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**Specification:**

- Readability (d): 0.01 g
- Weighing range (max): 3600 g
- Taring range (subtractive): 3600 g
- Reproducibility: 0.02g
- Linearity: + - 0.05 g
- Adjustment points: 1.0/2.0/3.0/3.6 kg
- Housing (BxDxH) mm: 167 x 250 x 85
- Weighing plate stainless steel mm: 130 x 130
- Weight kg (net): 1.5

**PURCHASE REQUEST**

PR # 17-05-155-00254

Date: 05-25-2017

Category: Laboratory Equipment

Project Title/Code: DA-BAR 2020-1050-40 172

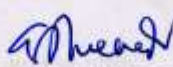

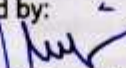
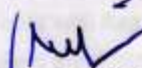
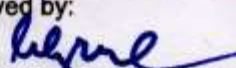
Item No.	Item Description	Unit	Qty	Unit Cost	PARSEC	Total Cost
9	Vortex Mixer	unit	1	40,000.00		40,000.00

**Specification:**

- Processing Range: 2 mL to 50 mL
- Speed: 600 - 3,200 RPM variable
- Orbit: 4 mm
- Power rating: 120/230 VAC/50/60 Hz
- Dimension: L: 6.5in(16.51cm), W: 4.8in(12.192cm), H: 6.5in(16.51cm)
- Product weight: 8.8 lbs. (4kg)

<b>TOTAL</b>						<b>1,455,000.00</b>
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Purpose: for microbial examination

Checked by:  <b>ELIZABETH S. QUEVEDO</b>		Funds Available:  <b>ERLINDA S. ESGUERRA</b>	
TWG - Laboratory Equipment		HEAD, ACCOUNTING OFFICE	
Signature:	Requested by: 	Noted by: 	Approved by: 
Printed Name:	<b>ROMEL B. ARMECIN</b>	<b>ROMEL B. ARMECIN</b>	<b>EDGARDO E. TULIN</b>
Designation:	END USER	UNIT HEAD, PROJECT LEADER	PRESIDENT, VSU