



**VSU RESEARCH QUARTERLY REPORT OF ACCOMPLISHMENT FORM**

[January 1, 2022 - March 31, 2022]

**Research Title: Development of Stripping Machine Equipped with 24 TPI Blade Serrations**

**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

