



VSU RESEARCH QUARTERLY REPORT OF ACCOMPLISHMENT FORM

[April to June, 2022]

Study 2: **Design, Fabrication, and Evaluation of a Light and Low-cost Trailer-Mounted Abaca Spindle Stripping Machine**

I. Program/Project/Study Objectives *(Please specify if it is a program/ project/study):*

Project Title: Improvement of Abaca Fiber Extraction and Processing Machines (Phase 3)

Objectives

General:

To design, fabricate, and evaluate a prototype of a light and low-cost trailer-mounted abaca spindle stripping machine.

Specifically

1. To design a lighter and low-cost trailer-mounted abaca spindle stripping machine,
2. To fabricate a working prototype of a trailer-mounted abaca stripping machine,
3. To evaluate the technical performance of the developed machine prototype,
4. To evaluate other machine features such as: maximum towing and turning speeds, ease in mounting and dismounting of engine, and ease in transporting,
5. To determine the cost and return analysis of the prototype, and
6. To promote the developed machine prototypes to potential end-users.

II. Relevance to VSU & College's Thrust and Priorities: Relevant

III. Highlights of accomplishments within the quarter

A. Targets for the quarter

- a. Concept generation of a lighter and low-cost trailer mounted abaca spindle stripping machine.
- b. Selection, canvassing, and purchasing of needed materials.
- c. Fabricate and preliminary testing of the machine prototype