



COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY

**AGRICULTURAL INFORMATION FOR RICE FARMERS
IN PALAUIG, ZAMBALES**

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A Capstone Project

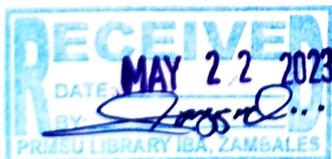
In partial Fulfillment of the Requirements

For the degree of Bachelor of Science in Information Technology

College of Communication and Information Technology

President Ramon Magsaysay State University

Iba, Zambales



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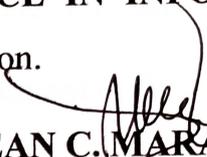
Republic of the Philippines
President Ramon Magsaysay State University
Iba, Zambales



College of Communication and Information Technology

APPROVAL SHEET

This study entitled “Agriculture Information for Rice Farmer in Palauig, Zambales” prepared and submitted by Louie B. Cabal, Zafar Ricky P. Datu, Christian Jay F. Dela Rosa, Sheila Mae M. Eclevia, and Lailani C. Laca in partial fulfillment of the requirements for the degree of **BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY** are hereby recommended for oral examination.


MELOJEAN C. MARAVE, MSIT
Adviser

Approved by the Panel of the Oral Examiners on February 2023 with a grade of

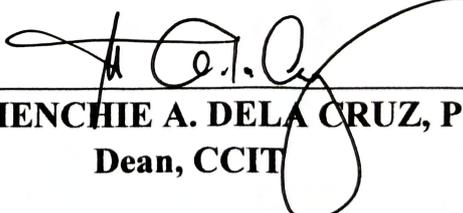

ISRAEL M. CABASUG, MSCS
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DARWIN M. MORAÑA
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Accepted and approved in partial fulfillment of the requirements for the degree of **BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY**.

19 MAY 2023
Date Signed


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EXECUTIVE SUMMARY

Rice production provides food and economic security to nearly half of the world's population. Rice agriculture makes extensive use of both land and herbicides and pesticides. Rice fields, on the other hand, provide water for animals such as amphibians. Some species may, in turn, provide ecosystem benefits to farmers operating in the rice agroecosystem.

The researchers created a web-based information dissemination system for the Municipal Agriculture Office, where extension workers can post or update farmers on upcoming or existing activities. Farmers also get information by visiting the website, which will considerably benefit rice farmers in improving their rice-growing abilities. The website's functions include informing farmers about rice growing, such as the correct fertilizer inputs that will benefit farmers in the future, as well as keeping them informed about important events such as training or seminars to attend. With 156 respondents, extension workers and rice farmers assessed the system quality and degree of acceptance of the Agriculture for Local Rice Farmers in Palauig, Zambales, using the ISO/IEC 25010:2011 measure. According to the overall results, respondents rated the system's web application quality as "excellent," with a grand mean of 3.95, and its degree of acceptability as "highly acceptable," with a grand mean of 3.55.

The researchers recommended that the Municipal Agriculture Office in Palauig, Zambales, implement a paperless approach to improve farmers' accessibility to accurate and timely information. Clear instructions and assistance are required to assist users in understanding how to use the system effectively and avoid errors. Higher-ups or designated



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personnel must perform or engage an IT professional to maintain the system in the event of equipment failure. IT specialists should be employed to manage the Municipal Agriculture Office's database and website, and the system should be improved to fulfill comparable and more relevant functions and features. Future researchers may expand the work to broaden its coverage.