



**QUARTERLY RESEARCH PROGRESS REPORT
SECOND QUARTER (April – June 2022)**

Research Title: Assessment of Climate Smart Agriculture in Hilly Upland Areas

I. Program/Project/Study Objectives

Project Objectives:

Project Title: Assessment of Climate Smart Farming Scheme in Hilly Upland Areas

Objectives:

1. *To assess and evaluate the influence of the different double hedgerows combinations on the soil erodibility.*
2. *To assess the physic-chemical and biological properties of the soil on the influence of IMO6, EM, and Vermicast application in the contour hedgerows on the degraded upland.*

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

III. Highlights of accomplishments within the quarter

A. Targets for the quarter

1. Regular observation on the experimental site.
2. Continue analysis for Nitrogen (N) and phosphorous (P) from final soil samples of (adlay cropping).
3. Furrowing of the contour plots.
4. Grinding of tissue samples.
5. Make Lactic Acid Bacterial Serum (LABS) for Effective Microorganism (EM) fertilizer.
6. Continue finalizing data.

B. Highlights of accomplishments

1. Perform maintenance and cleaning through weeding to the treatment plots and hedgerow areas.
2. 37 of final soil N samples from adlay cropping were analyze.
3. Soil phosphorous (P) analysis continuation.
4. Continue furrowing of the contour plots.
5. Adlay (coix lacryma jobi) processing and grinding tissue samples for tissue analyses.
6. Harvested lactic acid bacterial serum (LABS)
7. Encode and analyze data for adlay cropping (plant parameters, soil analyses and soil erodibility)

IV. Physical Report of Operation

A. Research Program

	Particulars/Name and Brief Description of Utilized/ Commercialized Technologies	Number
Outcome Indicator		
1. Number of research outputs utilized by the industry or by other beneficiaries	N/A	
Output Indicator		
1. Number of research outputs completed within the year	N/A	
2. Percentage of research outputs published in internationally-referred or CHED recognized journal within the year	N/A	

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. Technology Invention(s)	N/A				
B. New Information	N/A				

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

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
N/A									

V. Issues, Problems, and Recommendations

1. Some laboratory analysis were delayed due to insufficient water supply in NARC soil analytical laboratory since water connections are damaged by typhoon agaton. Unstable/inconsistency of water supply can impair water distillation unit and water is one of the primary need in laboratory analysis such as Nitrogen (N).
2. Delayed delivery of laboratory chemicals and other materials to be used in analysis due to problems encountered in procurement process, such as; filter paper and sulfuric acid.
3. Unable to analyze Nitrogen (N) because of insufficient/ inconsistent water supply and Phosphorous (P) due to lack availability of filter papers.

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Endorsed by: DHENBER C. LUSANTA
OIC, Eco-FARM

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