



## NATIONAL ABACA RESEARCH CENTER

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# VSU RESEARCH QUARTERLY REPORT OF ACCOMPLISHMENT FORM

[January 1, 2022 - March 31, 2022]

Research Title: <u>Development of Stripping Machine Equipped with 24</u>
<u>TPI Blade Serrations</u>

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 develop a solar-powered, easy to carry and operate, Abaca Spindle Stripping Machine with 24 TPI blade serrations.

### Specifically

- 1. To develop a concept design of a solar-powered Abaca Spindle Stripping Machine,
- 2. To fabricate a working prototype of a solar-powered abaca stripping machine,
- 3. To evaluate the technical performance of the developed machine prototypes,
- 4. To determine the cost and return analysis of the prototypes, and
- 5. 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 solar-powered Abaca Spindle Stripping Machine
    - b. Selection, canvassing, and purchasing of needed materials
  - B. Highlights of accomplishments
    - 1. The basic concepts of solar-power generation system were reviewed and studied using any available information from the internet and other



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.

