



QUARTERLY AND ANNUAL RESEARCH PROGRESS REPORT

Project/Study Title: Morphological, Physiological and Yield Responses of Irrigated Lowland Rice Under AWD Water Management Strategy in Leyte and Bohol

Project/Study Leader: Ed Allan L. Alcober

Members: Jea Zamora- Research Assistant
Jomaica Delon- Research Assistant

Funding Source: Verde Carbon Capture Incorporated (VCCI)

I. Objectives: The general objective of the study is 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. Specifically, the study aims to compare the morphological characteristics of hybrid and inbred rice varieties grown under AWD and continuous flooding practice, evaluate the physiological responses of hybrid and inbred rice varieties subjected to AWD and continuous flooding practice, and assess the yield variation in hybrid and inbred rice varieties under AWD and continuous flooding condition.

II. Short SDG Statement: The study is anchored on Sustainable Development Goals 13 (Climate Action) of the United Nations and 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.

III. Relevant Outputs

1. Publications/Presentations

Project Code:	
Implementation Period:	
Date Received	
1 st Qtr.	
2 nd Qtr.	
3 rd Qtr.	
Annual	

Note: Dates to be filled out by RPO



Quarterly Outputs	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter/Annual
A. Journal Publications (complete citation in APA style)	None	None	None	None
A.1. Scopus/WoS-indexed				
A. 2. Other Publications				
B. Book/ Book Chapter				
C. Paper/Poster Presentations (complete citation)				
C.1. Local/Institutional				
C.2. Regional				
C.3 National				
C.4 International				

D. Newsletter/ techno guides, and other relevant publications				

2. Technologies/Products, and Patents/Trademarks/Copyrights/Utility Models/Industrial Designs, and other IPs commercialized/utilized by the Industry

Title/Name of Technology/Products (include generator/author/inventor)	Short Description	Type of IP (Patent/Utility Model, Industrial Design, Copyright)	Status (Utilized/Commercialized)	Technology Adopter (if available online, pls. provide link)
None	None	None	None	None

Note: Type of IP (Patent, Utility Model, Industrial Design, Copyright)

IV. Policy Reports/Recommendations

Title/Name of Policy/Policy Brief	Short Description	Policy Details (pls. provide a copy of the endorsement or approved policy advisory)
None	None	None

V. Citation or Attribution by other R&D Works

Publication, Patents or Policy Outputs	Citation by others (APA style where applicable)

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(APA style where applicable)	
None	None

VI. R&D Linkages Forged/Maintained

Title of MoA/MoU	Department & Agency Involved	Period Covered	Budget (If applicable)
Verde Carbon Capture Inc and Visayas State University	Department of Agronomy	June-December 2025	3.6 M

VII. Awards and Recognitions

Awardee	Name of Award	Awarding Body	Date & Venue
None	None	None	None

VIII. List of Equipment/Apparatus Purchased/Upgraded or Facilities Enhanced through the Project

Equipment/Facilities/Apparatus	Department/Faculty	Total Cost	Funding Source
Gas chamber	Department of Agronomy and Department of Soil Science	36,000	Verde Carbon Capture Inc.

IX. Relevant Research Outputs Utilized by the Industry or by Other Beneficiaries (Information/Technology)

Name of the Research Outputs	Short Description	Industry Capacitated/Other Beneficiaries (if applicable)
<p>1. Meeting with Funding Agency and Other Stakeholders Involved in the project.</p> <p>2. Training on AWD and INM to the farmer cooperators</p> <p>3. Site validation at St. Fe, Leyte and San Pascual, Ubay, Buhol</p> <p>4. Establishment of the experiment</p>	<p>1.1 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</p> <p>1.2 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.</p> <p>2.1 Conducted farmer's on AWD in Brgy. Tugbong, Kananga, Leyte together with stakeholders</p> <p>2.2 Conducted farmer's training on AWD and Integrated Nutrient Management in rice production at VSU</p> <p>3.1. Conducted site validation to assess the condition and suitability of the field for the experiment.</p> <p>4.1. Conducted the experiment at VSU rice experimental area</p>	<p>Rice Farmers Irrigator's Association, National Irrigation Administration Personnel</p>

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X. Problems Encountered and Recommendations

Detailed Description	
Problem/Issues Addressed	1. Delay in the MOA preparation and signing.

Strategic Action Plan Taken	Person Responsible	Timeline		Resources Required	Potential Risks
		Date to Begin	Date Due		
Project implementation	Ed Allan L. Alcobber Jea Zamora- RA Jomaica Delon- RA	October 2025	November 2025	Approved MOA, Farmer Cooperator, Research Assts.	Natural calamities
Crop Monitoring	Ed Allan L. Alcobber Jea Zamora Jomaica Delon	October 2025	January 2026	Vehicle, Office supplies	Natural calamities
Data collection	Ed Allan L. Alcobber Jea Zamora Jomaica Delon	November 2025	January 2026	Measuring tools, and equipment	Natural calamities and delays in the laboratory
Data analysis and interpretation	Ed Allan L. Alcobber Jea Zamora Jomaica Delon	January 2026	February 2026	Statistical software	None
Report writing and submission	Ed Allan L. Alcobber Jea Zamora Jomaica Delon	February 2026	April 2026	Laptop and Office supplies	Delay caused by overlapping of schedules

Submitted by:


ED ALLAN L. ALCOBER

Project/Study Leader

Endorsed:

LUZ G. ASIO

Dept. Head/Center Director

SUZETTE B. LINA

Dean

Recommending Approval:

IVY C. EMNACE

Director for Research

Approved:

SANTIAGO T. PEÑA

VP for Research, Extension, and Innovation

Operational Definition of Terms:

1. **Title** - the identification of the Program and the component projects (*as defined by DOST*)
2. **Project** - refers to the basic unit in the investigation of specific S&T problem/s with predetermined objective/s to be accomplished within a specific time frame (*as defined by DOST*)
3. **Project Leader** - refers to a project's principal researcher/implementer (*as defined by DOST*)
4. **Implementation Period** - refers to the grant period or timeframe that covers the approved start and completion dates of the project, and the number of months the project will be implemented (*as defined by DOST*)
5. **Members** - an individual involved in the project to achieve its research goal.
6. **Funding Source** - represents an act of contributing resources to finance a program, project, or need.
7. **Objectives** - statements of the general and specific purposes to address the problem areas of the project (*as defined by DOST*)
8. **Short Sustainable Development Goal (SDG) Statement** - indicates which among the 17 SDGs adopted by the United Nations Members States are addressed by the project (*as defined by DOST*)
9. **Journal Publications** - the process of publishing articles, research papers, or scholarly works in a specialized journal, typically within an academic or professional field.
10. **Scopus/WoS Indexing** - indicate that a journal or publication has been included in a reputable and widely used abstract and citation database. This means the journal's content is considered of high quality and is tracked for citations and research impact.
11. **Paper/Poster Presentations** - paper presentations are oral presentations of research or work, often with a slideshow, while poster presentations are visual displays of research on a large printed poster, often used at conferences or meetings. Poster presentations allow for interaction with viewers, while paper presentations are more structured and formal.
12. **Newsletter** - is a regularly published document, often electronic, that provides updates, news, and information to a specific group of people interested in a particular field or organization. It serves as a way to keep recipients informed about ongoing research, new discoveries, relevant events, and other important details within that domain.
13. **Techno Guides** - provide targeted information on a particular topic.
14. **Technologies** - refers to the tangible results or products of research activities that utilize technology. These outputs can be various, including new inventions, improved processes, scientific publications, and advancements in knowledge. Essentially, it's what is produced when technology is applied to address a research question or problem.

15. **Products** - products or services that can be offered to the market for commercial purposes, such as new consumer goods or medical devices.
16. **Patents** - is a legal right to an invention given to a person or entity without interference from others who wish to replicate, use, or sell it.
17. **Trademarks** - can be any word, phrase, symbol, design, or a combination of these things that identifies your goods or services.
18. **Copyrights** - is the legal ownership of intellectual property with the right to control its reproduction and distribution.
19. **Utility Models** - is a type of intellectual property protection, similar to a patent, but designed for minor or incremental innovations.
20. **Industrial Designs** - may consist of three dimensional features, such as the shape of an article, or two dimensional features, such as patterns, lines or color.
21. **Commercialized** - refers to the process of taking research findings or innovations and turning them into marketable products, services, or technologies that can be offered to the public for profit.
22. **Policy Advisory** - refers to the practice of providing expert advice and recommendations to policymakers on a particular issue or set of issues.
23. **Citation** - is a way of acknowledging and giving credit to the original source of information, ideas, or images used in a paper or work.
24. **R&D Linkages** - agencies participating in the R&D work
25. **Award and Recognitions** - refer to the acknowledgment and celebration of achievements, often for specific contributions or outstanding performance.
26. **Equipment Purchased** - refers to tangible, non-expendable assets acquired to support research activities.
27. **Equipment Upgraded** - equipment that are improved or made more efficient.
28. **Facilities Enhanced** - means that improvements have been made to existing buildings, equipment, or services to improve their functionality, efficiency, or overall quality.
29. **Problems Encountered** - means to have experienced difficulties or issues encountered in the project.
30. **Recommendations** - are actionable suggestions or practical steps derived from a researcher's findings, aiming to address identified problems, improve situations, or guide future research.
31. **Strategic Action Plan** - outlines the specific steps and resources needed to achieve research goals, ensuring that research efforts are aligned with broader strategic objectives.
32. **Person Responsible** - an individual who will be responsible in acting possible action plan in addressing the problems encountered in the project.
33. **Resources Required** - materials available in acting possible action plan in addressing the problems.
34. **Potential Risks** - refers to an uncertain event or condition of the strategic action plan in addressing the problems encountered.

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