QUARTERLY RESEARCH PROGRESS REPORT
QUARTER 4th

Research Title: OneRicePH: Accelerating Genetic Gain for Improved Productivity and Nutrition for Priority Market Segments 2024

I. Project Objectives

1. To evaluate and select promising early and mid-maturing rice lines developed from IRRI, PhilRice, and UPLB that are high-yielding, climate-resilient, and adaptable to local conditions.
2. To recommend promising rice lines as entries to the National Cooperative Testing (NCT) Nationwide.
3. To facilitate the submission and recommendation of high-yielding, climate-resilient, and acceptable eating quality rice lines to the National Seed Industry Council for variety approval.
4. To assess the development of product concepts for target rice market segments and the establishment of the national breeding network.

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

This project is in line with the University's and College's goals and priorities to address the problem of food security in the country and worldwide affected by climate change. The scarcity of rice in the country attributed to low productivity is the result of the increasing temperature, intense and unpredictable rainfall, and periodic and persistent drought exacerbated by climate change.

This collaborative research between VSU, IRRI, and PhilRice focuses on developing and selecting rice lines that are high-yielding, climate-resilient, and highly adaptable to the local conditions with excellent eating quality. The project also responds to the priority thrust by reducing poverty and improving the livelihood of rice farmers by enhancing their rice productivity.

III. Highlights of accomplishments within the quarter

A. Targets for the quarter

Conduct stage 1 trials for TELS-I and TELS-R pipelines for the wet season (June to November 2024). This includes a collection of the necessary agronomic and yield parameters and submission to IRRI for consolidation and analysis. Each pipeline has 150 rice lines plus 12 different check varieties.

Conduct stage 2 trials for TELS-I and TELS-R pipelines for the wet season. A total of 60 rice lines were evaluated, consisting of 20 lines from MET, 10 from IRRI, 10 from PhilRice, and 10 from UPLB, along with 10 check varieties. The stage 2 rice lines were judiciously selected from the stage 1 trial based on the targeted desirable traits.