



VSU RESEARCH QUARTERLY REPORT OF ACCOMPLISHMENT FORM
[October 1 to December 31, 2021]

I. Program/Project/Study Objectives

Project Title: **Characterization and Quality Assessment of Locally Made Biofertilizers**

- Study 1 : Microbial and Molecular Analysis of Biofertilizers Developed at VSU (RTPiamonte)
Study 2 : Physico-Chemical and Biochemical Characterization of Locally made Biofertilizers in VSU- EcoFARMI (for 2022) (RBArmecin)
Study 3 : Field Evaluation of Locally Made Biofertilizers to a Selected Crops (RBArmecin and RTPiamonte)

Objectives

General Objective:

To evaluate the quality, characteristics, and effectiveness of different biofertilizer products developed at VSU

Specific objectives:

Study 1

1. To determine the temporal variation in microbial population density in biofertilizers developed at VSU.
2. To characterize the microbial isolates obtained from the biofertilizer products of VSU.
3. To profile the microbial species richness of the biofertilizer products of VSU using molecular approach.

Study 2

1. To determine the temporal variation in physico-chemical and biochemical composition of biofertilizer products of VSU.

Study 3

1. To evaluate the efficacy of biofertilizer products of VSU in the field.

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

III. Highlights of accomplishments within the quarter

Study 1: *Microbial and Molecular Analysis of Biofertilizers Developed at VSU*

- a. Targets for the quarter
 - Microbial population density analysis for EM and VSU vermicast.
 - Isolation of potential microorganisms from EM and VSU vermicast.

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.