

QUARTERLY RESEARCH PROGRESS REPORT

QUARTER: 1st

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

I. **Project Objectives**

1. To evaluate and select promising early and mid-maturing rice lines developed by 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).
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:**

The research tie-up between VSU and IRRI is evidence of collaboration on an international scope through this project entitled OneRicePH: "Accelerating Genetic Gain for Improved Productivity and Nutrition for Priority Market Segments". This project dovetailed on a unified collaborative breeding network with the International Rice Research Institute (IRRI), the Philippine Rice Research Center (PhilRice), and the University of the Philippines (UP), Los Baños, Laguna, Philippines. They jointly embarked on the development of breeding rice lines for testing nationwide, for NCT submission and testing, and submission to the National Seed Industry Council (NSIC) for varietal approval. These breeding lines are high-yielding, climate-resilient, best eating quality, and adaptable to the local conditions that are nowadays aggravated by the ill effects of climate change.

This project responds to the priority thrust of reducing poverty and improving the livelihood of rice farmers by enhancing their rice productivity despite exposure to climate change situations. This also aims to achieve food security, improve nutrition, and promote sustainable agriculture throughout the country.

III. **Highlights of accomplishments within the quarter**

A. **Targets for the quarter**

Established two (2) trials stage 1 and stage 2 under TELS-I (irrigated) and TELS-R (rainfed) pipelines during the dry season (January to June) which was started the second week of February 2025 at the experimental fields of the Visayas State University main campus. The stage 1 trial of both TELS-I and TELS-R implementation under dry season has a total of 162 breeding rice lines, from the three breeding institutions: 50 from IRRI, 50 from PhilRice, and 50 from UPLB, and with the addition of 12 various local and global check varieties, totaling 162 entries each specified pipelines.

Similarly, the stage 2 trial for both TELS-I and TELS-R at the same season has a total of 60 breeding lines: 20 from MET, 10 from IRRI, 10 from PhilRice, and 10 from UPLB, along with 10 different check varieties, making a total of 60 entries for each pipeline for this research undertaking.

