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RESEARCH PROPOSAL

I. BASIC INFORMATION

Project Title	: Adlay Production: A Climate Change Adaptation and Mitigation Strategy for Marginal Lands
Project Leader	: Nello D. Gorne
Study Leaders	: Ed Allan L. Alcober Luz G. Asio Mariedith I. Bagarinao Dionesio M. Bañoc Loreme S. Cagande Ulysses A. Cagasan Wences Rey B. Dela Peña Berta C. Ratilla
Implementing Unit	: Department of Agronomy
Collaborating Agency	: Local Government Units
Location	: Baybay City, Leyte
Duration	: Two years
Proposed Budget	: PhP 1,482,477.26
Discipline	: Agronomy
Classification	: Applied

II. TECHNICAL INFORMATION

A. Rationale

The production of crops is essential for the survival of humankind. However, a number of factors have to be considered to sustain such production to supply the needs for generations to come. The choice of appropriate species, variety and cultural management practices as well as considerations of the edaphic and climatic factors can greatly improve the productivity of crops.

The production of staple crops (rice and corn) may no longer be able to meet the food and feed requirements in the coming years as the area of prime agricultural lands have been decreasing due to conversion into residential, commercial and industrial areas. Thus, the utilization of marginal lands may be an option to offset the impact of reduced farmlands. However, such areas require higher inputs to make them productive especially for rice and corn. Moreover, occurrences of adverse weather conditions can aggravate the situation. Drought condition will reduce the supply of water needed in the production of rice while flooding will affect the growth and development of corn. There is a need therefore to look for an alternative crop that can adapt to such adverse conditions.