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PR-2024-0906-221321



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

PURCHASE REQUEST

PPMP No. : **PPMP-2024-090424-0400**

PR No.: **GF-2024-09-01678**

Date: **09-06-2024**

Dept./Office: **DPhys**

Category: **Laboratory
Equipment**

Section/End-User: **Mary Joy P. Israel
Perlie A. Gucola**

Funding Source: **General Fund - CO**

Project Title/Code: **DPhys-Lab Equipment**

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	Mechanical Waves Experiment	set	4	237,604.00	REV RHIZZA L. AURE	950,416.00

Specification:

String Vibrator

- Output power: ± 1 Amp at 10 V max
- Dimensions: 12.7 cm x 7.5 cm x 5 cm
- Thickness at recessed clamping surface: 3 cm

Sine Wave Generator

- Frequency: 1.0 to 800 Hz (Adjustable in 0.1 Hz increments)
- Output: DC coupled push-pull with short-circuit protection
- Amplitude: 0 to 10 V peak
- Current: ≤ 1 A into 8 Ω load
- Memory: Up to 80 stored frequencies
- Display: 4 digit LED
- Input Power: 100-240 VAC, 50-60 Hz
- Dimensions: 12 x 11 x 5 cm

Open Speaker

- Frequency Response: 80 - 8000 Hz
- Impedance: 8 ohms
- Input Power: 60 W (max)

Economy Resonance Tube

- Outer tube length: 1.3 m
- Inner tube length: 1.3 m
- Outer tube diameter: 0.15 m

Elastic Wave Cord

- Diameter: 3 mm
- Length: 90 meters

Braided Physics String

- Material: Braided Dacron, non-stretching and non-unraveling
- Force tolerance: Up to 133 Newtons (13.6 kg)
- Length: 320 meters

Mass and Hanger Set

- Hanger Mass: 5 g $\pm 2\%$
- Larger Masses: 100 g, 50 g, 20 g, 10 g, and 5 g all $\pm 1\%$
- Smaller Masses: 2 g, 1 g, and 0.5 g all $\pm 2\%$

Universal Table Clamp (2 units)

- Fits tables or shelves up to 6.0 cm (2 3/8 inch) thick
- Can be mounted on a ring stand
- Compatible with standard unthreaded lab rods (9.5 mm to 12.7 mm) and 1/2-13 threaded lab rod in the vertical position

Adjustable Angle Clamp

- Fits rods up to 12.7 mm (1/2 inch) in diameter
- Can lock the rod in place at any angle
- Features a fixed rod clamp on one end and a swiveling rod clamp on the other, with a locking knob in between

Super Pulley

- Diameter: 5.1 cm (2")
- Outside circumference: 16 cm (6.3")
- Groove circumference: 15 cm (5.9")
- Mass: 5 g
- Moment of inertia: $1.8 \times 10^{-6} \text{ kg} \cdot \text{m}^2$
- Max load: 20 N
- Dual precision ball bearings
- Threaded inserts: 1/4-20

Pulley Mounting Rod

- Length: 14 cm
- Diameter: 9.5 mm (3/8 in.)
- Standard 1/4"-20 thread

Stainless Steel Rods (2 units)

- Length: 45 cm
- Diameter: 12.7 mm (1/2 inch)
- Non-magnetic, very rigid, and durable

Banana Plug Cord-Red (5 Pack)

- Wire gauge: 24 aw
- Length: 75 cm

Waves Experiment Manual

- Includes usage demonstration



	TOTAL					950,416.00
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Purpose: For DPhys Laboratory Use and COPC application of BSCE program.

Checked by:		Funds Available:	
GENESIS C. ALBARICO		ALICIA M. FLORES CO-CA 801 JUL 20 2019 99	
TWG - Laboratory Equipment		HEAD, BUDGET OFFICE	
Signature:	Prepared by:	Noted by:	Approved by:
Printed Name:	MARY JO P. ISRAEL	REV RHIZZA L. AURE	PROSE IVY G. YEPES
Designation:	PERLIE A. GUGELA	UNIT HEAD, PROJECT LEADER	PRESIDENT, VSU