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PR-2025-0422-268036



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

0376

PURCHASE REQUEST

PPMP No. : **PPMP-2025-040425-1085**

PR No.: **GF-2025-04-00529**

Date: **04-22-2025**

Dept./Office: **DFST**

Category: **Laboratory
Analysis and Services**

Section/End-User: **Ivy C. Emnace**

Funding Source: **General Fund - MOOE**

Project Title/Code: **VSU-IP-2023-8 (Cassava)**

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	Structural Properties of Cassava Flour and Starch (FE-SEM)	sample	6	8,000.00	IVY C. EMNACE	48,000.00

Specification:

Field Emission Scanning Electron Microscopy (FE-SEM)

Nature of Sample:

Three varieties of NSIC-Cassava flour and starch varieties

Test Method:

FE-SEM Imaging

- High-resolution and high-magnification imaging
- Granule size and shape of starch and flour
- ~20nm resolution
- Up to 1Mx magnification

2	Thermal Properties of Cassava Flour and Starch (DSC)	sample	6	3,500.00	IVY C. EMNACE	21,000.00
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Specification:

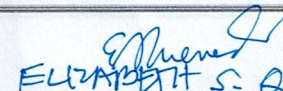
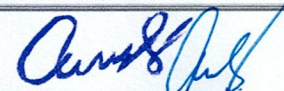
Differential Scanning Calorimetry (DSC)

Nature of Sample: Three NSIC-Cassava flour and Starch Varieties

TEST METHOD:

DSC

- Detects changes that alter heat flow
- Detects solid phase transition can such as melting, glass transitions, phase changes, and curing material's heat capacity or change in heat content.

TOTAL				69,000.00	
Purpose: Visualize and Analyze the morphological structure of the starch and the arrangement of starch from the flour.					
Checked by:  ELIZABETH S. QUEVEDO GENESIS C. ALBARICO			Funds Available:  ALICIA M. FLORES		
TWG - Laboratory Analysis and Services			HEAD, BUDGET OFFICE		
Signature:	Prepared by:	Noted by:		Approved by:	
Printed Name:	IVY C. EMNACE	IVY C. EMNACE		PROSE IVY G. YEPES	
Designation:		UNIT HEAD, PROJECT LEADER		PRESIDENT, VSU	