



NATIONAL ABACA RESEARCH CENTER

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VSU RESEARCH QUARTERLY REPORT OF ACCOMPLISHMENT FORM

[April to June, 2022]

Study 2:

<u>Design, Fabrication, and Evaluation of a Light and Low-cost Trailer-Mounted Abaca Spindle Stripping</u>

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



Vision: A globally competitive university for science, technology, and environmental conservation.

Mission: Development of a highly competitive human resource, cutting-edge scientific knowledge and innovative technologies for sustainable communities and environment.

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