

SCAN HERE



PR-2024-0315-186152



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

0298-0299

PURCHASE REQUEST

PPMP No. : 2-1-2093-2024-2-0-4

PR No.: STF-2024-03-00902

Date: 03-15-2024

Dept./Office: DAS

Category: Laboratory
 Supplies

Section/End-User: Poca Joe A. Didal

Funding Source: Special Trust Fund

Project Title/Code: DAS Laboratory

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	Aluminum Foil Jumbo Roll	pcs	10	600.00		6,000.00

Specification:

- 300 meters x 12 inches

2	Buffer Solution pH 4, 500 mL	btl	1	2,500.00		2,500.00
3	Buffer solution, pH 7, 1000 ml.	btl	1	1,200.00		1,200.00
4	Cotton Thread for Oxygen Bomb	packs	1	11,000.00		11,000.00

Specification:

Cotton Thread 500 Pieces

Used to measure heat released or absorbed during a process, bomb calorimeters calculate the Gross Calorific Value (GCV) of a solid or liquid. The IKA C 5000 is the only bomb calorimeter to feature three separate GCV determination methods in one instrument: adiabatic, isoperibolic, and dynamic.

Generally, measurements are performed using adiabatic or isoperibolic methods. Adiabatic methods minimize heat loss by keeping the surrounding temperature the same as the sample temperature, making it the most accurate for measuring calorific values of solids or liquids. Isoperibolic methods allow the reaction within the vessel to take place, while the water temperature in the surrounding vessel is held constant

5	Distilled water, 10 ltrs./bottle	liters	10	200.00		2,000.00
6	Filter Paper Ordinary	pcs	1	5,000.00		5,000.00

Specification:

ordinary, 30 x 40 in., 100 sheets/pack

7	Hydrochloric acid, HCl	btls	2	1,000.00		2,000.00
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Specification:

Analytical reagent grade, concentrated, 2.5L/bottle

8	Ignition Wire for Oxygen Bomb	boxes	1	9,000.00		9,000.00
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Specification:

Product introduction: Oxygen bomb calorimeter ignition wire burning wire nichrome wire 0.12, 0.18, 0.3mm

Material: high quality nickel wire;

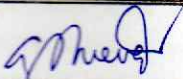

In diameter, 0.1, 0.12, 0.15, 0.18, 0.20, 0.3mm;

Calorific value: 25J/10CM, 42J/10CM, 50J/10CM, etc.

Usage: it is used in coal laboratory instrument calorimeter, 0.3mm for ignition wire burned cotton ignition; below 0.2 for ignition wire direct ignition and ignition wire burned cotton ignition.

Method for correct use of ignition wire:

Good ignition wire, in the air through the test. Ignition on the cotton thread, the voltage regulation make ignition wire to dark red in the 4s-5s in fuse ignition, voltage regulation make ignition wire in the 1s-2s achieve a bright red;

9	LPG Gas Refill	tanks	3	1,200.00		3,600.00
Specification: contents only, 11 kgs.						
10	Oxygen Refill	tank	2	1,200.00		2,400.00
Specification: Industrial (contents only)						
11	Petroleum Ether, AR	gallon	4	5,000.00		20,000.00
12	Sulfuric acid, H ₂ SO ₄	btls	4	5,000.00		20,000.00
Specification: ?Concentrated, analytical reagent grade, at least 1.84 sp. gr., 2.5L/bottle						
TOTAL						84,700.00
Purpose: Laboratory use						
Checked by:  ELIZABETH S. QUEVEDO TWG - Laboratory Supplies				Funds Available:  ALICIA M. FLORES HEAD, BUDGET OFFICE		
Signature:	Prepared by:	Noted by:			Approved by:	
Printed Name:	POCA JOE A. DIDAL	MANUEL D. GACUTAN JR.			DANIEL LESLIE S. TAN	
Designation:		UNIT HEAD / PROJECT LEADER			PRESIDENT, VSU	

