

## Major Programs and Projects Categorized in Accordance with the Five Key Results Areas Under E.O. No. 43, s. 2011

Item No.	Project Title	Brief Description/Objectives	Beneficiaries	Implementing Agency	Project Duration		Actual Y 2013 Budget Released	Status	KRA
					Start	End			
1	Compendium on Dengue in the Philippines by <u>Dr. Nelia P. Salazar</u> , RITM	(1) To compile all published and unpublished work on dengue in the Philippines; (2) To update knowledge and advances in research on dengue; (3) To promote information sharing and dissemination of public health information; (4) To identify gaps in knowledge for research, capacity building and training; (5) To advocate for support and involvement of all stakeholders in dengue prevention and control.	Researchers, clinicians, disease control/vector control personnel, program managers, teachers and students in tropical medicine and the health sciences, general readership	Research Institute for Tropical Medicine (RITM)	16-Apr-12	15-Apr-13	549,213.25	Completed	Integrity of the environment and climate change adaptation and mitigation
2	Anti-Dengue IGY for Diagnostic and Therapeutic Applications by <u>Dr. Gracia Fe B. Yu</u> , UP Manila	To screen and evaluate the potential of plant materials against dengue.	Health Sector	UP Manila	2-May-12	1-May-14	892,500.00	Ongoing	Integrity of the environment and climate change adaptation and mitigation
3	Genomic Surveillance and Intervention on Dengue Virus by <u>Dr. Francisco M. Heralde</u> , UP Manila	Website on Genomic Surveillance of Dengue Virus, developed and accessible online; Involvement in the pilot-testing of dengue teaching materials; Assistance to student researchers	General public (Filipino people)	UP Manila	16-Apr-12	15-Apr-15	744,746.25	Ongoing	Integrity of the environment and climate change adaptation and mitigation
4	Development of Sterile Insect Technique for Dengue Mosquito Vector, <i>Aedes aegypti</i> using Gamma Irradiation by <u>Glenda B. Obra</u> and Sotero S. Resilva, DOST-PNRI	First trial, pupae consisting of both males and females were irradiated. Sterility study showed that irradiation of pupae at 25 Gy did not prevent adult female mosquitoes in laying eggs. Complete sterility was observed from female irradiated with 50Gy dose	Communities in urban and suburban areas, health sector, researchers	DOST-Philippine Nuclear Research Institute (PNRI)	1-May-12	30-Apr-14	761,025.00	Ongoing	Integrity of the environment and climate change adaptation and mitigation

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5	Laboratory and Field Evaluations of Water Bug, <i>Diplonychus rusticus</i> (Hemiptera: Belostomatidae) for the Control of Dengue Mosquito, <i>Aedes aegypti</i> (Diptera: Culicidae) by <u>Dr. Pio A. Javier</u> , UPLB	This new study is envisioned to document the voracity of the predator on different larval instar of dengue mosquito wrigglers, mass produce the predator in the laboratory and develop release strategies to efficiently reduce the population of wrigglers in the field. It is hoped that the project could significantly contribute in reducing dengue infection throughout the Philippines. The following are the specific objectives of the project: (1) To study the biology and behavior of water bug, <i>Diplonychus rusticus</i> , (2) To establish the functional response of the different stages of water bug on the different larval instars of <i>A. aegypti</i> , (3) To develop efficient mass rearing technique for water bug, (4) To develop release strategies for efficient control of dengue mosquito, and (5) To evaluate the effectiveness of the water bug in dengue hot spot areas in Quezon City.	Filipinos living in dengue infection-prone areas	UP at Los Baños	1-May-12	30-Apr-14	594,616.25	Ongoing	Integrity of the environment and climate change adaptation and mitigation
6	Socioeconomics of Dengue by <u>Dr. Judilynn N. Solidum</u> , UP Manila	To assess the gaps in the management of programs against dengue in the Philippines. Specifically, to (1) identify the level of knowledge, attitudes and practices of chosen communities to dengue	General public	UP Manila	16-Apr-12	15-Apr-14	744,746.25	Ongoing	Integrity of the environment and climate change adaptation and mitigation

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7	Extraction, Characterization and Bio-Assay for Larvicidal Activity of Some Philippine Medicinal Plants by <u>Dr. Rosalinda C. Torres</u> , DOST-ITDI	(1) To undertake crude extraction and extract essential oils from some Philippine medicinal plants; (2) To determine the larvicidal activity of the crude extracts and essential oils; (3) To undertake phytochemical screening of the crude extract; (4) To conduct polarity-based fractionation of the crude extracts and determine larvicidal efficacy of the fractions; (5) To isolate and characterize further the most active fraction of the plant which exhibited the most significant activity; (6) To analyze the essential oils for physico-chemical properties and chemical composition by chromatographic methods; (7) To develop larvicidal product(s) that can be field tested on a wider scale; (8) To conduct product analysis and shelf-life/stability testing; (9) To conduct field trial testing of the products.	General public	DOST- Industrial Technology Development Institute (ITDI)	16-Apr-12	15-Apr-14	709,571.00	Ongoing	Rapid, inclusive, and sustained economic growth
8	Comprehensive Risk Assessment of the Physical, Social and Economic Impacts of Tropical Cyclones by <u>Dr. Leoncio A. Amadore</u> , PAGSASA	The study aims to promote a comprehensive approach to risk assessment and thus enhance the effectiveness of efforts to reduce the loss of lives and damage caused by natural disasters., Specifically, the study will 1) develop a comprehensive, fast and objective method of assessing typhoon damage/risk, GIS-based hazard and vulnerability analyses, 2) validate the typhoon damage scale of PAGASA to serve as basis for typhoon damage estimation and vulnerability curve formation and formulation of typhoon category classification; and 3)develop a tropical cyclone risk assessment methodology to climate change adaptation formulations.	Weather forecasters, general public, LGU and policy makers	DOST-Philippine Atmospheric, Geo-physical and Astronomical Services Administration (PAGASA)	15-Dec-11	14-Dec-13	562,326.00	Ongoing	Integrity of the environment and climate change adaptation and mitigation

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9	Volatile Organic Chemical Profile of Eggplant ( <i>Solanum melongena</i> ), Tagbak ( <i>Koloratia elegans</i> ), and Kakawate ( <i>Glyricidia sepium</i> ) with Implications to Pest Management of Selected Major Pests of Rice, Eggplant and Tomato by <b>Dr. Susan May F. Calumpang</b> , UPLB	The general objective of the study is to explore uncharted frontiers in rice, eggplant and tomato pest management, a research gap urgently identified in particular for eggplant host plant resistance studies. Specifically, the study wishes to: 1) Determine the volatile organic chemical (VOC) profile of tagbak ( <i>Kolowratia elegans</i> ) and kakawate ( <i>Glyricidia sepium</i> ) to validate farmer knowledge on the usefulness of these plants in insect pest management in rice and tomato production, 2) Investigate the VOC profile of various eggplant varieties with varying susceptibilities to eggplant fruit shoot borer ( <i>Leucinodes orbonalis</i> ) and relate the presence of these chemicals to oviposition preference of this major insect pest.	Plant breeders and farmers	UP at Los Baños	5-Mar-12	4-Mar-14	596,432.00	Ongoing	Integrity of the environment and climate change adaptation and mitigation
10	Bioecology of Scirtothrips dorsalis Hood (Thysanoptera:Thripidae) In Mango by <b>Celia R. Medina</b> , UPLB Foundation, Inc.	This project aims to generate basic information on <i>S. dorsalis</i> being an invasive pest of mango. The intrinsic and extrinsic factors that contribute to its persistence will be identified. The localization of different population from several mango growing areas as influenced by its parthenogenetic trait will be determined as well as the biology and behavior of <i>S. dorsalis</i> on different hosts.	Philippine Mango grower industry, consumers	UP at Los Baños	15-Apr-13	14-Apr-15	644,999.00	Ongoing	Integrity of the environment and climate change adaptation and mitigation

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11	Paleomagnetism of the Amnay Ophiolite: Constraining the Translation History of a South China Sea Oceanic Fragment by <u>Carla Dimalanta</u> , UPLB Foundation, Inc.	The project aims to provide quantitative controls on the paleoposition of the Amnay Ophiolite to reconstruct its translation history. Data from this research will be an important contribution to the very limited paleomagnetic information we have in the country. Such information can greatly improve tectonic reconstruction studies which are a necessary tool for various geological investigations including mineralization potentials and geohazards investigations.	Geologist, scientists, researchers,	UP at Los Baños	15-Apr-13	14-Apr-14	658,319.25	Ongoing	Integrity of the environment and climate change adaptation and mitigation
12	Properties and Durability of Engineering Bamboos by <u>Dr. Marina A. Alipon</u> , DOST-FPRDI	The general objective of the study is to hasten the development of the bamboo industry through the application of cost-effective adhesives and preservatives for engineered bamboo. Specifically, the study would aim at: a) determining the properties such as physical (moisture content, relative density, shrinkage and swelling), bonding, strength (abrasive, hardness, static bending, compression), formaldehyde emission, and durability of bamboo (kauayan tinik and giant bamboo) glued with different kinds of adhesives, b) determining the properties and durability of the above glued samples treated with various preservatives, c) determining the cost-benefits of producing treated engineered bamboo products; and d) recommending cost-effective adhesives and treatment combination for engineered bamboo.	Housing and construction industries	DOST- Forest Products Research and Development Institute (FPRDI)	1-May-12	30-Apr-14	519,808.75	Ongoing	Rapid, inclusive, and sustained economic growth

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13	Taxonomy of Philippine Jumping Plant-Lice (Hemiptera: Psylloidea) with emphasis on the Immature Stages by <u>Mr. Mario V. Navasero</u> , UPLB	The scope of the work will cover other areas that had not been done particularly on the taxonomy of the immature stages, investigation on the wax secreting organs through the electron microscopy and collection of associated natural enemies.	Applied researchers in crop protection, farmers, researchers, teachers and students.	UP at Los Baños	1-May-12	30-Apr-14	533,871.88	Terminated	Rapid, inclusive, and sustained economic growth
14	Support to Quality Project Management (Monitoring & Evaluation), RDMD	To measure changes from baseline conditions to desired output and outcome. It focuses on the measurement of the output of processes, activities and input. Monitoring serves to alert the Project Management Office to problems in performance, provides option for connective actions, and helps demonstrate accountability	The NRCP, the government, the taxpayers, the general public		1-Jan-13	31-Dec-13		Ongoing	Transparent, accountable, and participatory governance
15	Archives and Memorabilia Project of NRCP by <u>Dr. Milagros C. Guerrero</u> , RIDD and FAD		NRCP and NRCP members, researchers, students				327,000.00	Completed	Transparent, accountable, and participatory governance
16	Towards the Development of a Framework for the Continuing Educational and Professional Development of mathematics Teachers Leading to a Mathematics Teacher Education Program Continuum by <u>Dr. Catherine P. Vistru-Yu</u> , ADMU	The proposed research aims to: study the different formats and modalities of continuing education programs for mathematics teachers that exist in the Philippines and in some selected countries such as Singapore, UK and the US; Identify the best practices and features of these programs as well as the problems and poor aspects of these programs; based on the information on the first and second objectives, determine the major elements needed for the framework and cope up with a draft of the framework; and create a Mathematics Teacher Education Program Continuum that maps out a clear education, professional and career path for mathematics teachers in grades K-12	Department of Education, Mathematics teachers, Students	Ateneo De Manila University (ADMU)	2-May-12	1-May-14	522,503.75	Cancelled - did not pushed through	Rapid, inclusive, and sustained economic growth

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17	Standardized anti-hyperuricemic product(s) from Philippine Plants by <u>Dr. Christine C. Hernandez</u> , UP Diliman	Current researches are geared towards discovery of drugs with favorable toxicology profile, high bioavailability, and more potent and longer-lasting hypouricemic action than allopurinol. In the previous project funded by NRCP, isolation and identification of a novel xanthine oxidase inhibitors from <i>A. leptopus</i> and partially purify an isolate from <i>M. pudica</i> , both of which exhibited promising inhibitory action. In this project, with respect to <i>M. pudica</i> , will aim to 1) purify further the isolate, 2) determine the structure, and 3) confirm its xanthine oxidase inhibitory action. After which, will determine the hypouricemic activity of <i>M. pudica</i> and <i>A. leptopus</i> extracts and pure isolates in vivo using potassium-oxonate pretreated mice. Toxicity and mutagenicity effects using vitro assays will also be conducted to establish the extracts and isolates safety. Finally pure isolates will be used as biomarker in standardizing the plant extracts.	Pharmaceutical industry, people suffering from gout, arthritis	UP Diliman	1-Jun-13	31-May-14	558,665.95	Ongoing	Rapid, inclusive, and sustained economic growth
18	Biological Control of the broad mite, <i>Polyphagotarsonemus latus</i> (Banks) by the predatory phytoseiid mite <i>Paraphytoseius orientalis</i> (Narayanan), submitted by <u>Ms. Marcela Navasero</u> , UPLB	The goal of the project is to generate basic biological foundation for IPM research on the broad mite pest <i>P. latus</i> by the predatory phytoseiid, <i>P. orientalis</i> on solanaceous crops and strawberry.	Researches and students in entomology and agriculture	UP at Los Baños	1-Feb-13	31-Jan-15	533,871.88	Ongoing	Rapid, inclusive, and sustained economic growth

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19	Quantitative and Qualitative Analyses of the Bacterial Microbiota of Tilapia ( <i>Oreochromis niloticus</i> ) Cultured in Earthen Ponds as Tool for Investigating Emerging and Re-emerging Diseases of Tilapia on the Philippines <b>Dr. Rolando V. Pakingking, Jr.</b> , SEAFDEC	This study aims to address the current problem that besets the Philippine tilapia industry particularly in Negros Occidental where intensive culture of tilapia has been recently instituted. To acquire quantitative and qualitative baseline information on bacteria problem of tilapia as springboard in formulation, pragmatic prevention and control strategies that will make Philippine tilapia industry in Negros Occidental, sustainable	Fisherfolk, Philippine tilapia industry, tilapia consumers	Southeast Asian Fisheries Development Center (SEAFDEC)	15-Mar-13	14-Mar-15	761,083.88	Ongoing	Rapid, inclusive, and sustained economic growth
20	Analysis of Factors that Influence the Development of Value-adding Products from Underutilized Crops in Different Agroecosystems of the CALABARZON Area <b>Dr. Amparo M. Wagan</b> , UPLB	This project proposal aims to analyze the factors that enhance or deter the development of value-adding products from selected underutilized crops in the Southern Luzon area.	Local farmers and communities in CALABARZON areas, consumers	UP at Los Baños	16-Mar-13	15-Mar-14	683,338.23	Ongoing	Rapid, inclusive, and sustained economic growth
21	Cytotoxicity testing utilizing the sensitive allium test and histo-pathologic evaluation of selected medicinal plants with antibacterial potential in Iloilo" by <b>Dr. Gerard Penecilla</b> , Western Visayas University		The poor people suffering from infectious diseases who cannot afford antibiotics, pharmaceutical industry	West Visayas State University (WVSU)	1-Mar-13	21-May-14	364,360.50	Ongoing	Rapid, inclusive, and sustained economic growth
22	A Henstock Approach to the characterization of the Ito Stochastic Integral by <b>Dr. Emmanuel Cabral</b> , ADMU	The project aims to extend the previous work done the by proponent on stochastic integral of a stochastic process (L-martingale and AC property). The project is under basic research on pure mathematics. The stochastic analysis is a very useful tool in many applied areas such as mathematical finance, modeling climate change. The theory of stochastic integration using the Henstock approach offers an alternative approach to stochastic integration, which have its own advantages.	Academics and professionals engage in modeling, classical stochastic integration, students, researchers	Ateneo De Manila University (ADMU)	2-Feb-13	1-Feb-14	196,200.00	Ongoing	Rapid, inclusive, and sustained economic growth



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23	Development of Optimization Model for Automated Matching of CO <sub>2</sub> Sources and Sinks in Carbon Capture and Storage (CCS) Systems by <u>Dr. Raymond Tan</u> , DLSU	The objective of the project is to develop an optimization model for the computer-aided planning of CO <sub>2</sub> allocation in CCS systems. Such a model is essential in the planning and eventual deployment of CCS on a commercial scale, as it can identify how to maximize the extent of CO <sub>2</sub> capture from a given set of emission sources	Philippines being a vulnerable country on climate change, researchers, environmentalists	De La Salle University (DLSU)	1-Jun-13	31-May-14	292,453.00	ongoing	Integrity of the environment and climate change adaptation and mitigation
24	Digitization of endangered musical collection by <u>Dr. Ramon P. Santos</u> , UP Diliman	The general objective of the study is to contribute to the growing interest in ethnomusicology, musicology and cultural resources management by making endangered musical collection available through accessible channels while upholding utmost protection to the corpus and integrity of the original research documents from and of musicologists and musicians. Specifically the study wishes to: 1) Convert analogue music materials from UPCE collection and other depositions that will result to at least 5,000 digitized records (audio, photo, notes an/or scores) and 2) improve the digitization protocol to be able to accommodate collections that are not originally from UPCE collection, hence was a product of different recording protocol.	Researchers in humanities, ethnomusicologist, musiicologist, musicians	UP Dlliman	28-May-13	27-May-15	802,595.00	Ongoing	Transparent, accountable, and participatory governance

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25	Attitudes and conceptions on climate change: Drawing implications for Developing an Environmental Literacy Program for Basic Education by <u>Dr. Maricar S. Prudente</u> , DLSU	The proposed study aims to determine existing conceptions on climate change among five groups of community members (students, adults, industry workers, school personnel, and community officials) living in three different settings (rural, urban, coastal). It will also investigate their attitudes towards the climate change problem. The study will find out if such understanding is related to their attitudes to act in ways that are keeping with the adaptive measures taken by the community to help address this environmental problem.	Students, adults, industry workers, school personnel, and LGUs community officials living in three different settings (rural, urban, coastal).	De La Salle University (DLSU)	15-Feb-13	31-Oct-13	284,869.05	Completed	Integrity of the environment and climate change adaptation and mitigation
26	Vegetation analysis of areas affected by mine tailings in Benguet and vicinity, submitted by <u>Dr. Virginia C. Cuevas</u> , UPLB	It is important that we study the vegetation present in the areas affected with mine tailings. The succession process occurring in the mined sites are important in understanding how the study in the area as well as other mined sites can be rehabilitated. Conversely, identifying and studying the plant species present in the area and how these contribute to the succession process is important to establish baseline information.	Mine tailing affected areas, mining industry, policy makers, researchers, communities, families living in mining areas	UP at Los Baños	1-Feb-13	31-Jan-15	522,739.70	Ongoing	Integrity of the environment and climate change adaptation and mitigation
27	Diversity and ecology of Acanthocephalan parasites freshwater fishes from the seven lakes of San Pablo City, Philippines and their potential as bioindicators of heavy metal pollution BY <u>Dr. Vachel Gay V. Paller</u> , UPLB	It aims to update the list of acanthocephalan fauna of the Philippine freshwater fishes and to generate baseline information on their ecology and potential use as bioindicator of heavy metal pollution in aquatic ecosystems.	Consumers, general public	UP at Los Baños	1-Feb-13	31-Jan-15	635,158.15	Ongoing	Integrity of the environment and climate change adaptation and mitigation

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28	Disaster Risk Assessment and Climate Change and Adaptation in Upland and Lowland Barangay of Iligan by <u>Dr. Nimfa L. Bracamonte</u> , MSU-IIT	Phase 1 : To determine how prepared are the hard hit barangays of Mandulog (upland) and Hiaplanon (lowland) with respect to their capacities, vulnerabilities, response and adaptive strategies/mitigation relative to disaster risk reduction and management. For Phase 2: To provide knowldge and skills among community stakeholders through trainings. It will attempt to document the disaster preparedness, response and recovery of upland and lower barangays that are hardest hit by flood.	Families, communities in Iligan, local government officials, policy makers, rescuers	Mindanao State University-Iligan Institute of Technology (MSU-IIT)	16-Feb-13	15-Feb-14	674,890.37	Ongoing	Integrity of the environment and climate change adaptation and mitigation
29	Development of a Measure of Transparency for Teacher Education Institutions in the Philippines: Basis for Accountability Check and Public Trust by <u>Dr. Adelaida C. Gines</u> , PNU	The research project aims to develop a vital and reliable measure that can be used by TEIs in making their Public Transparency Project Report Card (PTRC) as a form of accountability check in order to deserve public trust. It could be the first ever dvice to be initiated by TEIs that could serve as a model for other government institutions to gauge their level of transparency. This may be an indicator of their level of trustworthiness.	Teacher Education Institutions, Administrators in Education, Policy makers, teachers	Philippine Normal University (PNU)	16-Feb-13	15-Aug-13	299,817.50	Ongoing (to complete Nov. 15, 2013)	Transparent, accountable, and participatory governance
30	E-Government Services for Overseas Filipino Workers by <u>Dr. Francisco A. Magno</u> , DLSU	The project will address the scholarly gap in studying the problems faced by public agencies in developing effective E-government services for OFW.	Overseas Filipino workers and their families, government offices/agencies, government officials	De La Salle State University (DLSU)	28-Jan-13	27-Jul-13	105,995.00	Completed	Transparent, accountable, and participatory governance
31	Policy Forum, RDMD & FAD	The project aims to formulate policies from the generated results of research undertakings for recommendation to policy makers in order to bring improvement to the sector concerned.	Policy makers, researchers, scientists, academe, S&T community						Transparent, accountable, and participatory governance

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32	Molecular phylogeny, revision and conservation status of the Philippine endemic <i>Argostemma</i> species (Rubiaceae) inferred from multiple nrDNA and cpDNA markers by <u>Dr. Grecebio Jonathan B. Alejandro</u> , UST	This project aims to understand the endemic Philippine species of <i>Argostemma</i> under several aspects and on different levels. Each level bears numerous possibilities for follow-up and parallel projects, so that research on the Philippine Rubiaceae as a whole will profit.	The coffee industry, Researchers, students, scientists, environmental NGOs and legislators	University of Santo (UST)	1-Feb-13	31-Jan-14	855,699.93	Ongoing	Rapid, inclusive, and sustained economic growth
33	Agricultural Waste Products as Potential Sources of Botanical Insecticides Against Philippine Subterranean Termites by <u>Dr. Menandro N. Acda</u> , UPLB	The general objective of the project is to study the feasibility of using agricultural waste products as botanical insecticides against economically important subterranean termites of the Philippines. Specifically the project wishes to: a) extract bioactive components from seeds or peelings of five (5) fruit crops, viz., atis ( <i>Annona squamosa</i> L.), guyabano ( <i>A. muricata</i> L.), lanzones ( <i>L. domesticum</i> Correa), santol ( <i>Sandoricum koetjape</i> Merr.) or sampaloc ( <i>Tamarindus indica</i> L.) using water or organic solvents, b) evaluate the efficacy of selected crude extracts as soil toxicant, repellent or antifeedant against destructive subterranean termites common in the Philippines; and c) identify the bioactive components of effective plant extracts using gas chromatography-mass spectroscopy (GC-MS).	General public, local pest control industry	UP at Los Baños	1-May-12	30-Apr-14	458,700.00	Ongoing	Rapid, inclusive, and sustained economic growth
34	Alternative and Sustainable Sources of Natural Preservative by <u>Erna C. Arollado</u> , UP Manila	The objective of the study is to find a high yield and cheaper alternative source of pectin from jackfruit peel, which may be used in the formulation of drug suspensions and as gelling agent in food products. This is a pilot study on pectin extraction and if a satisfactory yield can be achieved, the obtained pectin will be evaluated for its suspending properties for use in drug formulations and food products	Consumers, food industry, drug industry, researchers	UP Manila	3-Jul-13	2-Jul-14	742,429.40	Ongoing	Integrity of the environment and climate change adaptation and mitigation

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35	Livelihood Projects Using Sustainable Technologies Aquaponics by <u>Chito F. Sace</u>	The general objective of the project is to promote aquaponics technology through AKBAY program of NRCP. Specifically, it aims: 1) to establish a demonstration models of aquaponics for Nile Tilapia & vegetable production, 2) to create efficient cultural practices and cost-effective water management for various aquaponic systems; and 3) to advocate aquaponics technology as smart farming practices.	Families in rural areas, students, teachers, LGUs, farmers, fisherfolk	Central Luzon State University (CLSU)	10-Jun-13	9-Jun-15	769,626.46	Ongoing	Integrity of the environment and climate change adaptation and mitigation

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**LEGEND** Programs/Projects Beneficiaries as Identified in the Applicable Special Provisions

Status of Implementation and Program/Project Evaluated and/or Assessment Report

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