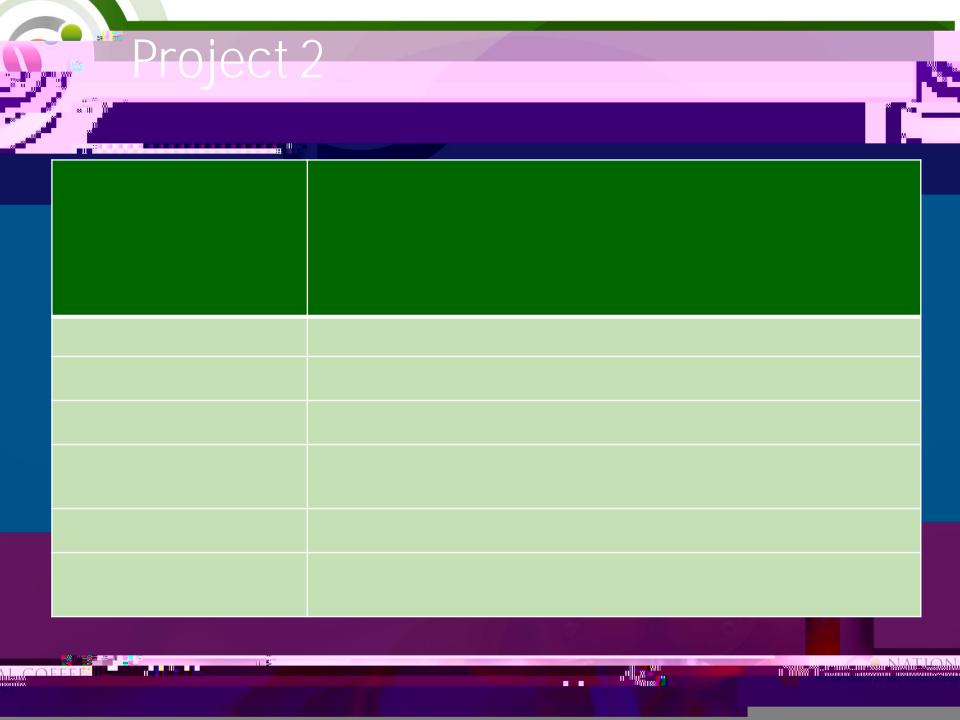


Pilot-test the tissue culture growth cabinet for enhanced mass propagation of embryos of coffee and makapuno.

I THE THE THE PROPERTY OF THE PARTY OF THE P

Design



To be able to develop molecular-based method for determining the authenticity of green beans, roasted and ground coffee.

Determine the best DNA extraction protocol from green beans, roasted and ground coffee;

Optimize the PCR protocol using DNA from green beans, roasted and ground coffee;

Evaluate the PCR success of universal primers for differentiating *Coffea* species from other plant contaminants;

Demonstrate the utility of the method in determining the authenticity of green beans, roasted and ground coffee; and

Determine the authenticity of green beans and roasted beans sold in the market.



Project 3

MISSUM PEFF

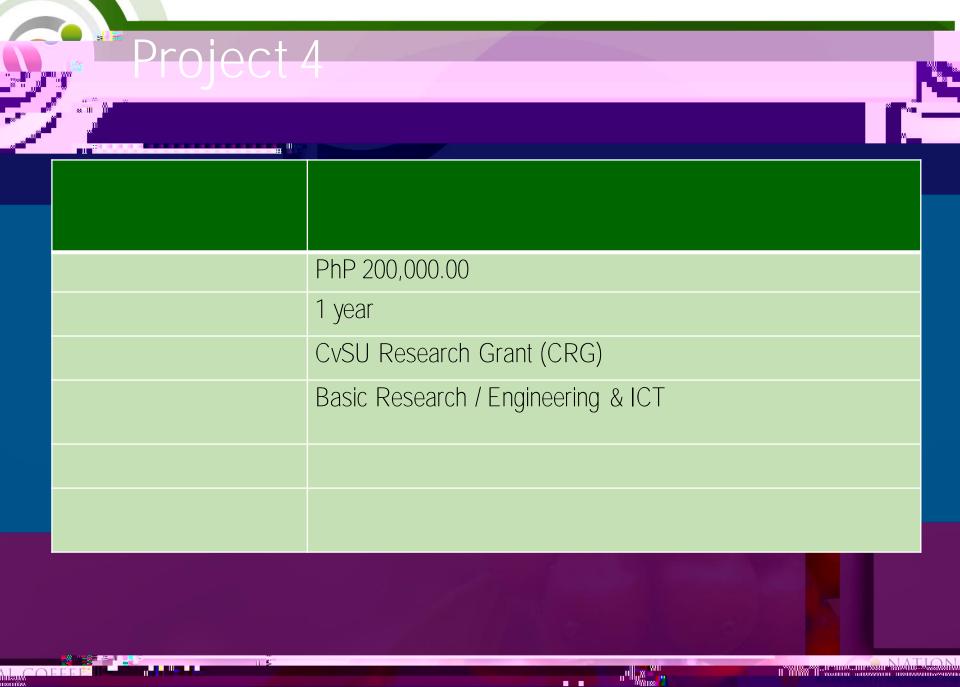
PhP 2,962,672.00
1 year
DOST - PCAARRD
Non R&D
NADDEA A ALL
NCRDEC, CvSU
Project Leader: Gerry Castillo
Project Staff : Mira Magcawas, Lorna Matel, Al Eugene Torres
TULLES

II THE THE MILE WILL BE TO SEE THE WALL IN THE SECOND OF T

Enhance the food value chain for coffee in the CALABARZON towards improving agricultural productivity, competitiveness, efficiency and inclusive food sustainability.

Enhance the food value chain for coffee in the CALABARZON by implementing key approaches to strengthen the network of stakeholders and processes involved in the production and value adding activities towards food resiliency in the new normal; Increase the volume of production of coffee by 30%; Improve the quality of produce of the farmers; and Ensure a sustainable food value chain for coffee in the region.

Handson The Hand The Sail Should

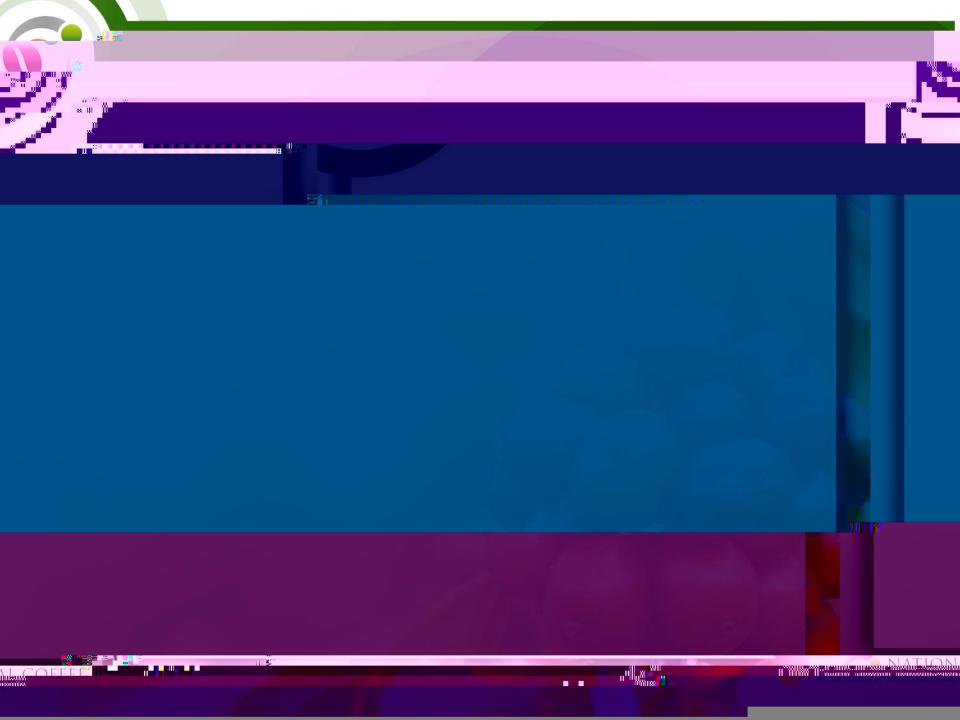


Develop optimization models for a more profitable coffee-based production system.

Determine the advantages and disadvantages of mono-cropping and intercropping systems of coffee production;

Develop an optimized profitable coffee intercropping production model; and

Create a model for a profitable and sustainable lowland arabica coffee production.



Develop ergonomically-designed laboratory-scale coffee huller and dryer.

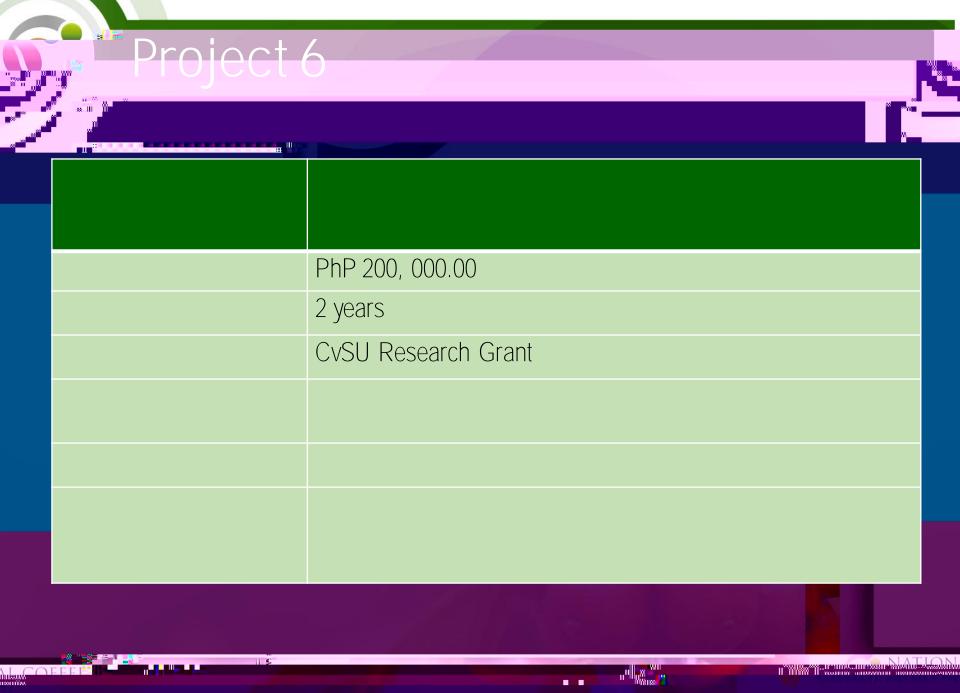
Design and develop coffee processing equipment such as dryer and huller;

Evaluate the performance of the developed equipment;

Optimize the performance of the equipment using computational engineering; and

Determine the economic viability and acceptability of using the machine.

Hand II marinis wan swan



The general objective of the project is to develop an integrated information systems for R&E operations of the NCRDEC.

Design and develop information systems for visitor's database and training activities assessment;

Design and develop a GIS-based map of coffee demonstration and experimental areas; and

Test and evaluate the usability and performance of the developed information systems.

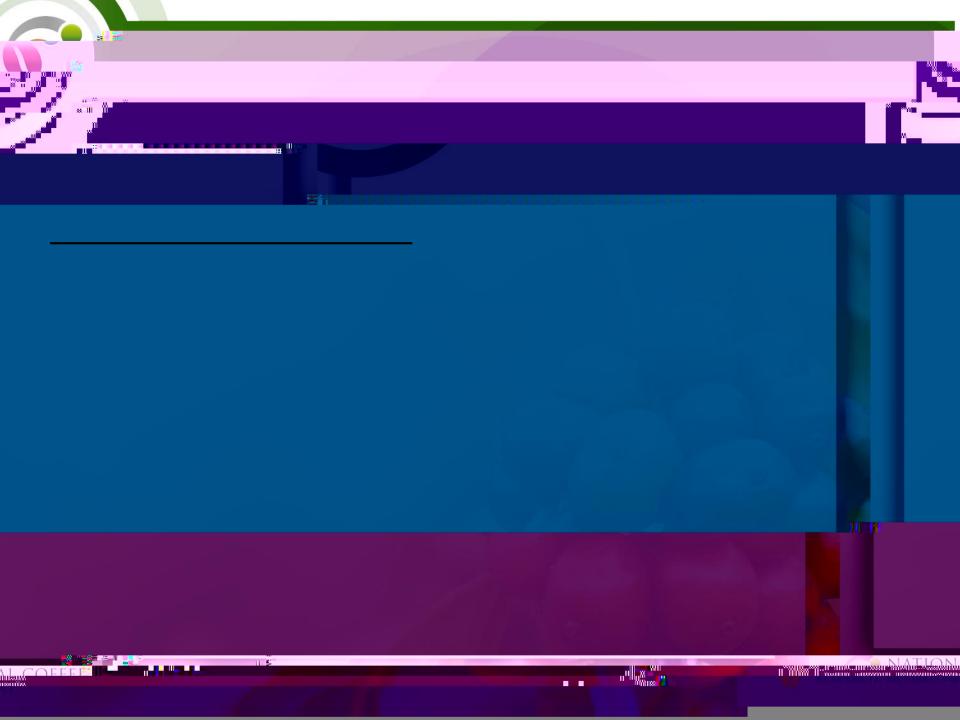


MISSON FEE

PhP 200,000.00
2 years
CvSU Research Grant
Biodiversity and Environmental Conservation
NCRDEC, CvSU
Project Leader: Al Eugene L. Torres Project Staff: Kris Rowell S. Garcia, Gerry M. Castillo, Antonette Jean L. Magcamit, Ric Karl T. Flores, Maowel A. Villanueva, Mark Jayvee M. Mojica, Gee Jay C. Bartolome

Hull Walls

I THE TOURS OF THE PROPERTY OF



Design and develop a laboratory-scale grading machine and storage equipment for green coffee beans.

fabricate a prototype grading and storage equipment for green

II III Maria II maria III maria Shaha -



MINUM OFFE

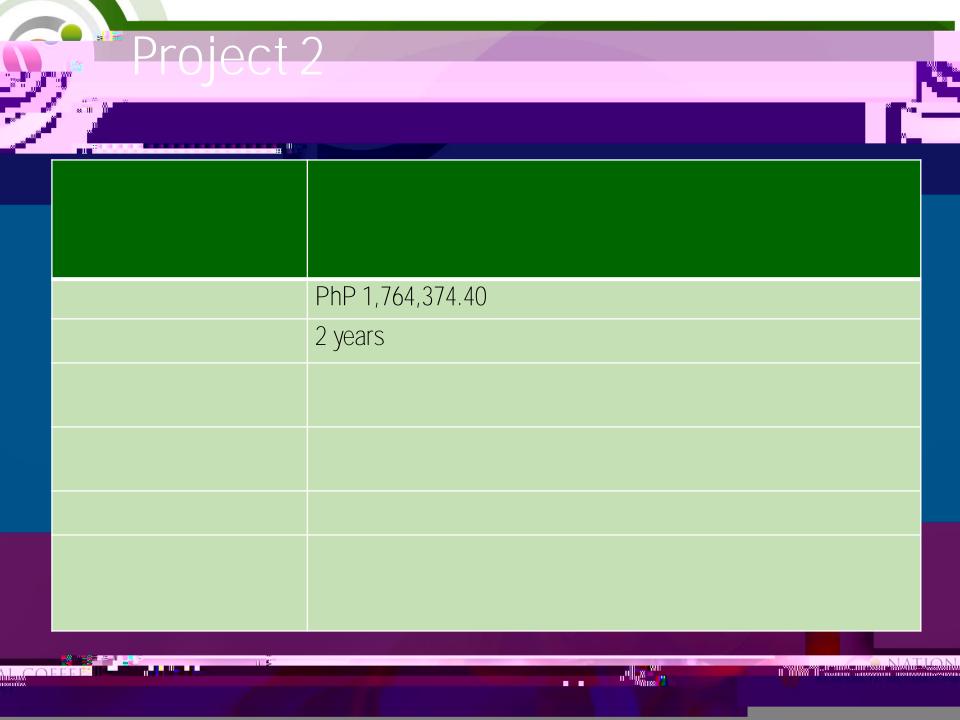
PhP 260,000.00
2 years
ACDI/VOCA PhilCAFE Project
Basic Research/ Agri-Fisheries and Food Security
NCRDEC, CvSU
Project Leader: Antonette Jean L. Magcamit Project Staff: Maowel A. Villanueva & Danilo H. Mojica

Investigate the performance of seedlings of various coffee genotypes grown in different containers under nursery conditions.

determine the growth performance of the various coffee genotypes as affected by the type of seedling containers under nursery conditions.

determine the quality index of the various coffee genotypes using different seedling containers under nursery conditions conduct cost and return analysis of using various seedling containers

Halley Transcrinisms and many



Develop a small-scale coffee processing equipment for the NCRDEC.

design and develop coffee processing equipment such as sorting machine, automated depulper, blending machine, and packager for small-scale operation;

test and evaluate the performance of the developed equipment; pilot-test the coffee dryer and huller to coffee processors;

optimize the performance of the equipment using computational engineering;

determine the economic viability of using the machine; and develop IEC materials and secure applications for patents of the developed machines.





Project 3

MISSUM OFFE

PhP 353,515.45
2 years
ACDI/VOCA PhilCAFE Project
Basi20.025 Tf25 Tf25 T(e)]TJET@MC /P 21.27 14.025 Tf1 0 (

II WAR II II WALLING WALL WALLE WALLE WALLE WALLING WA

Assess the effects of the endogenous microorganisms during wet- fermentation of Arabica coffee varieties on the cup quality and profiles.

assess the number of culturable microbial groups using a corresponding selective medium

characterize the selected lactic acid bacteria (LAB) and yeast isolates as a potential starter culture candidates;

identify the candidate best starter cultures by analysis of 16S rRNA gene and ITS region sequences; and

determine the effect of starter cultures in wet-fermentation process on the cup quality and profiles of Arabica coffee.

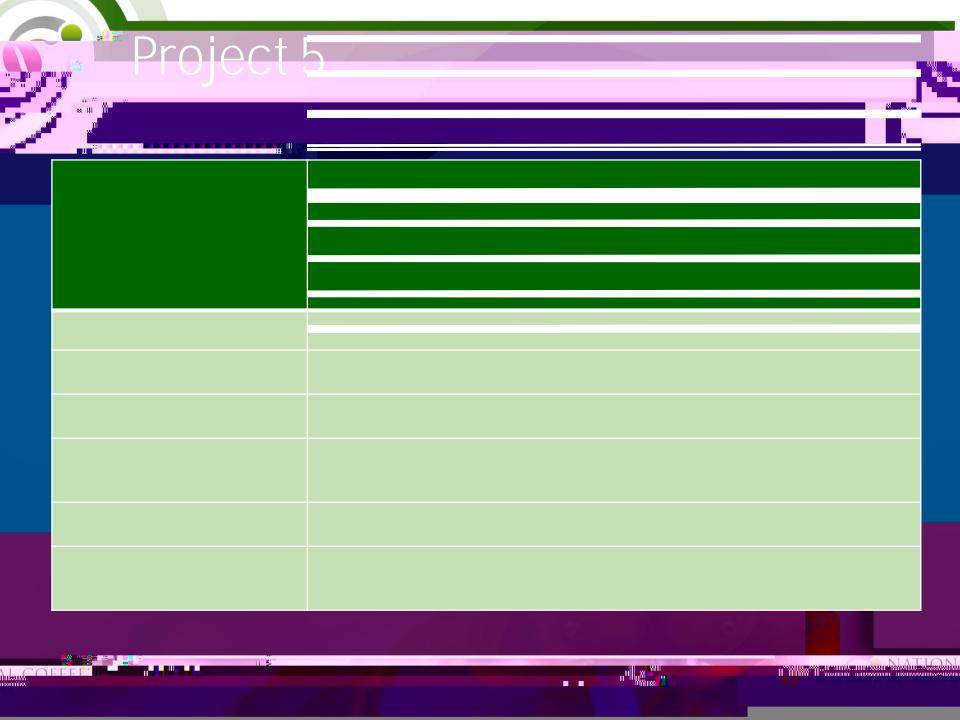
Halley Transcrine with Swylin

Project 4

MILSON HOSTIMA

- II - I		
	PhP 5,337,979.00	
	2 years	
	ACDI/VOCA PhilCAFE Project	
	Non R&D/ Extension	
	NCRDEC, CvSU	
	Project Leader: Miriam D. Baltazar & Antonette Jean L.	
	Magcamit	
	Project Staff : Gerry Castillo, Al Eugene Torres, Danilo H.	
	Mojica	





NCRDEC thru scientific publication of the Philippine Coffee Journal

perform an assessment of various POs in Regions 4 and 6; develop a website for the online submission of manuscript and online version of the journal;

acquire an e-ISSN of the journal; and

produce two printed and online publication issues.

Project 6 PhP 1,300,000.00 II MIN II manin mamin mananin

Upgrade the existing NCRDEC nursery facilities.

evaluate the existing coffee nursery of the Center; design and improve the features of the existing coffee nursery; construct a state-of-the-art nursery; and prepare an operational plan of the coffee nursery

