

## QUARTERLY RESEARCH PROGRESS REPORT

QUARTER: 3<sup>rd</sup>

**Research Title:** Morphological, Physiological and Yield Responses of Irrigated Lowland Rice Under AWD Water Management Strategy in Leyte and Bohol Provinces

### I. General objectives

To assess the morphological, physiological and yield responses of irrigated lowland rice under Alternate Wetting and Drying (AWD) water management strategy in Leyte and Bohol provinces in order to sustain rice productivity, increase water-use efficiency while mitigating GHG emissions.

### II. Project Objectives

1. To compare the morphological characteristics of hybrid and inbred rice varieties grown under AWD and continuous flooding practice.
2. To evaluate the physiological responses of hybrid and inbred rice varieties subjected to AWD and continuous flooding practice.
3. To assess the yield variation in hybrid and inbred rice varieties under AWD and continuous flooding condition.

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

The study is anchored on the University's mission of promoting sustainable, climate-smart and resource-efficient farming practices. AWD is proven to lower methane gas emissions, directly contributing to greenhouse gas (GHG) reduction while enhancing water-use efficiency in rice production. The study also provides knowledge that can be extended to students, farmers and policy makers, reinforcing VSU's role as a driver in sustainable agricultural development.

### Highlights of accomplishments within the quarter

#### A. Targets for the quarter

Generally, the team targeted on introducing the project to the provincial government of Leyte and Bohol through the Office of the Provincial Governor or his representatives. Hiring of personnel was also prioritized, and farmers training on AWD was also programmed, along with identifying study sites and farmer cooperators. We also consider that the MOA will be finalized and signed by VSU and Green Carbon Inc.

#### B. Highlights of accomplishment

- Attended meeting with Mr. Hamsha R. Saz, manager of Verde Carbon Capture Inc (VCCI) and the VCCI team for a thorough discussion about the project
- Conducted a training in Brgy. Tugbong, Kananga, Leyte on AWD together with the farmer-cooperators and stakeholders.

- Participated a meeting with Dr. Larry Pamugas, the assistant Provincial Agriculturist of Bohol together with the Investors from Toho Gas, VCCI CEO and staff, and other key players involved in the project.
- Conducted site assessment and validation in Brgy. San Pascual, Ubay, Bohol.
- Conducted interview with applicants for the hiring of two research assistants
- Joined the project team during the Investors' visit from Sumitomo Corporation at Sta. Fe, Leyte, and participated in a subsequent meeting with the representative from the Office Provincial Agriculturist of Leyte
- Conducted farmer's training on AWD and Integrated Nutrient Management in rice production at VSU
- Prepared the experimental area at VSU for the AWD project implementation. Seedbed preparation and sowing was conducted.

#### IV. Physical Report of Operation

##### A. Research Program

	Particulars/Name and Brief Description of Utilized/ Commercialized Technologies	Number
<b>Outcome Indicator</b>		
1. Number of research outputs utilized by the industry or by other beneficiaries	No, the project is still ongoing.	0
<b>Output Indicator</b>		
1. Number of research outputs completed within the year	Output was not yet completed since the trial is still conducted under the dry season.	0
2. Percentage of research outputs published in internationally referred or CHED-recognized journals within the year	None, still in progress	0

##### B. Technologies/Information patented and commercialized

Technology Invention(s) New Information	Invention Patent Number	Date of Issue	Utilization of Invention		Name of Commercial Product
			Development	Service	
A. <b>Technology Invention(s)</b>	NA	NA			NA
B. <b>New Information</b>	NA	NA			NA

##### C. Research papers published (Identify if articles were for Research, Extension, Innovation, or MSc/ PhD Studies)

	Title	Author (s)	Date/Year/Publication/ Publisher	Remarks (if Research, Extension, Innovation, Thesis, MSc/PhD)
a. Refereed Journal	NA	NA	NA	NA



Institutional				
National				
International				
b. Semi-popular publ'n (newsletter, etc.)	NA	NA	NA	NA
c. Popularized pub'ln (technoguides, etc.)	NA	NA	NA	NA
d. Book Chapter/s	NA	NA	NA	NA
e. Books	NA	NA	NA	NA

**D. Citation**

Research Output as Cited by Other Researcher(s) in Journal Activities									
Title of Research Output/ Published Journal Articles/ Book	Title of Journal & Vol. Issue/ Year	Keywords	Researcher (s)	Citation Details					
				Author(s) Who Cited the Research Output	Title of Article Where the Research Output Was Cited	Title of Journal	Vol. / Issue / Page No.	City/ Year Published	Publisher
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**V. Issues, Problems, and Recommendations**

Problems Met	Recommendation
Delays in the processing and finalizing of the MOA	Conduct team meetings, document review and revisions.

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Faculty Dean

Date Submitted: \_\_\_\_\_

Received by OVPREI-RPO: \_\_\_\_\_

Date Received: \_\_\_\_\_