FY 2024 PCAARRD LIST OF GI	RANTS-IN-AID PROGRAMS/PROJECTS	Kou Bosult Aroos (KBA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Ageney	Panafialarias	Start	End	Status 'As of	Total Project	
Program The	Project ritle	Rey Result Aleas (RRA)	Description of ProgramProject/objectives	Expected Output rarget	implementing Agency	Beneficialies	Start	End	December 31, 2024	Cost	GIA
	ADAPTABLITY TRILLAND PERFORMANCE EVALUATION OF PROMISING SUARCONE HYBRIDS IN DIFFERENT AGRO-ECOLOGICAL GROWING CONDITIONS OF THE PHILIPPINES	Integrity of the environment and climate change adaptation and mitigation	The development of suggraves hybridisciones that are national to during the vary important to during outpression of diseases. Drough trans as normality suggravity affects the groups of a suggraves and can reduce production by up to 270%. In the University of the Philipping and disease sub- sequences and can reduce production by up to 270%. In the University of the Philipping and disease sub- sequences and can reduce production by up to 270%. In the University of the Philipping and disease sub- sequences and can reduce production by up to 270%. In the University of the Philipping and disease sub- sets and can reduce production by up to 270%. In the University of the Philipping and disease sub- sets and done parents and promising hybridisciones was selected. Subsequent hybridisciones was advantation from 270° are 2000, have produced an develocitie di promising superant hybridisciones that are stable, high yielding and resident to different stresses.	Publication-Alexan 11 dii paper in 53 Journal magnatusin-Podati promining sugaranae wareher-Podes students to included in the projekt tammes to incolect eli a selection/Pace: University of Southeam Madata, Kabasan, Sagar Regulatory Administration (SR4), La Garaja (SPA LaGeREC)Policy: none	University of the Philippines Los Bañoe (UPLB)	sugarcane farmers researchers, other interested users	01-Jul-23	30-Jun-26	ONGOING	20,358,482	3,411,725.21
	Assessment and management of plant essential heavy metals (PCHM), nutrients and pathogens in vegetable production to enhance soil health and food askey in the Philippines (Managing) heavy metals and soil contaminants in vegetable production to ensure food safety and environmental health in the Philippines)	Integrity of the environment and climate change adaptation and mitigation	The wegstellar production systems in the occurry are intervalsy managed and as prove to a series of backprisal constraints for greatly maps (according) and substationally. The periodica ACMA project on registration production (SMCAV2012002) in subset of the major appair in and and appairs of the series of according to the series of the series of the series of the series of the series of the series of ensures. The series of the series of the undicated on the series of the series of the series of the series of the series of the undicated on the limitation series to be evaluated. The undicated and secretise application of PEM and setting the series of the ser	Adhibition: Adhibition: Mohimum of 1 Scopus or ISI-Indexed publication paper publication; EC materials like press releases, information buildens, malundonial of training materials and modules Databases on soil properties, levels of nutrients and PEMA parts and disease indexerse in major regulated groups in the PMA piperia. Soil, crop, peat and disease management to motical: Soil, crop, peat and disease management to motipate PEMA accumulation, ensure food adhy and environmental health material environmental health have metal-containitiated soils. So conducted and encode works and the protocols on management practices in have present instantions. Social, Lios, and concerned atlandheader of segabable faming: Vaspas State Linknessky (SKI) Uversity of Scopus of Konden y Southern Philippines (USTAP) Berguet State University (SKI) Uversity State University (SKI) Uvers	University of the Philippines Los Babos (UPLB), University of Science and Technology of Socience and Technology of Socience and (USTP), Visayas State University (VSU)	Primary beneficiaries , ros selected vegetable production sites in Claveria, Leya, and Bengua Secondary beneficiaries , ros researchers, students, farmers and LGUs	01-Nov-23	31-Oct-27	ONGOING	14,953,090	2,883,743.00
	Compendum of Developed Agricultural and Fisheries Mechanization Technologies in the Philippines	Integrity of the environment and climate change adaptation and miligation	The Higher Education Institutions/State Universities and Colleges (HEIR/SUCA), Including reasersh and development institutions (RDIe to include PHMAech, PHRIEN, 2005), to more a level are the major series distributions of the phrase approximation of the series of the series of the Memory of the phrase approximation (Series and Series and Series of information on agrificatives commonstella development, including load manufactures are good sources of information on agrificatives commonstella development and the series of the	Publication Publication Patient and Primeries Mechanization Technologies in the CompanyLam of Developed Applications and Primeries Mechanization Technologies in the County Patient ** A comprised with the applied for the companyLam and the DBMS Poolds-The companyLam and the database are the main odgra of this project which will be an importent Information method tabase are the main odgra of this project which will be an importent Information method tabase are the main odgra of this project which will be an importent Information method tabase are the main odgra of this project which will be an importent Information method and promotion. Progra and Devices - The companyLam of the project which will be through chalances who in the other of program (NeVLP) of the form of MOJ with the different File/ISUCs. Applicational — and biospace in the form of MOJ with the different File/ISUCs. Applicational — and biospace methods and the Applications - The companyLam (MeVLP) of the Motional Applications of the Mathian and the program (MeVLP) of the Motion as expected for provide internation of the babase companylement in the odelenmation applications - The company (MeVLP) of the Motional Applications - The operation will be excluded for the National Applications - The operation of the application biosphare method in the odelenmation provide internation on the available emotionation technologies for the significance of the applications and the developed for provide internation on the available emotionization technologies for the significance of the applications - the odelenmation in the odelenmation of the method and the odelenmation applications - The operation of the applications - the odelenmation application of the applications - the odelender of the provide information in the odelender of the method and the odelender of the provide information in the odelender of the provide information in the odelender of the provide opplications - the odelender of the provide information in the odelender of the pro	University of the Philippines Los Baños (UPLB)	Target beneficiaries of the project outputs are agricultural and biosystems engineers, RDE workers in HEI/SUCs and research and development institutions, AE undergraduate and graduate of DA Regional Field Uhm antownide, policy and decision makers in agricultural and fisheries mechanization, DA-Bureau of Agricultural and Fisheries Engineering (DA-BAFE), among others	01-Jul-23	31-Dec-24	ONGOING	5,000,000	1,891,503.37
	Decisionment of a Data-Driven Assessment System (KSDAS) of the Mechanization frequences of the Sugarcane Industry for Improved Mechanization and Field Productivity	Rapid, Inclusive and sustained economic growth	ABUMS and for Mechanization Resource Mapping and Data Analysis System. It is composed of a paperters may app, distablese, and a mahysis using Geographic Information System (EG). It was an objective to address the media management of mechanization paperame, Pilot Isterio Jophiso I de pervicusly PCMRSD-Marcel papert resulted in a user forming app and better information application, generated thereatic mapping that are useful in associations (International application, generated thereatic mapping that are useful in associations) the methomation, generated thereatic mapping that are useful in associations of the mapping of the method of the processing of the analysis of the technology application, generated thereatic mapping that are useful in associations of the mapping of the processing that are useful in associations of the mapping of the processing that are used in a more for social and well- ting each method instabulant. This discuss on a national and the observation from and the discuss of the technology maccurate Industry. It seeks to address problems on: 1) lack of reliable explo-solate data on mechanization plant and the discuss of the mechanization plants of the suggement industry. It seeks to address the technology plant for the suggement industry is address and the mechanization plan for the suggement industry is and the solation of the mechanization plan for the suggement industry is all the solation of the mechanization plan for the suggement industry is all the trans at the mechanization plan for the suggement industry is all the strategic direction of the mechanization plants for the suggement mechanizes of the analysis of the solation of the solation and programme mechanizes of SMa et et mill direction continued address of the potential and programme mechanizes of SMa et et mill direction for the solation' and programme mechanizes of SMa et et mill direction the text of the potential and programme mechanizes of SMa et et mill direction mechanization plants and the solati	Noblatistic: One (1) ordigostic presentation on the results of the project at a local/infermational conference. One (1) presentation on the results of the project at a local/infermational conference. One (1) Month of the project at a local/infermational conference. One (1) Total (2) Aution Instantial Patent: Two (2) Total (2) Aution Instantial Patent: Two (2) Paperters Storey Apple. Methoddapy of MDDAS for data acquisition. Methoddapy of MDDAS for data acquisition. Two (2) Copyright registration for EC madelait: 1 were manual and 1 were manual experiphts Methoddapy and Service: Transit 30 persons of 4 MoNAMOULERC (Coloraminet on caliboration with SRA, MDOC, and Custom Monthership: One (1) endemark. MoNAMOULERC (Coloraminet on caliboration with SRA, MDOC, and Custom Monthership: MoNAMOULERC (Coloraminet on caliboration, with SRA, MDOC, and Custom Monthership: One (1) endemark. MoNAMOULERC (1) endemarked methodapy in the store topy of an analysis to e stateptic planting on the maturation interventions of a producive agencian endemarked on planting on the maturation of the producive agencian endemarked on planting on the maturation on the stateptic planting on the maturation interventions for a producive agencian endocive.	University of the Philippines Los Baños (UPLB)	Jugar Regulatory Administration, Mill District Development Coursile. Castom Service Operators, Farmer and Planter in General Based on the discussion in the welidation workshop there was some sort of consensus that the SRA should work hand in hand with the mill district as every mill district has a management organization which looks after the adfars of the specific localized to the data and the inforgathics that its generated. These they will use for their specific localized mechanization planning and monitoring. With aed of the mill district sconpiletely profiled SRA than can consolidate the different specific localized mechanization planning and monitoring. With aed of the mill districts completely profiled SRA than can consolidate the formation plans. This will with a comprehensive national plan. This will more accurate information across offerent levels once accurate information across different levels the industry. The whole farming and milling population will be poised to benefit from employing the system.	01-Jun-23	31-May-26	ONGOING	15,539,090	5.107.329.30
	Development of an Unmanned Ground Vehicle Drone Aided System Wink-NRS Sensors for Soll Nutrient Mapping of Coffee Farms	Integrity of the environment and climate change adaptation and mitigation	The approximate sector in the country contribute 8.0% to the national economy. Organ like orients, many, adva, and whose production detected in comparison to the production in the same petido tamp production of erop plantitations as result of proor time practices, take of explanent, and insidepate advances and advances and the same sector takes as a limit advance to metativa and information and and advances and the same sector advances and the same sector advances and the same sector advances and the same sector advances and the same sector advances and the same sector and and a fundent management. All these bacts contributes to the large molecular of the accord advances and programs are detected and the provide takes and the same sector and the same sector advances and the same sector and the same sector advances and the same sector and the same sector advances and the provide takes and the same sector and the same sector advances and the same sector and the same sector and the same sector advances and the generation the matter and the same sector and the same sector advances	Ver 1: Assessmit dir he perception and acceptance of target clientele about unmarined ground dir he perception and acceptance of target clientele about unmarined (sourd and GV) philom fabrication; hispande 38 AUGV pietons here 2: Philophe and acceptance of the support with us-MR sensor; Falsible percellation models of oal properties; hispande abhere of the UCV-ARN with for all properties; hispande ablere in properties; target and and abhere of the UCV-ARN with all properties; hispande article in (StriCouple) indexed (pand); toperations manual journal Patents/Intellectual Whick System with w-MR Stensors coupled with unmarined anexil vehicle People all least 2 undergraduate/MS students is a 2000 and properties; target appending and the support all least 2 undergraduate/MS students	Cavite State University (CvSU)	Fermers, researchers and soil scientists, local government units	01-Jun-22	31-Mar-25	ONGOING	11,229,714	1,214,299.00

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of	Total Project	2024 PCAARRD
									2024'	COSL	GIA
	Development of Microbial and Plant-Microbial Combinations for Bioremediation of Pesticide	Rapid, inclusive and sustained economic growth			Benguet State University (BSU), Cebu Technological University (CTU)	Farmers, whose farm soils can be restored to health; Ordinary consumers of farm produce, which	01-Apr-23	31-Mar-26	ONGOING	21,451,592	4,061,644.00
	Contaminated Vegetables Areas in Selected Provinces			Expected Outputs		is basically everyone; The health of the general populace consuming farm products and the health of					
			Benguet farming areas and vegetables have been reported to be contaminated with varied pesticide residues, with	Objectively Verifiable		the environment.					
			chlorpyrifos being one of the highest and commonly detected in vegetables and soil (Reyes & Laurean, 2007; Lu, 2010; Ngidlo, 2013).	Indicators (OVIs)							
			Preliminary studies done to isolate microbes, particularly endophytic bacteria from persistently contaminated farms in La Trinidad, Benguet had								
			yielded a number of species with extremely high tolerance to chlorpyrifos and some with moderate capacity for degradation in vitro. These were								
			kontined by tos ruku sequencing as Acinetobacter junii, Kosakonia sacchan, K. oryzendophytica, Pseudomonas monteliii, Raouttella entitieriotier, Desudomonas monteliii, Raouttella	¥1							
			asburiae, E. cloacae, Klebsiella pneumoniae, and Pantoea agglomerans (Guyo and Tipayno, 2021).	Y2							
			This research intends to use indigenous populations of pesticide degrading microgragnisms and associated plants in	Y3							
			developing formulations for the purpose of reducing pesticide residues in selected contaminated vegetables areas in Benguet, creating a safer environment								
			at the same time improving soil health and productivity. The first phase consists of isolating fungal, soil and endophytic bacterial populations	Total							
			with high tolerance and degradation capacity for organophosphate pesticides commonly detected in Benguet vegetables areas and evaluate their plant growth								
			promoting characteristics. The second phase is intended for the optimization of growth conditions in a bioreactor and development of microbial culture formulations	Publications							
			for effective derivery and sustained growin or isolates in the soli. I ne third phase of the project will assess pesticide residue reduction and soil quality change in paging the activity and a controlled environment								
			after inoculation with new isolates as well as microbes isolated from previous studies and their combinities and in constant with bort and	2							
	Development of nanofertilizer from poultry waste	Integrity of the environment and	The project is a research collaboration between the University of Mindanao and Ana™s Breeders Farm, Inc. (ABEI). ABEI is one of the leading integrated onultry farm producers of bioh-quality broker.	Publication: At least one (1) publication for the technology to simultaneously deodorize and produce solid and liquid panofertilizer from biopas plant dipestate. Patent: At least one (1)	University of Mindanao-Bolton (UM-	Anna - Duradara Carra ka	01-Apr-22	30-Sep-24	COMPLETED	4,990,000	444,091.20
	biogas digestate	mitigation	chicken meat in the Philippines. Their scope of operation includes feed mill plant, parent slock farms, hatchery, broiler farms, dressing plant, cold storage facility, and	patent application for the technology to simultaneously deodorize and produce solid and liquid nanofertilizer from biogas plant disestateProduct: Products (3)	Bolton)	Ana,",s Breeders Farm Inc. General Community					
			meat processing plant. One of the problems the company is facing is the salability of their fertilizer from chicken manure. A few of the factors that affect its marketability are the undesired odor and	Solid Nanofertilizer Liguid Fertilizer		Environment Academe (researchers, educators, students)					
			moisture possessed by the produced fertilizer. With a production rate of 120 m3 digestate per day in their biogas reactor, the company is expected to recover 12 tons of fertilizer after 30 days of	Biogas plant digestate processing equipmentPeople: People and Servicess (5) 2 Masters students and 3 undergraduate students, Place: Places and Partnerships (2)							
			fermentation. Although the company™s existing technology uses a decanter to separate the solid fertilizer, the approach was not enough to produce fertilizer with higher market value. The	Partnerships with Ana, , s Breeders Farm Inc. and Radicor Manufacturing Inc. Policy: N/A							
			current technology is estimated to cost Php 20 per kg for the treatment, while the market price of the product is only at Php 2, hence, the company is suffering a significant loss, and thus, the process								
			must be improved. Organic tertilizers such as these are cheaper than chemical tertilizers, e.g. urea which is priced at around Php 1140 per sack or Php 22.8 per kg. The use of this fertilizer will result in the improve any forward the around the interval tertilizer of fertilizer and the same time.								
			increasing crop yield. This project aims to produce a nanofertilizer obstant at the same time increasing crop yield. This project aims to produce a nanofertilizer which is considered a promising anorrach to improve crop production thus making it more attractive in the market. The project also								
			aims to develop a technology to deodorize the produced nanofertilizer to increase its salability. Biofiliration is the technology to deodorization over the others. Various technologies are available such								
			as chemical scrubbing and adsorption, but these technologies produce secondary products that require additional treatment. Four products are								
			expected for this project, namely: solid nanofertilizer, N-P-rich liquid nanofertilizer, N-K-rich liquid nanofertilizer, and purified water which can be used for plant operations.								
	Development of sustainable rice straw management	Rapid, inclusive and sustained		Publication: One published research article in refereed journalsPatent: NoneProduct: NonePeople: Capacity building of farmer cooperators, and researchers and students from	University of the Philippines Los Baños	Farmers, researchers, extension workers, students,	01-Apr-23	31-Mar-25	ONGOING	4,998,968	2,332,651.04
		containe growth	EXECUTIVE SUMMARY	partner SUCPlace: Collaborations with agencies/farmer cooperatives in the study area, SUCs, and DA-RFOsPolicy: None	(0, 20)	policy marcino					
			In the Philippines, the national rice production average is around 4								
			tons ha-1 (PSA 2019). With two cropping seasons per year, a hectare of rice land can produce 5.8€*11.2								
			tons ha-1 of nice straw based on a straw-lo-grain ratio of 0.7-1.4 (IRRI Rice straw management, 2015). One ton of nice straw removes as much as $N_{\rm ext} = N_{\rm ext} = 0.2025$, and $N_{\rm ext} = 0.2025$.								
			in a one-hectare field (Dobbermann and Fairhurst, 2002) hence successful incorporation of rice store could mean significant improvement in soil fertility and								
			reduction of fertilizer inputs. It was also found to increase the subsequent rice vield by 17-27% (Watanabe et al., 2017; Witt et al., 2000).								
			Because of the large amount that is produced, rice straw management								
			becomes an important component of sustainable rice production systems. However, rice straw burning has become a common practice since its								
			decomposition rate is slow. The introduction of microbial inoculants, specifically Trichoderma species, were found to greatly contribute to the								
			goal of sustainably improving soil fertility through crop residue incorporation. Recently, an in-situ composting technique of nce straw with								
			(TMI) showed promise in increasing rice yield even in Cu-contaminated and denuels (Facility and the second								
			orought-arrected areas in wogpog, warnoudde (Coevas and Banaay, pers connit.).								
			This project is proposed to validate the Trichoderma technologies and develop a rice straw management strategy that can improve yield, increase								
			farmers€™ income by reducing the cost of farm inputs (fertilizers and pesticides), mitigate the effects of climate change and has the potential for								
			bioremediation. With the soaring prices of fertilizers and pesticides in the global market, the result of this project will have a great impact on our								
	Far-UVC Pulse Treatment: A Multi-Layer Approach to	Integrity of the environment and	Cassava is planted yearly in about 120,000 hectares of agricultural land in the Philippines, producing	Year 1 Car 1847 and a Tantana Tanhadan with an hamful affasta	Isabela State University (ISU)	More than	01-Aug-22	31-Jul-24	COMPLETED	6,801,006	1,089,071.62
	Suppress Three Major Cassava Diseases	climate change adaptation and mitigation	autour to minor wins or cassava roots. The demand for cassava is increasing and will continue to increase with continued increase in the number of consumers and improvements in processing cassava mode into value-adding products. (DAuAMAS, 2010)Farmers in the leabela project the Debinoise.	Cloud-based information system Standard information system		800 cassava farmers in the province of Isabela. At least					
			grow cassava for livestock feed and industrial use. The San Misuel Foods Inc., one of their buvers, projected a demand for cassava tuber at 6 million	developed Year 2		three technicians from the DA-RFOs and DA Regional Crop Protection Centers					
			metric tons, however, the 2019 actual cassava volume of production amounted to only 2.6 million metric tons. (PSA, 2020)Pest and disease problem is one of the pressing challenges of the cassava industry	Men and women Cassava farmers & amp; stakeholders capacitated		(RCPCs).Two Local					
			in the region. Limited access to technology and knowledge on management factors that ininuence PD presence and incidence is minimal.	Publications submitted and presented and IEC materials producedUtility model inled; and System Copyright registered		private company (San Miguel Corporation), which					
			Cassava phytoplasma disease, for instance, can reduce yield to about 50-70% when symptoms appear 4 to 6 months after planting. A 100% loss in yield may even			starch.					
			occurrence and spread of the diseases will continue to affect yield and income of farmers specially the resultive contrained with account of the diseases and the special provided and the special p								
			ure similariouses who are constrained with access to technology and disease management strategies. Continually relying on chemicals that are harmful to the environment ould lead to a bioner problem. Therefore, it is necessary to re-examine alternative or								
			complementary solutions from a different perspective.								
						The beneficiaries mentioned above will have the opportunity to rent					
						and explore the Far-UVC Pulse Treatment Technology's innovative design,					
						affordability, effectiveness, and environment- friendly					
						treatment or control of CPD, bacterial blight, and leaf					
			This project seeks to reduce if not eradicate			Additionally, this technology could be a					
			disease-infection in major cassava plantation in Isabela province. A new	1	1	oupprementary income generation endeavor					

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
	MANGGA - Mango Automated Neuralnet Generic Grade Assignor	Integrity of the environment and climate change adaptation and miligation	MMOGAN is a project aimed to improve the quidity important and sorting of export grade margo fruits through the development of an autometer full graden gain sorting system. Sorting and grading of margones is usually done supporter for efficient and accurate sorting and graden is measurement to efficient and and have uniformity of graded fruits for export and local markets.	Pabelations/ber (1) selentific manuscripti submitted for publication on eleveral gournal Training manual/EC material on operation and maintensor of MMXGQAProtockt/cme (1) manuaru value posture of Pattensityschen (1) expensition and an antipation of the selection of the pattensity with fresh mango apporting industry/company PAternDire (1) pattentity model of the automated at (1) expended mango of the automated at (1) expended mango (2) industry staff of the module on operation (2) industry staff of the module on operation (2) industry staff of the module on operation (3) industry staff of the module on operation (3) exclusive and the module of the least one (1) mango association/cooperative on MANGAPhicy	University of the Philippines Cebu (UPCebu)	1 Mango growers and cooperatives2. Mango fruit exporters and processors3. Department of Agriculture4. Researchers	01-Dec-22	30-Nov-24	COMPLETED	7,290,906	1,041,426.04
	Near Real-Time Tracking Using Giß and Thermal Sensing Technology for Eo: TAR Ubection and Prediction Dispersal in Banana (Old Title: Near- Reatime Fusairum Wit Tracking using Gis and Thermal Sensing Technology)	Poverty reduction and empowerment of the poor and wilnerable	Fusation with that continued to devalate the bases inducty, resulting in huge tosses and benivatory (result growers and concentrative) to how acconce does with the desase and even-huge by papelo being unemptoyed. It was of these, some inducty players suggested to initiate presente simple the simple sector of the sector	Paleitation: One (1) publication of Methods on Detecting FoTH4 using the themal imaging appears in ansman-Sharibenedpointal distance in (2) initiated and content initiated to the project many sector inedia platform Palent: One (1) Palent on Expert Islammation SystemProtects: Too: (2) indusing players terminate for TRA performance systemProtects: Too: (2) indusing players terminate for FOTH performance. The CH (2) Mode with banana player partnerPulcy: Two (2) organization policy recommendations on the protocols of FoTH4 early setection.	University of Southeastern Philippines (USeP)	The target beneficiaries of this project are small binanarg grovers in Region XI and a teast two major players in the industry (these are 24 Philippine Banna Grovers and Exporters Association (PBCEA) members)	01-Mar-23	28-Feb-25	ONGOING	4,999,968	1,501,191.79
	Near-eatime Montoring of Banana Nutritional Status and Yeld Forecasting Using Airborne Multispectral Imaging	Powerty reduction and empowerment of the poor and vulnerable	The project intends to address nuclearly management sease of cavandah bananas through the introduction of lof-bana multipschar introduct rearing biochology. This will be done by detecting advantages in macro- anameters and the sease of t	Paloitation: One (1) Paloitation on the Near-earlines Machinory of Banuan Multifonal Status and Ved Greating using Alforms Multiforestall Imaging Paloitation, C. One (1) palent Near-earlines Multiformal Status and Paloitation, C. One (1) palent Near-earlines Multiformal Status and Paloitation, C. One (1) palent Near-earlines Multiformal Status and Paloitation, C. One (1) palent Near Garant Multiformal Status and Paloitation, C. One (1) palent Near Garant Multiformal Status and Paloitation, C. One (1) palent Near Garant Multiformal Status and Paloitation, C. One (1) palent Near Garant Multiformal Status and Paloitation, C. One (1) palent Near Garant Multiformal Status and Paloitation, C. One (1) palent Near Status and Coloradiation Multiformal Paloitation, C. One (1) palent Near Status and Coloradiation Multiformal Paloitation, C. One (1) palent Near Status and Coloradiation Multiformal Paloitation, C. One (1) palent Near Status and Coloradiation Multiformal Paloitation, C. One (1) palent Near Status and Coloradiation Multiformal Status and Paloitation, C. One (1) palent Near Status and Coloradiation Multiformal Status Paloitation, C. One (1) palent Near Status and Coloradiation Multiformal Status and Paloitation, C. One (1) palent Near Status and Coloradiation Multiformal Status and Paloitation, C. One (1) palent Near Status and Coloradiation Multiformal Status and Paloitation, C. One (1) palent Near Status and Near Status and Near Status Status and Near Status	University of Southeastern Philippines (USeP)	Hijo Resources Corporation Banana smallholders	01-Jul-22	30-Sep-24	COMPLETED	5,000,000	1,644,519.24
	Pilot Testing of a Local Riding-type Rice Transplanter (Phase II)	Rapid, inclusive and sustained economic growth	Phillips has developed a local disk hyper bancplante under the project, Gabrage and Development of a local ReintyPhyser Tamograhmet with Interplant program (Sabrage and Development of a local ReintyPhyser Tamograhmet with Interplant to the state of the conducted in Name Eigl a during the first pilot testing conducted in 2018 and networks and the design fit interprote the mathiet ¹⁶ we performance. The mathiet is a local state of the state of the state of the pilot testing conducted in 2018 and networks and the state of the state of the state of the state of the pilot ansa local state of the state of the PhSS stated and the station the state of the state of the state of the state of the local state of the state of the state of the state of the state of the local state of the state of the state of the state of the state of the local state of the state of the local state of the local state of the local state of the piloting achieves the state of the local state and pilotement requirement. There is a need to conduct the piloting achieves to ensure pilot ansa under different feshicult, according locality the piloting alpha, the piloting would be subjected to different feshicults and model accordingly.	The expected valued of this poject. I. A Exhibitable indext. eccommonly value, and socially acceptable riding-type rise transplanter that is being manufactured by accredited manufactures for commercial production.	Philippine Rice Research Institute (DA- PhilRice)	1: Farmens/Seed Growers 1: Seed Content/Cooperatives 5: Seed Content/Cooperatives 5: NOCE *** 1: Private Company (Local Manufacturers)	01-Apr-23	31-Jan-25	ONGOING	2,213,778	508,567.07
	Precision Agriculture for Improving the Productivity and Economic Profitability of Cabbage and Potato in Benguet	Rapid, inclusive and sustained economic growth	The Confilment Administrative Region is the top produces of cabbage and packation in the occurity due to the aduatibility of the cross to the region ⁴⁴ the studie clinical environment packationly in the Bengard Provises as the major gravity asias for semi-semperate weightables. The region produced B2.8% or 150- to Outsiand metric cost of patienss and 7.7% or 19.4.2 to sound metric cost of cabbage in the occurity (PSA, 2022). While Bengard Province is known as the GasSaid Boat ⁴ of the Philippines, due to its hugge outduction of vegatabare and is straportative as ampler suggine to qualitate to the water conduction of vegatabare and is straportative as major suggine for qualitate to the water analogic and socioeconomic resource constraints that allow only low income to be noticed and the province allow suffers from poor or lasking inflastructure that supports commercial agriculture (Mlagrosa, 2006).	Abiliations Tear (2) Integra paideatk lead one (1) journal articleTwo (2) fiyees (Decremonder) and a charophil network Patents Con (1) patent for mobile app (18e0/Dec (1) patent application for website for firstitution guidance lead application for integra filed Patents Con (1) patent for mobile application for integra filed Patents Con (1) patents (1) patents (1) patents application of eveloped One (1) website field expection target developed Patenthyle Con (1) (Long appending (Long January Con (1)) (I) (I) (I) (I) (I) (I) (I) (I) (I) (Benguet State University (BSU)	Researchens/Research Agencies/SUCsFarmers, StudentsAgriculture sector	01-May-24	30-Apr-26	ONGOING	4,999,619	2,643,212.00
	Rehabilitation of heavy metals contaminated agricultural areas along the Tatl River Basin	Rapid, inclusive and sustained economic growth	This proposed project is part of the network) concluded project of Nerhmest Sama Sate Networky (NeSS) with 00021FCAAR00 feed Subbitly Assessment for Agriculture Aspacehine Food Production of the Floodplants of the Taff New Basin Impacted by Peat Operation of Bagacay Meeds, The project protect, wy high beat and alaring rate and the New Meed Contraction and Sate Sate Sate Sate Sate Sate Sate Sate	Pablication: A faces for (2) execute a whole submitted for pablication / pablication / pablication in high magacipanel (3) expose, 4:1: b how as where more of non-main of assemination to bioentrary model.com, essential of, and building medical and the paces sophication of a participanel (3) execution (3) and (3) a	Northwest Samar State University (NY SU)	Clienteles Expected Outcome / Effects Of The Project Output Twenty-six (26) rice farmers with a total farm area of 60 hectares currently cultivating in highly contaminated agricultural soils within Brgs. Malinao, San Pablo, Mebuhay, and Lumatod/Burak, Taft, Eastern Sama area with be identified as site for field traits on phytoremediation and rehabilitation.	01-Jan-23	31-Dec-24	ONGOING	4,996,522	1,837,054.00
	Smart Indoor Farming System for Hot Pepper and Tomato Production in the Philippines	Integrity of the environment and climate change adaptation and mitigation	The endowingly a lar index production system for hot paper and formals production under trapical endowingly and a production of the production of the production of the production of the production requirements through mark again. Under production and production of the endowing production of the which will be converted in its amargine endowing with a most production of the production of the production of the production of the production of the production of the production of the production of the production of the production of the design production of the production of the production of the production of the production of the design production of the production o	Padotation vs. Istanti (one) postoration is societatic parallelizatii 1 (one) pasen postoration 64, and a societati (one) (on	Central Luzon State University (CLSU)	Locus in this Latterin Latter The target beneficiaries for the project are: CLSJ and Chunghak National University researchers through the partnership and benchmarking. Other research on indoor farming based on the resulting publication and patent from this project; and Farmers and extension workers, who will be learning the technology thru field day and value.	01-Aug-23	31-Jan-26	ONGOING	5,000,000	762,449.00

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31.	Total Project Cost	2024 PCAARRD GIA
	Sustainable Indoor Farm for Crowing Lardy Vegetablee weight withink Liphtee (SGA) Performance Training and Exhibition of Solar- powered Modular Indoor Vertical Farm	Rapid, inclusive and sustained sconomic growth	Interest in index vertical faming, also known as plant factory with artificial highing (PAL), is replify growing because of the production constraints associated with indexing each efficient family. The potential of growing and the production of the efficient of the production of the production environment, high planting density, and loss space requirements make index which allows planting density, and loss space requirements make index of statical family (high valiable of indexitation and utan mass. Anong Antop, Antop, Anong,	Palvidance (44) least as (1) classific page for presentativity-bioladorid/14 Marci and CPC/CT anteriological to similary parallel of tability and operating BGLAPRestrict(500 CH) (1) PR of SIGLA-related capter(500 cH) (1 opergit) of taming manual for establishing and operating SIGLA-related capter(500 cH) (1 opergit) of taming manual for establishing and operating SIGLA-related capter(500 cH) (1 opergit) of taming manual for establishing and operating SIGLA-related CA) (1 operating SIGLAPRestrict(500 cH)) (1 operating stabilizer on one (1) favolution (1 operating SIGLAPRestrict(500 cH)) (1 operating and lines on one (1) favolution (1 operating SIGLAPRestrict(500 cH)) (1 operating and lines one of the stabilizer on the stabilizer on operation (1 operating SIGLAPRestrict(500 cH)) (1 operating and lines one operating stabilizer on the stabilizer on operating stabilizer on the approximation (1 operating stabilizer of point-fall taming/6/fallows the)-quility, classing and lines of spansing and adoption of the tability and charge and taming the stabilizer of point-fall taming/6/fallows the)-quility, classing and lines of spansing adoptions of spansing adoption of point-fallow marketable quility produces (1 operating lines) tability stability adoption of point-fallow marketable quility produces (1 operating lines) tability and tability produces (1 operative) tability of the tability produces (1 operating lines) tability and tability produces (1 operative) spansity of tability produc	University of the Philippines Los Baños (UPLB)	Agri-entropreneurs and agri-enthusiasts (urban grouvers) Food service industry (restaurants, catA/Re, hotels) Private companies/individuals (e.g. high-end supermarkets, agri-suppliers, and manufacturers) Local Government Units (agro-tourism projects) Research institutions (R&D projects)	01-Jan-23	31-Dec-24		3,741,000	1.401.484.00
Strategic Positarvei, Research for innovative and Novel Technologies for Horticulture Industry Development (SPRNT-Hort)	Project: I. Positharvest Systems improvement of Selected Honicultural Value Chains	Rapid, inclusive and sustained economic growth	High solutions of crops are list after harverst along the supply chan and exercisely and the search of the sources using vision and actions that loss accounts. These result in concentrative more compared for almost and trades alw, as well as less available markstable supply of the consuming public. Show positive that always and the search and a social bar between production and community, an approach and the search and a social bar between productions and community, an approach always and the search and a social bar between production and community, an approach always and the search and a social bar between productions and community on approach advect and the search and a social bar between productions and community and advection and the search and a social bar bar bar bar bar bar bar bar chain will norease the likelihood of barchinda interventions leng applied and takin up by the chain will norease the likelihood of barchinda interventions leng applied and takin bar by the Philippines. These are compounded by a new set of chain-ges associated with more demanding production is an economically, environmentally and bar lengibars related to environed a chain will economically developing countrient needs to be strengthened and improved to make food losses will be decreased to a minimum.	Publications—2 and/or in reference statistication (Constant—Particitation Card Property on Publications—2 and/or in reference statistication (Constant—Particitation Card Particitation	Banguet State University (SSU), Neuve Vizzens State University (VSU), Central Luzon State University (VSLU), Central Luzon State University (CSU), University of the State University (VSU), University of the Philippines Lot Bantos (UPLB)	[6] Food industry stakeholders such as farmers, traders and processors who will be knowledgeable about the natural preservation systems for fresh tabl. and public sector prosestabilities for statil, and public sector prosestabilities for technology verification and promotion	16-Mar-23	15-Mar-2t	S ONGOING	35,069,242	9,661,113.85
Strategic Postharvest Research for Introvative and Novel Technologies for Horticulture Industry Development (SPRNT-Hort)	Project 2. Development of Low-Coal Cooling and Storage Systems for Horticultural Produce	Rapid, inclusive and sustained economic growth	Horisottural produce have short hell file, hence cooling is essential. Optimum cooling can be adhered by mohumical effortiation lad is high internetion and opprations cans stere adaption. The project and the product of the product and the product and the product and the product practices and requirements of potential users to substantiate the three studies (-LDevelopment of common studies). The product and the product and the product and the product and the product studies municagement systems). Coolador cold studies has been reported to same TNS of upfand could studies. The product studies and the product and the product and the product and the product studies municagement systems). Coolidor cold studies has been reported to same TNS of upfand could conge. Exponential could be cool studies and the product and the product and the product and constrained produces. For larger valuese of one to no more, the EC system needs attach and constrained studies. For larger values of one to no more, the EC system needs attach and constrained studies. The studies cale pands, thereby enhancing meetawales and constrained studies and the studies attach and the product may be and the needs attach increase storage efficiency which is a more substantiable solution to induce produment losses.	Products proteigne of grid and supported cooked cooked stronge with methon capacity, in proteignes of grid and capacitons citizeness and capacitons, including sectors intergrided stronge management systems (manage, burnare, breespice, citizeness, capacity), medicis intergrided stronge management systems (manage, burnare, breespice, citizeness, capacity), in research advision, burn, mere, reself-spice and Sovices all test and subsets tailing capacity and capacity of the transmit intermed and/or exclusion for advisory advisors in research advision, burner, reself-spice and Sovices all test advisors tailing and evolution of the transmit intermed and/or exclusion and partnerships within and consequences and partnerships constrol and advisors and partnerships within and on partnerships and and a spices in interference classific partnerships and partnerships and and advisors and partnerships within and exclusions and postmerent subjects in undergraduate and practates programm-Britelicance and partnerships within meri- metant interferences and partnerships within and exception code prototypes. Postmat Soviet in undergraduate and practates programm-Britelicance and partnerships within meri- ticates and increase in supply of and profits from free produced fragment of advisory of partnerships tasking undersame to understail Soviet in marker engineement and competitorease. Todapart of postmerse to substatis for constrol metal and competitoreases backgring of postmerest losses and energy consumption/bartielication of postmerest backgring of postmerest losses and energy consumption/bartielication and competitorease. The postmerest losses and energy consumption/bartielication and competitorease.	University of the Philippines Los Baños (IPLB)	 Producerse^(W) groups/cooperatives, food handlers, markens, and other stakeholders in the horticulture industry—Researchers/scientists, educators, policy makes and other development actors to adapt low-cost storage systems in horticulture industry development. 	16-Mar-23	15-Mar-26	S ONGOING	12,885,000	3,468,108.84
Strategic Posharvest Research for Innovative an Noval Technologies for Horticulture Industry Development (SPRNT-Hort)	Project 3. Development of Natural Preservation Systems for Fresh Horticultural Produce	Repti, Inclusive and sustained economic growth	Fresh commotities, like fullit and vegetables, are highly perintiable. In the Philippines, peathaved baces are high own block the commotive tread occurrence, which is notecaning demonstrated for all more than the philippines. The philippines are seen to all the philippines and the ph	Products – 6 knowledge products information on safe, natural, eco-freedy, and sustainable prevention technique – 3 statel products, nation antimicrabia, pathomers efig and non- prevention technique – 3 statel products, national antimicrabia, pathomers efig and non- mon-encopsulated seeboddenine wastel products, dis or plant-based compounds for quality and antipathomers and antibia electroscope state and services – historia and sub- cluster and state and services – historia services – historia and service	University of the Philippines Los Barlos (IPLB)	 Food industry stakeholders such as farmers, traders, and processors will be knowledgeable about the natural preservation systems for fresh horizultural produce. – Researchers, academic backholder, and promotion for technology verification and promotion 	16-Mar-23	15-Mar-26	ONGOING	14,525,654	2,805,057.50
	Application of Califose Nancoystels Extracted from BANDALA Files a Reinforcement Material in Starch- Based Bioplastic Film	Rapid, inclusive and sustained economic growth	The project offers an attenuate, excellendly, and extended explore to replace or substitute the use of synthetic and proteines based placet (in White nanoduluose barge amerging inducing due to the high potential in composite application, the use of BANDAL as source of nanositiluose as a bioplanic and as a methodometry of the start-based biocomposite film will be explored. This scientific endeavor would produce value to produce development from BANDAL Alters particularly on the biodimetry of use applications of this bio-based nanomaterial, and could advance the bid for use of sustainable and environment-filendly materials	Paloitation: One (1) submitted journal article an application of materialization files data as an information material in starch-based bioplastic files Plastic: One (1) Paleira application files on the abaca CNC reinforced starch- based bioplastic files Plastic: One (1) Paleira application files on the abaca CNC reinforced starch- baca bioplastic files information of the abaca (DANDAA) (Year 1) Starth-based bioplastic files files (Faleira abaca (BANDAA) (Year 1) Starth-based bioplastic files (Faleira abaca (BANDAA) (Year 1) Starth-based bioplastic information and an anomaly and an anomaly manonystalia and CAI reinforced TB histoplastic limit/hase and Paloitatic file (Instructional production of abaca pulp), and Collegori Graup, Inc. (Camarines SurPAiricy AI bioplastic	DOST-Forset Products Research and Development Institute (DOST-FPRDI)	Plantation grower Pulp and paper industries Scientific communities Plastic manufacturers General public	01-Jul-24	30-Jun-26	SONGOING	4,999,217	3,134,321.00
	Chemical and Biological Management of Fungal Species Complex Inciting Onion Anthracnose	Poverty reduction and empowerment of the poor and vulnerable	A project that aims to provide chemical and biological management options for sustainable management of onion anthracnose.	Publication: at least 2 journal articles and 2 pamphtetsPatent: noneProduct: at least two (2) fungicides with different modes of action and at least one (1) biological control agent identified effective against anthracrose pathogensPeople: 100 onion growers, 2 RCPC III staff, 5 MAO, and 1 PAO Neuve EcipPlace: 5 letters of commitment with onion growers representation in Neure EcipPlace: 5 petters of commitment with onion growers representation in Neure EcipPlace.	University of the Philippines Los Baños (UPLB)	100 onion growers, 2 RCPC III staff, 5 MAO, and 1 PAO Nueva Ecija	01-Jul-24	30-Jun-26	ONGOING	5,000,000	1,354,817.70

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31	Total Project	2024 PCAARRD GIA
	Development, Genotyping and Preliminary Evaluation of Genetically Stable Planting Materials of the Philippine Priority Medicinal Plants (PPMP)	Rapid, inclusive and sustained economic growth	This project is designed to complete the gendyping and evaluation of genetically stable planting materials of the 20 picody medicinal plants of the horbal industry.	People 2-2 basised**45/Pb3 student thesis work on medicinal plants:	University of the Philippines Los Baños (UPLB)	Research organizations, men and women researchers, scientists, students, farmers, operanei public will benefit from a promising and genetically stuble source of planting materials of medicinal crop species.	01-Jan-24	31-Dec-25	2024 ONGOING	4,995,136	3,064,261.65
	Enhangen Transie ou de Unoconstraine au d' Sit Tassado Tam Practices to Support Industry Development in Bohol	revery reaction and exponentiated the poor and volteration	Processing of High-section bank and a comparison to a loss of the one of the loss of the l	Indextance in religibility of the temps in the period material of the Constant MoV (1) Her. Indextance in religibility of the temps in the period material of the Constant MoV (1) Her. Interpretation technique AI heart 100 period material adaptations and periodistion the temps in the current material periodic material adaptation of the temps in the second material adaptation of the temps in the second material adaptation of the temps in the second material adaptation of the temps in temps in temps in the temps in temps in temps in temps in temps in the temps in t	visibge state University (VSU) Bohol Island State University (BSU)	Ubi farmes Processors Extension workers Policymakers	01-301-24	du-Juh-Ze	Unquing	4,999,021	1,446,949,10
	Evaluation of Selected Musa Accessions and Disease Management Strategies Against Bugtok (Ralstonia solanacearum) Disease of Banana	Poverty reduction and empowerment of the poor and vulnerable	This project aims to fill the knowledge gap on resistance of promising Banana varieties and cultivers against builds by generating data on the reactions of selected locally available Mosa accessions.	Publication: At least two (2) anticles in an ISI-rebard journalPatent: N/Perduct: NAPepde: 1. 2006 (1) and the advanced and	University of the Philippines Los Baños (UPLB)	Banana growers Banana breeders Non-government organizations Researchers Students	01-May-24	30-Apr-26	ONGOING	5,000,000	2,692,119.28
	Exploring the Efficacy of RNA Interference (RNA) as a Bioperticide Managing Sweetpotato Weevil, Cyles formicarius (Fabr.)	Poverty reduction and empowerment of the poor and vulnerable	neepotato is an important not orop that is grown widely in the Philippines. In addition to is use a a deci orop, sweepotato has been used an an attemative ingredent to own in the formation of commercial animal facets. Seen bisested yield may be accounted to the damage caused by inset discusses (BPNO), and with the philippines in a discussion of a galaxies and the philippines. In addition, the seen paid an object to the damage caused by inset discusses (BPNO), and with the philippines in the damage	Pelotitation: Three People: 3 Undergraduate, 2 Graduate students (MS and PHD); 1 University Researcher, 1 Lidonatory Add. 9 Research Internativp/Place: Three places and partnership: Sereetpools ABD Center in Tarte Apricultural University. We will get the insects from them and will have consultant omethings with their staft with regards to the SPW Intelations they monitor in the field. Our contact persons is ML Binerg Galaxy. We are also in ontotal with Seventopools and the View of the SPW Intelation Sector Sector (Sector Sector	University of the Philippines Los Baños (UPLB)	Farmers, RCPC workers, students, researchers, academics	16-Jun-24	15-Jun-26	ONGOING	4,999,984	924,792.40
	Functional Genomics of Morphogenic and Oil Synthesis Generation Coconst (Cocos nucliera L.) in a Model Monocot Zea mays L.	Prevery reduction and empowerment of the poor and witherable	The proposal aims to characterize the function of steeded cocorum morphogenic and of synthesis, persens using the occurs induced transformation is chronology. The functional analyses using the induced set of the steeder of steeder of the steeder of the steeder of steeder of st	Pacification - At least 25 is publications submitted for publication-Product: - 3 transformation careflete containing the darged gene (6, -4, WB-BBM, Olecan, and WBI)-Ophimate hardnmarks and regression protocols. At least (0) publication transport make internal transport makes into the SL greenhouse contrastment. At least 10 publications framework and the strange of the strange of the strangenetic lines and functional analysis data for transformation afficiency and regression for morphogenic burbles and analysis data for transformation afficiency and regression for morphogenic transport (e1, e8, BBA) (green strangenetic lines) and the strangenetic lines with hardness and the strangenetic lines and regression for morphogenic training for particle PAC-RC of URL (gr least 7 participants). I training for morphogenic lines with Contrast with metant strander grammeremet(MTA) for distance of BBM and VMC constructs and Trymite negative Agriduations Pacella binkage through a Memorandum of Understanding (MDU) with the University of Issand at Menox for make bandomation	University of the Philippines Los Baños (UPLB)	Direct beneficiaries will be male and female plant physiologista and agronomistikogiculturitis two will adopt the developed issue culture, maize model, and transformation protocols for other related studies such as further improvementlenhancement will also generate knowledge and development of techniques for enhanced gene expression studies (BS Agricultural Biotechnology/Biology/Agriculture) and graduate lesiol (MS and PFIc) holdeculture) and graduate lesiol (MS and PFIc) holdeculture) and graduate lesiol (MS and PFIc) holdeculture) and graduate lesiol (MS and PFIc) holdeculture There is also equal opportunity for industry stakeholders who might have an interest in investig in the maturation of the technology developed for the production of cocount all and other products derived from corn grams for food and industrial applications.	01-Oct-24	30-Sep-27	ONGOING	17.619.275	3,560,167.00
	Genetic variability and selection for drought tolerance and disease resistance in sugarcane through in-vitro techniques	Repti inclusive and sustained economic growth	The productivity of the Philippine sugaration industry is facing increasing firmed from climate change- induced block and block factors. The concentral wardles spaced with 84/47 hockers of the map sugarance-growing regions of the country, which supports approximately (20,000 sugarations of temport sugarance-growing regions of the country, which supports approximately (20,000 sugarations famores have support and forcing). The project seals of uncompared the support handles of the support support of temports and the support support of the support handles of the support support of temports and the support support of the support handles of the support support of temports and the support support of temports and the support of the support support support support temports and the support handles and the support of the support support support support support support support and the support support support support support support support support data support support support support support support support support and the support support support support support support support data support supports and temport support support support support data support support supports the support support support support support data support supports and support support support support support data support supports and supports the support support support support data support supports and supports the support support support support support data support supports the support support support support support support data support supports the support support support support support support support data support supports the support support support support support support support data support support support support support support support support support support support support sup	Pablitation Al least ore (1) pablitation submitted in a scientific journal/Patent in too scienting protocol for disease relationar/Point Al least on (1) promising waterit adeleted for mult and down mitter relation of profile (1) and (2) and (1) and (1) and (1) and (1) and (1) and down mitter relation of profile (1) and (2) and (1) and (1) and (1) and (1) and desirable genetic changes, and 1 BS and 1 MS student supported/Race.MOU with Central Philippine State Liniversity (CPSU) and Sugar Regulatory Administration (SHU)	Philippine Sugar Research Institute, Foundation Inc. (PHLSURIN)	Direct beneficiaries are the women and men sugarcane recentories, breeders, jainters, millers sugarcane recentories, breeders, jainters, millers dependent on sugar (e.g. sod finika, various fruit drinks, food products, ottage industries that use sugar), and industies dependent on the sugarcane plant (e.g. ethanot plants). However, indirect beneficiaries include biofuel and power generation.	01-Oct-24	30-Sep-27	ONGOING	5,000,000	2,165,670.00

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31.	Total Project Cost	2024 PCAARRD GIA
	Geographic Distribution and Genetic Diversity Analysis of Ralstonia solanacearum Phytotype II causing Baanaa Burgkis inte Philippines Using Next Generation Approaches	Poverty reduction and empowerment of the poor and winerable	Bugks is a disease of cooking bananas caused by the bacterium Rationia solanaceerum Phylotye II. The disease is endemic to the Philippines, causing huge economic losses in the county ² ¹⁶ Sala distanty. The later and point back in the Philippine diset backs of 1000. However, due to the recent distanty. The later and point back in the Philippine diset backs of 1000. However, due to the recent determine is up-to-date distribution in the country. Similarly, it will also update setting is solved by one back ender the backs of the Bugks hat phone, we caller studies have end to address, the solved part of the Bugks phatement. A caller studies have enable tendency, and will estimate the Management and estandardized approximation indice to generate more information. Whole genome of these period is and estandardized part of the Studies (Bugks and estimates). Whole genome of the sue of design PCR primers for the specific detection of R. solanaceanum causing Bugkis in the Philippines.	Publication: 1 EC material on Buglok Oct (1) per-relevance and/op publicition in a scientific journal Oct (2) these shaded and/open Training on the dispatial Oct (1) these shaded and/open to the project Training on the dispatial, detection, and management of BuglokA, (Target number of participants: 20) Pace, NVP-dirp; Pacifice on the sufe movement and trade of barranas between localities in the country Paking recommendation on the control and management of BuglokA.	University of the Philippines Los Baños (UPLB)	Banana growers Agricultural officersitechnicians Non-government organizations Researchers Students	01-May-24	30-Apr-26	2024' ONGOING	5,000,000	2,943,500.03
	Integrated Crop Management (ICM) for the Rehabilitation of Banana in a Coconut Intercropping Production System [Old Title: Deployment of Coconut- Banana Intercropping Technology(DECOBAIT)]	Integrity of the environment and climate change adaptation and mitigation	The project will wild also an on-farm integrated crop management (IZM) package to rehabilitate barnar under concort. Intercopting production system. Additionally, the project will use mobiles optications generated from the SARAP Project (SpiriTech) for part learning and advancy and setting and advance and the setting of the setting and the setting and advancy and setting and advance and the setting and the setting and the setting and advance and whether (LW) for corp growth and health monitoring will also be explored in the project.	Publication: Publication: A least one publication on a peer-reviewed, internationally- abstracted journal (7)Patient: NAPAGUCA: An image database of Laiatan and abalandhab bannan growth stages (72)Patient: NAPAGUCA: An image database of Laiatan and abalandhab leapady budding in parmy bappentiatus and LO1, a VI VI Cooperative/Publicy: A policy brief of the application of BanaTech for crop insurance (Y2)	University of the Philippines Los Baños (UPLB)	Banana/Coconul Farmers; Banana Traders and LGUs Quezon and Laguna	01-Jul-22	30-Sep-24	COMPLETED	4,784,836	497,604.24
	Integrating Wild Species for Sugarcane Varietal Improvement: Advancing Genetic Diversity and Crop Sustainability	Rapid, inclusive and sustained economic growth	Cinitiat damage possesses significant challenge to sugarante production in the Philippines. Photogenet of periodic, definite rains yasson, non volveline pasti and diseases are among the escassions for the lower productify of focal came variates in addition, the threads of a namov genetic base of aurical based and the state of the sugarant. This project arms to develop new hybrits with desirable table stratement for the well kine divorce signed. Tradition galaxy, and the stratement based can addite table stratement of new hybrids produced will be characterized and evaluated during; hybrids will be examined in provement of the calabet of the calabet constant of the strate table the strate the proposed provide calabet our strategies and the calabet constant of the strategies of the provement of the calabet of the calabet constant of the strategies of PHILESURY.	Palaitation: One (1) published seatmlic paperPosidor: Thirty (20) F1 hybrids from the fI. crosses: 5 difficurent of Scontament, an Pointerium and Pointerium paperature and less (10) providing ICC) hybrids from the Transees 5. difficurium an (16) difficurium at 5. and Schwiss: For (14) hybrids from the Transees 5. and Schwiss: For (14) hybrids from the Transees 5. and Schwiss: For (14) hybrids from the Internet and Schwiss For (14) hybrids for those and Schwiss: For (14) hybrids from the Internet and Schwiss For (14) hybrids for those and Parlier dimanderstation and cylological examination of the new hybrids produced and parential species. and 11 BS/S blander will assistiopath the cylologith and the proget/Rues and Parlierating. Collaboration between PHILSURN and UPLB through Memorandum of budgetationing.	Philippine Sugar Research Institute, Foundation Inc. (PHILSURIN)	The target beneficiaries of this project are women and me breeders, researchers, sugarcane growers, millers, traders, small and large enterprises that are dependent on sugar	01-Oct-24	30-Sep-27	ONGOING	5,000,000	1,962,117.00
	Integration of Coconu-based Farming System for Increased Farm Productivity and Profitability in Sibutu, Tawi-Tawi	Integrity of the environment and climate change adaptation and mitigation	The project arms to establish a coconul-based demonstration form in Task-Taw lang Outstanding Open-Halitatiod Walled (OW) of a coconul and maket driven interrors). The demonstration and production of PCA-recommended and NBC-registered coconul hybrits. A critical part of the establishment involves the method with which the plaining materiatia are produced. The demonstrations fram will be established in a market driven interrain as produced. The consult based demonstration fram will be established in a market that all produce true be bye planting materiate and demonstrations fram will be established in a market that all produce true be bye planting materiate and demonstrations fram will be established in a market that all produce true be bye planting materiate and demonstrations fram will be established in a market that all produce true below byee planting materiate and the setting of the setting of the setting true and the setting of the setting of the demonstrations fram will be established in a market driven there are not now away from the other coconul productions. Furthermore, insighted on coconul family splates here belowing as professibly.	Pabliation Pabliation Sound at least one 1/ pablic and/or Sound at least one 1/ pablic and/or Sound at least one 1/ pablic and/or Sound at least one 1/ pablic at least sound at least one 1/ pablic at least sound at least one 1/ pablic at least dear and tal spen-patients where (at least 800 seetings planter); and Recommende automatic (at least 800 seetings planter); and planter); Recommende automatic (at least 800 seetings planter); and planter); Recommende automatic (at least 800 seetings planter); and Recommende automatic (at (1) PCA Reports); Recommende automatic (at least 800 seetings planter); Recommende auto	Philipping Research Center (PCA- zanoanga Research Center (PCA- ZRC)	The beneficiaries of the project are occonut farmers in Tawi-Taw, apricultural workers in the LGU, researchers on the possible collaboration with a local State Unversity and College (SUC), and occonut stakeholders.	01-Jul-23	30-Jun-26	ONGOING	5,000,000	969,614.00
	Interlaboratory Pulping and Paper Making Analysis GNNDAL (Backross Abaca with Native and BANDAL (Backross Abaca with Native and Desirable Accessions to Lift Up the Abaca Industry) Abaca Hybrid (Udi Title: Inter-Laboratory Pulping) Abaca Hybrid (Udi Title: Inter-Laboratory Pulping) Native and Desirable Accessions to Lift Up the Abaca Industry) Abaca Hybrid)	Integrity of the environment and climate change adaptation and mitigation	Pager is one taid commodity to human needs and achides. With the previous studies on the properties of BARDAA analysis, meastigning further to potential of the said more could significantly constitute to paper development. Thus, addressing one major problem of our paper mills which is the lack of source of good thems.	Pablications: One(1) exhincial paper Paoladin Electrologic Generated: Technical Information on pulping papeess for pulping abaca hybrids. People and Servicese: Abaca producent/fammers and abaca pulp mills	DOST-Forest Products Research and Development Institute (DOST-FPRDI)	abaca producers/farmers, abaca pulp mills, academe and the general public	01-Aug-23	31-Jan-25	ONGOING	4,869,137	802,849.00
	Participatory Management of Leaf and Root Feeding Beetes Through Semiochemical-Based Trapping and Entomopathogenic Fungi	Rapid, inclusive and sustained economic growth	A project that generary sams to evolve but and release systems for entomopathogen-intected beetles for the management of different heaf and rock-feeding beetles attacking vegetables.	Pablication: One journal publication on phenomene of leaf and condending benefacion journal publication on phenomene flag and pablication on phenomene flag design/One journal pablication on the boology and excluy or leaf-freeding beetles One guidebook on the use of semicohemicatia and entomorpathogens/Palent: UBMy model for at least 2 beetles tailonnomenia/gargingtion phenomene entradied, isolated, and demantimication/palent. J Hast 2 beetles phenomenia/gargingtion phenomene entradied, isolated, and demantimication/palent. J Hast 2 beetles phenomenia/gargingtion phenomene entradied, isolated, and demantimication/palent. J Hast 3 beetles in CALABACCM	Bureau of Plant Industry - Los Baños Matonal Crop Research Development and Production Support Center (EPH- LENCRDPSC). DA Region 4A, De La Salle University - Laguna (2LSU- Laguna)	Farmers Agricultural Technicians Researchers Students Industries manufacturing biocon agents	01-Feb-24	31-Jan-26	ONGOING	5,000,000	2,499,932.00
	Transcriptome Analysis of Philippine Mangoes in Response to Anthracnose and Cecid Fly Damage	Poverty reduction and empowerment of the poor and wilnerable	The project proposal primary and is to identify candidate genes associated with anthrancose and occub- materias to marke-assisted isoleging. The traditional breaking programs for margins is slow and markets for marke-assisted isoleging. The traditional breaking programs for margins is slow and the project will be associated breaking. The traditional breaking programs for market markets. The NA-set behaviog to learning the project market market the project will be NA-set behaviog to learning the slow provide the traditional mechanisms and genes market on disease and insect reassance that is that significantly affect the postharmest that quality of accessions. The project aims to benefit a learning that the device provide the marging that accessions. The project aims to benefit and the device provide the subscription of the accessions of the state accession and expenses and reasons. The device provide the subscription accession accession and accession and the state and the state of the provide the provide the state accession of the device accession and the state and the state of the provide the state of the provide the state accession of the state of the state of the state of the state of the provide the state of the state accession of the state of	PAbilitation: A least 1 scientific article submitted in a peer reviewed journal AF least 1 speer presented in contention-official and the second science of the second science of the second AF least 1 monocular marker for MAS People: Accommodate at least 1 BSMS student	University of the Philippines Los Baños (UPLB)	Researchers Breeders Plant Scientists/Botanists Students	01-May-24	30-Apr-26	ONGOING	4,999,960	3,494,145.23
	Utilization of Interdisciplinary Strategies and Plant Breeding Innovations for the Development of Eggpaint (Solanum melongena L.) Hapioid and Doubled Hapioid Lines	Peverty reduction and empowerment of the poor and vulnerable	Aproject that will develop eggplant haploid and doubled haploid lines through plant breading moveflons involving in slico, in vice and in vitro techniques.	Publication: A last one (I) (contentional paper pay year A last one (I) (contentional paper pay year) A last one (I) (contentional paper pay year) A last one (I) (contentional paper pay year) (contentional action on the science/actional haploids. One journal action on the phenotyping appuide to disturber enricorpapers (Contentional action on the phenotyping appuide to disturber enricorpapers (Contentional action on the phenotyping appuide) (contentional enricorpapers (Contentional enricorpation) (contentional enricorpation) (contentional enricorpation) (contentional enricorpation) (contention) (con	University of the Philippines Los Baños (UPLB)	Public and private sector institutions - academic and research institutes, enterprises involved in the egglant measurement of the enterprise involved in the egglant researchers - plant breeders, geneticitist, molecular biologists, pant hereding, Sesse culture, forait biology, plant transformation Farmers and counsenss - long-term beneficiaries of improved varieties with shortened breeding periods.	01-May-24	30-Apr-26	ONGOING	5,000,000	1,395,184.66

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
	Utilization of Queen Pineapple (Ananas comosus L. var. "Queen") Leaf and Leaf Fiber Waste for High Value Products	Poverty reduction and empowerment of the poor and witherable	The pinespile leaf liter (PALF) from a wrietly commonly grown in Costa Roz, Brazil, Thaland, Indonesis are processed for comparise application. In such case, this study is to assess the potentials of our Gases create sustainable livelihood to our farmers.	Addication: 3 Publication: Addication: 3 Publication: 3 Publication: 1. Description provide the set of PMLF hand leading in the set of PMLF for industrial use Patential QPLF hand leading in the set of QPLF for industrial use Patential QPLF hand leading in the set of QPLF ha	Camarines Norte State College (CNSC)	QP Farmers, Investors, Researchers, Students, Fiber industry, Toxille industry, Leather Industry	01-Jul-24	30-Jun-2	2024 ONGOING	5,000,000	2,886,000.00
Boosting the Taro Industry and Indigenous Crops of the Bicol Region	Project 1 Survey, Collection, and Characterization of the Indigunous Crops in Region 5	Rapit, Inclusive and sustained economic growth	As a component poper of the rongram on Boosing the hodgenous Orose hodgen yet (Biok Bogun, Hu will Boas on an exploration of Indigenous patients from the offerent provinces in the region. Collected indigenous plants will be conserved in the germplant facility of DBUN. These plants will be used as parentials of future indiatives that will incolere useful development.	Nabilitations of this populated pamphtets, 2 articles 1 paper prevention Products: Al least 5 indigenous crops for Project 3 People Services - It arining Paces are Aphenothesis - Pia, tao producars, OA practificmers Pacetas are productions - Pia, particular of indigenous copyrighted SISMScall Impact: Increased utilization of indigenous copyrighted SISMScall Impact: Increased utilization of indigenous copyrighted SISMScall Impact: Increased utilization of indigenous copyrighted SISMScall Impact: Increase production and yield of two and indigenous crops Increase Increase More products for commercialization	Central Bics (State University of Agriculture (CBSUA)	Taro famers and processors , indigenous crops growers	01-Mar-23	28-Feb-2	ONGOING	3,313,395	1,161,379.60
Boosting the Taro Industry and Indigenous Crops of the Bicol Region	Project 2. Sustainable Production Technology for Taro (Coloccasia esculenta) Leaves and Corms	Rapid, inclusive and sustained economic growth	The project will focus on the enablishes of two cost selection: In the lice region (or both lice and corm production following the NSC protocols. All accessions that will be collected from vortice parts of the deputation to Plant Genetic National Plant Genetic Resources the deputation of the production of the control of the technology through audio-issued development, participation in tade time and conduct (amere set) ensures additional income across the taio grows. This taics project will be a component of the tains Chernel to KSLAN and etch the production of the technology through audio-issued development, participation in tade time and conduct (amere set) existence and development development. The technology through audio-issued activity and the tains project will be a component of the tains Chernel to KSLAN and etch the component of the technology through audio-issues to the opponent of the technology through audio-issues to the technology through activity and the technology through activity and the technology through activity and the technology through activity and the technology through activity and the technology through activity and technology through activity and the technology through activity and technology through activity and technology through activity and technology through activity and the technology through activity and technology through technology through technology through technology through technology through technology through technology through technology through technology through technology through technology technology technology technology technology technology technology technology tech	Dabitation: Developed a sustainable production whenes for tam leaves and compo- conducted chemical and physical properties of tax corm stared grawn in different composing method. The second start and the second start of the second start of the second start A second start discussion in the optication developed for discussion for NNDC againstein-Product A second start discussion of the second start of the second start of the second start of the second start of the second start of the second start of the second start of the discussion of the second start of the second start of the second start of the discussion of the second start of the second start of the second start of the discussion of the second start of the second start of the second start of the discussion of the second start of the second start of the second start of the discussion of the second start of the second start of the second start of the discussion of the second start of the second start of the second start of the discussion of the second start of the second start of the second start of the discussion of the second start of the second start of the second start of the discussion of the second start of the second start of the second start of the discussion of the second start of the second start of the second start of the second start of the discussion of the second start of the second start of the second start of the second start of the discussion of the second start of the sec	Central Bicol State University of Agriculture (CBSUA)	Taro leaves / laing processors. Taro farmers, students, New entrepreneurs, Science community and food industry.	01-Mar-23	28-Feb-2	ONGOING	4,780,944	1,716,794.00
Boosting the Taro Industry and Indigenous Crops of the Bicol Region	Project: 3 Ullization, and Product Development of Selected Indigenous Crops in Region 5	Rapid, Inclusive and sustained economic growth	The study will focus manify on the documentation. development and utilization into food products using too and selected indgenous crops found in the Blool Region. Antapy:	Publication: Publications: Results of the project will be transformed to publishable materials for publicational students of the proposes or outpublishes the publishable materials and publishes and the processor outpublishes the galanced instance of the publishes of the programmed and the publishes of the publishes of the publishes of the publishes of the publishes and the publishes of the publishes of the publishes of the publishes of the publishes of the publishes of the publishes of the publishes the publishes of the publishes of the publishes of the publishes of the publishes of the publishes of the publishes of the publishes of the publishes of the publishes of the publishes of the publishes to both publishes of the publishes of the publishes of the publishes of the the publishes of the publishes of the publishes of the publishes of the the publishes of the publishes of the publishes of the publishes of the the publishes of the publishes of the publishes of the publishes of the the publishes of the publishes of the publishes of the publishes of the publishes of the the publishes of the publishes of the publishes of the publishes of the publishes of the the publishes of the	Central Bicol State University of Agriculture (CBSUA)	rural famers and setters community researchers business enthusiasts	01-Mar-23	28-Feb-2	ONGOING	3,076,298	1,200,718.80
Entenopathogenic Fung as Biocontrol Agents Against he Aphid Vector Pentatorian Nigronerosa Coquerel to Manage the Abace Bunchy Top Disease in Eastern Visayas	Plot testing of Lecancillium sp. as a biological indication of the second seco	Rapit, inclusive and sustained economic growth	The datas burdy top the been predent in seven municipalities in the provinces of Bilano, Leyle, and Southern Leyle since 2005, making largeholders and reducing the constraints of the seven municipalities in the provinces of Bilano, Leyle, and Southern Leyle since 2005, making largeholders and seven the seven multipality largeholders and the seven the seven seven the seven seven seven seven the seven seven seven seven seven seven the seven seven seven seven	Publications 100 Techno Guide or mass production of Lecancillium sp. (60 leaffects 50 brochures) distributed in Celsures (30 copies), Warsy (10 copies), English (10 copies), respectively. 100 Techno (30 copies), Versey (10 copies), English (10 copies), respectively. 100 Techno (30 copies), Versey (10 copies), English (10 copies), respectively. 1 promotional Verse, and 2 solenitic papers submitted in defension 4 Per application for the formulated product and application of EC Products 50 packs (100g) powdered form of Lecancillium setabilited demo farms Pacept Sarvices 25 Alacia farmers	Visayas State University (VSU)	Abora formers and leaders local flat isochrician in Billing, Leyke, and Southern Leyke ProvinceResearchers/Students ((integration in module for the topic beneficial microorganism)	01-Sep-23	31-Aug-21	ONGOING	4,432,423	1.533,659,50

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of	Total Project	2024 PCAARRD
									December 31, 2024'	Cost	GIA
Entomopathogenic Fungi as Biocontrol	Survey and Assessment of Entomopathogens Against	Rapid, inclusive and sustained	The abaca bunchy top has been prevalent in several municipalities in the provinces	Publications	Biliran Province State University	Abaca farmers through awareness and information	01-Sep-23	31-Aug-24	COMPLETED	2,015,760	2,015,759.50
Pentalonia Nigronervosa Coquerel to	Bunchy Top Virus in Eastern Visayas	coolionilo grown	of Biliran, Leyte, and Southern Leyte since 2005, making it unproductive and reducing the earnings of abaca farmers. Given that there are currently no registered	100 copies of IEC Materials on	(511 00)	drive.					
Manage the Abaca Bunchy Top Disease in			resistant varieties, managing the vector is imperative to increase production.	promising entomopathogens		Graduating students through thesis mentoring.					
Eastern visayas			are noticeable. Another control measure is the use of biocontrol agents, particularly	and its applications against aphids (50		Students (Integration in module for the topic					
			entomopathogens. Given the minimal number of studies on entomopathogens against abaca aphids and their potential applications, this project proposal was	leaflets; 50 brochures		beneficial microorganism).					
			undertaken. Survey, collection,	- 25 copies in Cebuano; 15 copies in Waray and 10 copies in English, respectively)							
			aphids will be assessed as part of this research proposal. The effectiveness of	(1) promotional							
			the isolated and identified putative entomopathogens will be validated in laboratory and screenhouse conditions. An IEC material will be developed during the 4th quarter of implementation	video 1 technical paper submitted in peer-reviewed							
			to indicate its potential application against aphids. The ultimate objective of this initiative is to increase abaca fiber output	journals							
			by at least 10% in the	Detecte (D							
			by employing an effective biological approach to manage abaca aphids, that transmit the dreaded	- active -							
			bunchy top virus.	1 UM Application							
			This initiative was undertaken as well as part of the proponent's GREAT re-entry								
			proposal.	Destinate							
				1. 1 pure culture of entomopathogen ready for							
				formulation							
				People Services							
				1.							
				25 abaca farmers							
Harnessing Abaca Genetic Resources:	Project 1. Profiling, genetic, and functional analysis of	Rapid, inclusive and sustained	This study will address research gaps in abaca agronomy which are vital for advancement of abaca	Publications €* at least 3 publications in refereed journal; 1 IEC material in the form of manuals or	Department of Agriculture - Philippine	Researchers and breeders	01-Oct-24	30-Sep-27	ONGOING	10,847,402	2,572,272.00
Management, Drought Resiliency, and On-	abaca (Musa textilis Nee) responses to drought and bunchy top disease stresses	economic growth	agriculture. I forming of respondes of ableat variable and accessions to discuss and	pamphiets	(DA-PhilFIDA)	Adaca farmers Regulatory agencies					
site Detection Assays				Product/technology Generated: Abaca accessions/varieties with resistance/tolerance to		Industry stakeholders (GBEs, traders)					
				drought and ABTV. BBTV and BBrMV: Identified genes for resistance/susceptibility to drought. ABTV.							
				BBTV and BRMV for new breeding innovations							
				People €° at least 3 people trained in molecular biology and plant virology techniques							
				Place and Partnership C Collaboration with UP-NIMBB Policy: At least 1 draft policy recommendation for abaca health certification							
				The sequencing and development of DNA fingerprints for abaca will pave the way to the revision of the							
				antiquated policies on germplasm conservation and exchange. These include prioritization of							
				using identified							
				drought-resilient varieties.änbsp;							
Harnessing Abaca Genetic Resources:	Project 2. Detection, characterization, and race	Rapid, inclusive and sustained	To develop a comprehensive strategy for the identification, on-site detection, and evaluation of abaca	Publication: Patent: Product: People: Place: Policy:	Department of Agriculture - Philippine	Researchers and breeders	01-Oct-24	30-Sep-27	ONGOING	10,404,527	2,420,165.00
Integrating Molecular Strategies for Pest Management Drought Resiliency and On-	identification of Fusarium oxysporum f. sp. cubense, and the response of selected abaca accessions to the	economic growth	responses against the causal pathogen for abaca Fusarium wit		Fiber Industry Development Authority	Abaca farmers Regulatory agencies					
site Detection Assays	causal organism of abaca wilt					 Industry stakeholders (GBEs, traders) 					
			To develop mediano and utilate a metable spectration energy for above united identification and fiber	Duklination: Detects Deadors: Deanle: Disea: Deline				00.0.03	0100000	10,100,010	0.011.000.00
Harnessing Abaca Genetic Resources: Integrating Molecular Strategies for Pest	Project 3. Development, packaging, and validation of a portable and ultrasensitive genotyping assay for	economic growth	source authentication	Publication, Patent, Product, People, Place, Policy,	Eiber Industry Development Authority	Abaca farmers	01-Oct-24	30-Sep-27	ONGOING	10,408,612	2,344,896.00
Management, Drought Resiliency, and On-	identification of abaca (Musa textilis Nee) varieties				(DA-PhilFIDA)	Regulatory agencies					
site Detection Assays						Industry stakeholders (GBEs, traders)					
N/A	Mining the Diversity of Philippine Traditional Rice	Rapid, inclusive and sustained	This		University of the Philippines Los Baños	1. Academe	01-Aug-24	31-Jul-27	ONGOING	62,920,352	19,672,495.00
	Varieties through Whole Genome Sequencing and Bioinformatics	economic growth	and genome sequences of 1000 Philippine traditional rice varieties (TRVs). The		(UPLB)	and research institutes ICT					
			project will strongly leverage the genetic resources locked in Philippine TRVs with state of the art genomic and computational technologies. The genome	Publications		maintenance and continuous development and					
			information will be used to identify the uniqueness of the Philippine TRVs, find similarities and variations and look for novel traits and genes	At least eight high quality research paper(s) in peep reviewed		curation of the PH Rice GDB.					
			Moreover, the genomic data will be used by the other project in the program, to	journals IEC materials for the training modules (publication and video)		2. Faculty and students €" Materials in					
			herbicide tolerance, earliness, low phytic acid, micronutrient-dense rice,			teaching					
			high-quality protein rice, and anaerobic seed germination. The project will lead to the identification of rice accessions which can be used as donor			science/software engineering					
			parents or be sources of novel alleles for rice improvement programs. Eventually, this may result in the development of rice cultivars that are more	Patents/IP		courses. Will provide a platform for great					
			nutritious and resilient to the effects of climate change.	NA		students, i.e., through internships and thesis					
				104		studies.					
			in .			3 Anbsp: Researchers breeders academe and					
			addition to genome sequencing of 1000 TRVs, a reference genome specifically of the economically important variety Dinorado will be assembled and annotated	Products		students €"					
			using available literature and RNA sequencing data that will be obtained from			Identification of genes/genomic regions and annotations of these for genome to					
			genomes will be determined. The large amounts of data that will be generated	1. Production of Dinorado standard reference		phenome trait discovery					
			will be stored and curated in a database that will eventually be made available to the public. Human capacity enhancement will be through the conduct of	genome with annotation 2. The PH Rice GDB created for use by breeders		4. : Farmers as ultimate beneficiaries. These					
			trainings on various relevant bioinformatic analyses and the development and use of a database.	and researchers 3. Structural variants and pan genomic core and		bioinformatics resources will accelerate the					
			8nbm-	adaptive genes 4 & https://www.initiality.genome.variant.calls.of 1000		development and delivery of improved varieties by rice breeders enabling					
			The	traditional rice varieties against multiple reference genomes (e.g., Azucena,		farmers to obtain higher yields					
			project is a collaboration between the Philippine Genome Center (PGC)	5. New tools developed that will enhance the		with improved varieties.					
			Research Institute, University of the Philippines Los BaÂtos, and the	exisiing Application Programming Interface (API) frameworks of SNP-Seek in the PH Rice GDB							
	3D Printing Using ITPS-Derived Lignocellulosic	Rapid, inclusive and sustained	The planting of industrial tree plantation species (ITPS) is desirable from both an environmental and economic	Publication: One (1) IEC material, i.e., information bulletin/brochure about the extraction of cellulose and lippin using a new method and its potential & for the production filamente for	University of the Philippines Los Baños	The target beneficiaries of this project are forest-	01-Apr-23	31-Mar-25	ONGOING	4,999,999	1,367,978.16
	biomatefiais (ITPS3D)	economic growth	standpoint. ITPS provide cover to degraded uplands and enable farmers to earn	3D printing Å Drafts of two (2) scientific articles submitted for publication in peer-reviewed	(UPLB)	farmers, Å, 3D printing industry, other related					
			in plantations are less favored by local wood processors because of their	One (1) invention disclosure application for the developed protocol for the production of and		downstream industries and consumers who are					
			preterence for wood from natural stands, both as a matter of familiarity with their properties and because customers still continue to demand products from	the ITPS3D filaments; One patent/utility model for the developed protocol for the production of and the ITPS3D		products.					
			natural timber. Thus, ITPS timber do not command a high price as naturally-grown timber when sold in traditional markets. Also, owing to the	filaments Å Product: Protocols for the extraction of lignocellulosic material from ITPS and nonduction of		ľ					
			poorer form and smaller size of ITPS timber, their processing generates more	ITPS3D filaments; ITPS3D filaments;							
			to harness these wastes in order to realize more value per cubic meter of the	3D-printed products							
			matenai. anosp; file project will explore the utilization of nanocellulose and lignin from ITPS as ITPS3D filaments for 3D	[A reopie: Une (1) graduate/undergraduate student with thesis on 3D printing using ITPS3D filaments;Å.							
			printing. With inherent biocompatibility and tunable properties, lignocellulosic materials are being considered as promising materials for use	One (1) technical personnel trainedPlace: One (1) partnership with ITPS plantation owners/farmers or ITPS processing plant or the Additive Manufacturing Center (AMCen) in							
			in the rapidly emerging field of 3D-printed biomaterials (Liu et al. 2019a; Zama et al. 2021). Biocomposite preparation by 3D printing is expected to see	the form of MOU or MOA; Improvement of the EPPS Forest bio-Materials Research LaboratoryPolicy NA							
			tremendous commercial growth. The global 3D printing market size is expected to	Providence of the contract of							
			(Report Linker 2021). (Report Linker 2021).								
			0								
			new and	1							
			exciting opportunities in utilizing the waste from ITPS processing, considering the possibilities of deriving new wood-based products and obtaining products								
			modified with wood-derived materials capable of enhancing product quality and performance. The development of these products, which could meet the demands of								
			a wide array of industries. ITPS3D will generate greater value for these								
			ITPS for 3D printing applications may translate to expanded market opportunities								

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
	Application of eDNA Metabarcoding in Faunal	Integrity of the environment and	This research project is part of a regional collaborative research submitted to East Asia Science and	Publications	Mindanan State University (MSL)	The target beneficiaries of the	01-May-22	30-Apr-25	2024'	14 937 641	3 702 730 36
	Sodiversity Assessment of Indo-Pacific Mangroves Vulnerable to Climate Change: Philippine Node	climate change adaptation and mitigation	Innovation Area Joint Research Program, or e-ASIA JRP, a multilateral international joint initiative between a number of public funding organizations of the East Asia summit (EAS) member countries, incluring Japan, Indonesia, Philippines, entitled caApplication of eDNA metabarcoding in faunal biodiventily assessment of Indo-Paolic mangroves withorable to direct chance and to other funding asserting for non a-ASIA member countries (Thailand	1 project brochure 5 publications to national/international indexed journals 6 posters of species and/or SDM maps Patent	Naawan)	project are the following:- Mangrove conservation managers from DENR, BFAR, and LGU (Municipal Agriculture Office. Municipal	01111111111	0074720	oncomo	14,007,041	0,702,700.00
			South Africa, Malaysia). This collaborative research project for Philippines aims to determine the change in biodiversity of fish and benthic nearcoinvelonates select mangrove assar of the country following a standardized biomonitoring loci, that be equate environmental DNA and application of	1 copyrighted scientific poster People and Servicess		Environment and Natural Resources Office)- Fisherfolks and local coastal communities- Pool of mangrove and marine					
			Species transaction indexing (covid). Init tails and anomation take will be glabited in the rimplines will be incorporated for analysis on Indo-Pacific mangrove eccosystems through the collaboration. The eDNA approach will serve as a new indicator for evaluating species biodiversity in mangrove eccosystems. Incorporating with Species Distribution Model analyses, the study will provide prediction of	L2 project members unlied of EUXM products 4 young or early career researchers ¹⁰ capacity building on eDNA 25 LGUANKAs technical staff trained on faunal diversity assessment using eDNA 5 LGUs with enhanced mangrove conservation strategies through workshops, fora, and/or		biodiversity researchers or networks- SUCs- Early career ocean professionals and technical staff					
			species distribution under different climate change scenarios and/or environmental conditions. Given the multitude of eccesystem serviced by mangrove eccesystems, it is important to understand their potential responses to global climate change of which faunal biodiversity assessment can provide baseline	research nvolvement 3 DOST-FC/MRRD GREAT Scholarships 4 DOST-SEI undergraduatelgraduate scholarships 2 project staff and 3 Ras capacitated by PGC on the genetic laboratory works							
			contribution. Climate change is likely to have a substantial impact on faunal diversity of mangrove ecosystems in the Indo-Pacific through various impacts resulting from sea level rise (SLR), changing ocean currents, increased storminess, increased temperature, changes in precipitation and increased CO2. These factors are inter-related and spatially	1 PhD MEXT (Japanese Government) Scholarship Places and Partnership 5 sites of mangrove forests monitored for fish and macrobenthic invertebrates towards							
			variable on inter-regional scales. Challenges in doing biodiversity monitoring can be addressed by application of innovative tool, such as the eDNA. This approach is easy to be standardized across countries, under a system of collaborative work and canacitobuilding. Brew sensence datasets will be produced	biodiversity conservation strategies 7 Philippines agencies involved 3 International collaborations established 5 coastal communities with better appreciation on manorove ecosystems through							
			which will become reference for annotated species list and distribution models across climate change scenarios. Enhanced environmental awareness, policy guidelines, and scientific reports are also targeted as some of the outputs.	community fora and/or participatory data collection 2 Collaborations for scholarships: DOST-PCAARRD GREAT and DOST-SEI 1 collaboration with Japanese University for the MEXT Scholarship							
				Policy I Policy brief on how eDNA metabarcoding, a noninvasive tool for biodiversity assessment, can resolutionize biomenitoring approach in mangrove ecosystems I Policy brief on conserving the faunal biodiversity in the mangrove ecosystems I Policy brief on the importance of networking among researchers and local stakeholders I Policy brief on the importance of networking among researchers and local stakeholders		 Academic graduate and undergraduate students 					
	Artificial Intelligence-Based Diagnostic Clinic for Detection and Monitoring System for the Management	Integrity of the environment and climate change adaptation and	This project deals with providing intervention in increasing rubber quality and production, addressing the issue of lack of efficient and effective surveillance, detection, clinic for rubber experts, and monitoring system of rubber diseases and insect cests through the development of artificial intelivence-based	esp. in the growing molecular era of biodiversity assessment/ monitoring Publication: At least 1 paper presentation in a conference At least 2 scientific papers	Philippine Rubber Research Institute (DA-PRRI)	, , The beneficiaries of this project are the Rubber Farmers, Rubber Cooperatives, LGU,,s, and	01-Oct-22	31-Mar-25	ONGOING	5,000,000	1,051,714.84
	or Rubber Diseases and insect Pests	mitigation	databases and online platform for information dissemination, diagnostic cirric, and monitoring system for the management for rubber diseases and insect pents. The development of an online database and platform for diagnostic clinics and monitoring systems is based on R&D needs, problems, and gaps identified hv DDST LANPRR I PCAE and TWIG for the nubber diseases as an output of consultations and	At least 1 paper presentation in a conference 1 IEC materials; 1 promotional video for the promotion of the technologY Patent		SUC,*,s In SUCCSKARGEN, Zamboanga Sibugay, Davao de Oro, Basilan, Palawan and Negros Oriental and Agusan del Sur.,					
			discussions in collaboration with SUCs, government, and private agencies. Thus, this project is timely and relevant. This technology could have particular benefits to tubber farmers, associations, LGUs, SUCs, researchers, and other rubber stakhediders and could have a great impact from small to	Copyright for the database and online platform for rubber diseases and insect pests Product:							
			Ladge-scale rubber stakenoloers in the country. Into project will be implemented in major rubber producing provinces in the country. After the project completion, an artificial intelligence-based contralized database system and online platform for detection clinics, monitoring, surveillance and reporting system of rubber diseases and insects will be developed for the productivity of the rubber industry in the country.	Prote or rubber diseases and insect pess in the Prilippines Database for diagnosis of rubber diseases and insect pess Pool of plant doctors for an online rubber clinic Artificial intelligence-based, powered diagnostic clinic and monitoring system Online database platform for information dissemination of rubber diseases and insect pests							
				People: 1 undergraduate 1 PhD/MS graduate student 1 capacity building training to promote the technology for at least 50 rubber farmers							
				Place: Partnership with small scale rubber growers and rubber farmer,¬,s associations, DOST, LGU and SUC							
				Pelicy: Certification of online platform for diagnostic and rubber clinic Protocol for reporting and discerninating information of the observed incidence of rubber diseases and insect pests							
	Assessing the Environmental Footprint of Bamboo	Rapid, inclusive and sustained	As	Publications Year 10ne (1) Press Release from one of the BTF	DOST-Philippine Textile Research	This project aims to establish an environmental	01-Jul-24	30-Jun-26	ONGOING	4,497,791	3,020,395.50
	Textile Production: A Life Cycle Analysis (LCA) of the Bamboo Textile Fiber (BTF) Innovation Hubs	economic growth	Concurses in cristianizity promite minimization (minimized product), some concurses in protect this december particle, comparison emula support their environmental claims with reliable evidence of heir products (mpact. One effective method for qualifying a product or process's environmental mpace is life cycle assessment (LCQ), a standardized and rystematic approach that enablishes a product a environmental exists for handpace for the cycle. The standardized and rystematic approach that enablishes a product a environmental exists for handpace for product products and the cycle. The cycle advertising rayon totiles as bandpo products. Despite bandpo being used as a mar metarial, almostic obling undergeas en highly policing denies process.	monitorial rules de la construit de la constru	Institute (DOST-PTRI)	assessment scheme for bamboo yam/textile production, which will have direct and indirect banefits. Through capacity building and the creation of a comprehense LCA framework, the BTF Innovation hubs will have the necessary knowledge and tools to carry of usuatianable and effective environmental impact analysis. This will enable them to identify areas for improvement and opportunities for cost savings, leading to a more sustainable and efficient production process. In turn,					
			The other Name 2005/FTP3 processors sustainable and authentic banchoo basile Rese using methanom-chemical processor. In differentiate and quantity the environmental impact of banchoo leafle products and processes, an environmental support optimum of the same and severe environmental impact, and a methanism of the same and severe environmental impact, and a "https:// in the production process. Additionally, LCA-an help impact product bio monophility processor. Additionally, and the environmental impact. In the production of the memory processor and the model angular the same and environmental impact. Circland y enaluating and verifying LCA results can also help businesses and circland angular grant verifying LCA results can also help businesses and circland angular grant verifying LCA results can also help businesses and circland angular grant verifying LCA results can also help businesses and circland angular grant verifying LCA results can also help businesses and circland angular grant verifying LCA results can also help businesses and circland angular same and verifying LCA results can also help businesses and circland angular same and verifying LCA results can also help businesses and circland angular same and verifying LCA results can also help businesses and circland angular same and verifying LCA results can also help businesses and circland angular same and verifying LCA results can also help businesses and circland angular same and verifying LCA results can also help businesses and circland angular same and verifying LCA results can also help businesses and circland angular same and verifying LCA results can also help businesses and circland angular same and verifying LCA results can also help businesses and circland angular same and verifying LCA results can also help businesses and circland angular same and verifying LCA results can also help businesses and circland angular same and verifying LCA results can also help businesses and circland angular same and angular same angular same angular same ang	$\begin{split} & Ore (1) (LoCA framework for the Barehoo symbolic flow of the CA framework for the Barehoo symbol flow of the CA with the Barehoo Strategies Vest Theo (2) persons will be frame of the LCA with the Three Theorem (2) performs the LCA charakys: Three (2) persons trained on how to use Banehoo Texitie Fiber (BTF) Innovation Hubs database$		this will benefit our local farmers and bamboo supplies through effective markeling strategies and a more stable demand for their products. Overall, this project will contribute to the development of a more sustainable and circular economy for the Philippine tasking industry, while also supporting the livelihoods of our local communities.					
			and marketing can help businesses make informed decisions and prioritize sustainability, benefing both the environment and heir bottom ine. Furthermore, integrating product tacability, which haces the entire product life cycle from raw material to finish products, addresses greenwashing concerns and enhances sustainability efforts.								
	A		The state of the band and the state of the	One (1) MS graduated Places and Partnerships Year 1 Three (3) collaborative agreement with Biamboo Textile Innovation Hub Partnership with Department of Agriculture Region 11 and 12 Year 20ne Definition On Department and environment of Lenders should be environ	Dhillipping Dubber Despeech leafilide	Different october at the state of the famous	04 100 22	20 Nov 24	CONDUCTED	4 000 000	4 000 474 68
	Assessment of various nuber-based cropping systems for enhanced production of smallholder rubber farmers in different climatic types of the Philippines (OI Title:Assessment of Various Rubber- Based Agroforestry Models/Systems For Enhanced Production of Smallholder Rubber Farmers in Different Climatic Types of the Philippines)	integration and environment and climate change adaptation and mitigation	nober and to aligned on the development stategies of Philippine holder industry which is to expand production and improve perilamition. The monochronic with the expanding production and improve perilamitors. The monochronic with the expanding production and improve technologies and good apricultural productions and monochronic perilamition. The Monochronic perilamitian and the industry of a production. The state of the technologies and good approximation and the stress field and the stress field and the stress of the development perilamitian and the stress field and the stress of the development perilamitian and the stress of the stress of the development perilamitian and the stress of the development perilamitian and the stress of the stress of the development perilamitian and the stress of the development perilamitian and the stress of the stress of the stress of the stress of the development perilamitian and the stress of the stres	One (1) Identiation Buildin for Palky recommendation on nubble-based lamming system One (1) Identiatial Journal One (1) Identiatial Journal Date (1) Identiatial Journal Patter: htt Applicatel Product Book on Competition of Indext-based apploresting systems-Rough Calculated 2 MBs scholars in agriculture specialized in nubble-based applorestry and on applicational economic	(DA-PRRI)	Uniterini futuber statemotoers (robor harmers, LGUs, NGO, Research institutions, SUCs, other government agencies etc.)	01-301-22	30-1409-24	COMPLETED	4,996,099	1,203,174.00
			condition will be justifiabled and disseminated, and forum will be conducted in order to enhance localizings of smallhold formers on this system	30 participants on the forum of Rubben-Based Agelorentry System Pace: A tesa eleven (11) PLGU coordinate for gathering of secondary data At least deven (17) PLGU coordinated for gathering of secondary dataPolicy. Cent (17) Pulloy advaccues prepared for LGU PAOA and MON improving manifold character famous productivity by adopting appropriate subben-based agerdorentry for their situation,							
	Assessment, Nutrient Profiling, and Propagation of Economically Important Terrestrial Snail Species in Selected Key Biodiversity Areas (KBAs) of Cebu Island, Philipines(An Alternative Food Source to Strengthen Food Security amidst Pandemic: Land	Rapid, inclusive and sustained economic growth	This study is in support of the NICER project of CTU-Argo Campus on biodiversity assessment of fora and founs in Ciou Mator Mator. The NICER project on slowing-with assessment of this can ad fauna in Cebu lation Has led to the inventory of land snaits deversity in the area. Land snaits are essential both as bio indicator for nationes biodiversity and health status of core habital. Its coorgations nervices include breaking down and recycling of organic matter, transfer of calcium nutrient to higher trophic levels and as food sources for the animats.	Year 1 People and services - at least 10 student mentored Places and Partnership - MOA with DA, DENR, Philippine Science High School Region 7 and LGUs, Local Community Year 2	Cebu Technological University (CTU)	1.FARMERS - utilize land snail as another farm products to increase yield and income. 2.STUDENTS - increase knowledge and awareness of the ecological and economic importance of land snail.	01-Aug-21	31-Jul-24	COMPLETED	4,998,858	826,396.22
	Snatl Farming and Nutrient Profiling of Economically Important Land Snail Species in Cebu Island, Philippines)			Publication- Two (2) articles drafted for publication in ISI-Scopus indexed journal Product - One (1) food formulation with nutriter profile; One (1) with of micro-museums using Gawugmented RealityE technology; One (1) manual (Technoguide) for terrestrial snall faming		3LUCAL COMMUNITIES - embark on a communal land snail farming and protection of habitat. 4LGUs - formulate policies for a comprehensive compension plan for molections.					
				Pratem - copyright application for the developed manual (Technoguide) for terrestrial snall famming People and services - Seminar/Workshop on food development using landsnails; at least 10 students trained/mentored places and Patrimership - MOA with DA, DENR, Philippine Science High School Region 7,		conservation plan for malacolauna.					
				LGUs, local community Policies - One (1) policy recommendation related to the conservation of ecologically and economically important terrestrial snails							

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31.	Total Project Cost	2024 PCAARRD GIA
	Rambas ACTIVE Phy Activated Carbon Through	Integrity of the environment and	Bamboo activated carboo from Philippine bamboo species will be used to develop prototype products	Publication	DOST Earost Broducts Research and		01 Oct 22	20 Sop 26	2024'	4 000 409	1 106 262 00
	Innovation for the Vulnerable Sectors and the	climate change adaptation and	with industrial applications. Activated carbon from bamboo are used in many applications such as for medicine, food and drinks, cosmetics and personal hygiene. In the Philippines, very little information is	Local Publicatino 1)IEC Material (1)0	Development Institute (DOST-FPRDI)	Men and women in the disaster-prone areas in the	01-001-20	00 OOP 20	0.100.10	4,000,400	1,100,002.00
	Entrepreneurs in the Philippines	mitigation	known about the use of our local bamboo species for the production of the abovementioned products. This project aims to determine the characteristics of activated carbon from different bamboo species	oBrochures oFlyers oVideos oPress releases, news and feature articles (tri-media, social media) oPoster oInstructional/Training		Bamboo plantation owner, bamboo industry and					
			and to develop products for various industrial uses, particularly in disaster-prone areas.	materials/Modules		general public					
				Patent/Intellectual Property: Patent/utility model application file for bamboo activated carbon (1)							
				Patent /utility model application file for bamboo activated carbon hygiene products (1) Patent/utility model application file for bamboo activated carbon water filter (1)							
				Patent/ utility model application file for bamboo activated carbon wound patch (1) Copy rights (10) oBrochures oFlyers oVideos oPress							
				recesses, news and rearure articles (in-media, social media) oPoster oInstructional/Training materials/ModulesProduct:bamboo activated carbon (50)bamboo activated carbon (50)bamboo activated carbon (50)bamboo							
				activated carbon wound patch (50)People and ServicesTrainings/seminars/workshops conducted (60 pav)Deca and Patchershings/seminars/workshops							
				partners Project sitesMemorandum of Agreement/Understanding forged							
				Difference		-					
	Bamboo LEAF Ph: Leaf Extracts Active Formulations from the Philippines	Integrity of the environment and climate change adaptation and	Research and Development Institute of the Republic of the Philippines have reached the agreement to lightly anyly the key international connection preserves and development residers and have acreed on	Publication: 1 local publication for Year 2 5 LFC materials for serum and lotion for Year 1 and Year 2 (Intel of 10 LFC materials)	DOST-Forest Products Research and Development Institute (DOST-FPRDI)	Skincare consumers who are interested in eco- friendly and sustainable productsSkincare	01-Oct-23	30-Sep-25	ONGOING	4,999,816	1,136,204.00
		mitigation	the following areas of cooperation for project application of debamboo charcoal/bamboo-based activated carbon prenaration for bamboo indicativated and the structure substance extraction technology in the	brachures		manufacturers and industry practitioners—Local communities and bamboo farmers who can					
			Philippines. This research aims to develop skincare products using leaf extracts from selected bamboo species in the Philippines. Specifically, the research will focus on extracting and characterizing bamboo	flyers videos		potentially benefit from the production of bamboo leaf extracts as a value-added product-Government					
			leaf polysaccharides, polyphenols, and flavonoids. In addition, this study will also involve prototype product development, evaluation of product effectiveness, assessment of acceptability, cost analysis,	press releases posters		agencies and policymakers who may use the					
			and formulation of commercialization strategies.	instructional / training materials / modules and newsletters		friendly initiatives in the skincare industry.					
				Patent:							
				1 Patent / UM application filed for serum for Year 2 1 Patent / UM application filed for lotion for Year 2							
				Patent / UM application filed for process of producing bamboo flavonoids and polysaccharide for Year 2 for year 1 consider for Year 2 (intel of 10							
				copyrights of IEC materials)							
				50 pieces of serum for Year 2 50 pieces of letion for Year 2							
				People: Training / seminars / workshops conducted / organized (50 pax) for Year 2							
				Place: Established laboratories for Year 1							
				Sino-Philippines Bamboo Research Joint Laboratory							
				Partner institutions and collaborating partner for Year 1							
				Jiangxi Academy of Forestry							
	Bamboo LIQUOR Ph: Local Innovation for Quality Use	Integrity of the environment and	This study aims to provide a more sustainable alternative to organic pesticides and help eradicate the	Publication	DOST-Forest Products Research and	Onion farmers	01-Oct-23	30-Sep-25	ONGOING	4,954,999	1,145,249.76
	as Organic Pesticide Resources in the Philippines	climate change adaptation and mitigation	infestation of insects, particularly the fall armyworm (cutworm) and onion armyworm (OAW) in local onion farms. A bamboo pyroligneous liquid (PL) formulation shall be developed and validated in the actual	At least five (5) IEC materials for organic pesticide from	Development Institute (DOST-FPRDI)	Producers/Manufacturers of organic pesticides					
			farm setting to test its efficacy, commercial potential, and applicability in minimizing the harmful effects of the cutworm and OAW in onion farms. This is in partnership with the Bureau of Plant Industry of the Dependence of Applications (DA PDM). Deductions of Lember 2011 and participation shell be	bamboo PL (brochures, flyers, video/press releases, instructional and training materials) by the second year of the project							
			Department or Agriculture (UA-BH). Production or barnoot PL and petitide formulation shall be assumed by DOST-FPRDI, which includes laboratory tests and preliminary field verification. In sentent actual field explications will be implemented by the DDI antimicativity. Core Detection and	Patent/Intellectual Property							
			Management Division (CPMD).	At least one (1)							
				intellectual property right (patent, or utility model) related to the technology produced and subsequent modification, if processary, at the end of							
				Year 1							
				Copyright for IEC							
				materials in Year 2							
				Product- Technology package of the bamboo PL for cutworm							
				and OAW in Year 2 ⁻ Pesticide for cutworm and OAWPeople and Services-							
				At least 10 workers of the identified partner-cooperators shall be trained on how to make and apply the bamboo PL in Year 2Place and Partnership-							
				Agreement with partner cooperators that shall simulate the field conditions of applying the technology in Year 2.							
				At least three (3) partner cooperators identified							
				Partnership with Jiangxi Academy of Forestry on separation of tar and PLestablishedPolicy							
	Biofunctional Potential of Cacao Pod Husk and Cacao Bean Shell for the Eabrication of Bio-based Materials	Rapid, inclusive and sustained economic growth	t⊭¿The global cacao supply deficit continues to increase every year. Based on the latest data from the	Publication: 1Patent: 12Product: 14People: 31Place: 38Policy: 48	De La Salle University (DLSU)	Cacao industry including farmers, extension workers, researchers, other stakeholders, and	01-Nov-24	31-Oct-26	ONGOING	5,000,000	2,856,503.60
		containe grown	International Cocoa Organization (ICCO), the global supply during the 2023/24 season is expected to further decline resulting in a higher deficit than			decision makers					
			previously expected. This market demand incentivizes growers to produce more but certain constraints must first be overcome. These constraints include								
			Infestation from pests and diseases that greatly impacts production. The Philippine Cacao Industry thus created The Philippine Cacao Industry Roadmap								
			(20216-2025) that updated the 20176-2022 Roadmap. The new roadmap contains innovations to realign its vision, mission, goals, strategies and interventions								
			whit retervants national and international porcises and frameworks including the Agriculture and Fisheries Modernization Act of 1997, the United Nation€™s Starthinship Development Coale: the AmBirupe Nation 2000 the Difficience Development								
			Plan, and the proposed Philippine Cacao Industry Development Act. One of these stategies is to promote agrressively value-added products devived from cacao.								
			production. The technologies that will be developed in this project will therefore add to the products that can add value to wastes generated during								
	Community based Varification of Fitor Futors"	Integrity of the conference in	production.	Dublication: Tan (2) technical articlas on the first multi-of locality elements of the	DOST Philipping Testile Deserve	1 Enmon Forming communities 0. Configuration	01 0-1 22	21 14 00	ONGOING	16 950 000	2 402 570 00
	Technology using Local Bamboo Species as a Textile	climate change adaptation and	lower greenhouse gases emission, and are biodegradable. In comparison with other sources of natural fibers, hambons have a high growth rate and can perform early and other sources of natural fibers.	 Abra and PangasinanPatent: Two (2) IPs (Utility model/industrial design for fabric medicerul using the bamboo blended and natural while fiber blended using for fabric 	Institute (DOST-PTRI)	Handloom weaving communities,	01-OCI-22	3 i-Mar-25	ONGOING	10,009,908	2,403,570.00
	Material	mitigation	sequestration wherein plants capture carbon from the atmosphere and can period their biomass (leaves, brancher, and pole) during their growth. Saveral truting schward that brancher.	50kgs of bamboo fibers for each identified three (3) local Bamboo species in Abra and Dengasina 200km bamboo blended urany Two (2) proteins of fibering developed Boopley							
			reinforced with other composites to further improve the mechanical properties of bamboo fibers. Because of the abundance of bamboo species in the Philippines and its distinctive properties. PTRI	Ten (10) people trained on bamboo textile fiber extraction and natural fiber treatmentPlace: Two (2) Memorandum of Agreement forced with local organizations in Abra and							
			develops more environment friendlyprocesses to extract bamboo textile fibers using previous bamboo species that have been evaluated. The Philippine Textile Research Institute (PTRI) bamboo technology	Pangasinan,Policy:One (1) policy recommendation on the sustainability of bamboo raw materials for textile utilization							
			evaluated 12 Philippine Bamboo Species such as Anos (Schizostachyum lima, Bianco, Merr.), Bayog (Bambusa merilliana, Blanco, Merr.), Kawayang-kiling (Bambusa vulgaris, schrad), Puser (Cyrtcohloa								
			puser, s. dransf.), Buho (Schizostachyum lumampao,Blanco, Merr.), Laak (Bambusa philippinesis, sp.2), Black Bamboo (Gigantochloa								
			atroviolacea, Widjaja), Green Buho (Schizostachyum brachycladum, Kurz), Iron Bamboo (Guadua angustifolia, Kunth), Kayali (Gigantochloa atter, Hassis, Kurz), Machiku (Dendrocalamus								
			laterorus, wunro) and i halland Bamboo (Thyrsostachys siamensis, Gamble) in its GN funded project implemented last year. Evaluation of different bamboo ranging for the degrad progeting such as espinability over a such the success of the success of the								
			has been a crucial part in investigating which bamboo species is feasible as a textile material. After the assessment of bamboo species the technology of the provided as a textile material. After the assessment of bamboo species the technology of the restriction will be provided at exactling form.								
			sites in Northern Luzon.								
			This project will verify the fiber processing and extraction at the community level. The same procedure will be conducted								
			such as mechanical extraction, alkali treatment, yarn processing, and weaving of prototype fabrics. PTRI will collaborate with local bamboo farms in Northern Luzon specifically in Pangasinan and Abra.								
			Local farms under consideration include CSfirst Green Bamboo Factory (Bayambang, Pangasinan), and in Western Abucay								
			Farmers Cooperative in Licuan-Baay, Abra where most of the bamboo species are abundant in the province. This will include the engagement of local communities in fiber processing where the members								
			will be allowed to partake and learn the fiber extraction in their respective areas and to grapp information about equipment operations in fiber								
			textile fiber for each species will be characterized for its fiber property and processability. the deployment of fiber processing technology will benefit the communities by involving them in the most								

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
	Comparative testing and plotting of Stuperior Yemane, Bagnas, and Mangjum clones for Improved Wood Production in Regions 10, 11, and 13	Rapid, inclusive and sustained economic growth	The project off serve as an initial stage for the tree moreoment program for TPA in Mindrano. Upgroup Homme, Bagna and Mingruh by conducting pilot letting of other program for the pilot motion there using performance evaluation in terms of growth, survival rate and their adaptability to different motionmental conditions divisor;	Publication: I article on rejevention protocol: 1 article on refix performance of clores: 3 trachurse on macroscolic protocol programs (m, and 1 brachure (m, each), and the periodic protocol on the improved planting materials of 31TP special-brach- terial and transmission of the second	University of Southeastern Philippines (USPP), Central Mindano University (CMU), Agusan del Sur State College of Agriculture and Technology (ASSCAT)	DENR/RGP participants, Immer the growens, forest norsery operators, IP industries, students, researchers and academe	01-Nov-24	31-Oct-27	ONGOING	18,834,308	7,795,560.24
	Conservation and Management of Mt. Arayat Protected Landscape (MAPL) through Enhanced Community Participation	Rapid, inclusive and sustained economic growth	This project is a solicited proposal from PSAU under PCAARRD's Biodiversity Saamp, T program It will specifically address the conservation and management of biodiversity resources in MAPL through ecotourism	Publication: 2 PublicationsÄ, Patent: Copyrighted IEC Materials and Training GuideProduct: DevelopedÄ, ecotourimsÄ (tor Mt. Angvä Protected LandscapePeople: 4 Trainings on Wildlife Literacy and Tour GuidingPace: Eight barangsga send two municipalitiesÄ, partnership developedPolicy: 1 Policy Recommendation in Ecoutourism	Pampanga State Agricultural University (PSAU)	Locals of the communities surrounding Mt. Arayat.	01-Jan-23	30-Jun-25	ONGOING	4996.231.60	2,064,834.20
	Conservation and Management of Mt. Arayat Protected Landscape (MAPL) through Enhanced Community Participation (Phase 2)	Rapid, inclusive and sustained economic growth	The project aims to improve the conservation and management of Mt. Arayat by identifying key species for protection, monitoring biodiversity, assessing the value of these species, assessing the sustainability of the conservation tourism activities, and strengthening local community involvement.	Publication: 1Patent: 10Product: 16; 27People: 31; 32; 37Place: 44Policy: 48	Pampanga State Agricultural University (PSAU)	Local communities surrounding MAPL • Academic institutions within 10km radius of the MAPL	01-Dec-24	30-Nov-26	ONGOING	5,000,000	2,688,732.00
	Development and optimization of micropropagation protocol for selected bambos species (Old Title: Optimization of micropropagation protocol of genetically-venified superior bamboo species)	Integrity of the environment and climate change adaptation and miligation	Bankoos are essential non-kinete forest species in the world bacause of their adaptability quick physical growth and development that must be invested in marked the construction and influence physical growth must be the high eccentric potential. Processing temptoon the a webly of learn to marked the structure of the structure physical Processing temptoon the a webly of learn structure. The structure of the structure o	Pacifications Manuscripts on backsorp energinesed journal 1-Protocol development for tissue culture of mass production 2. Genetic profiles of selected banksorp segrets. 3. Microbial endphysics elimination for tasue culture of banksor Theorem and the selection of the second selection of the selection form mass culture. Products Products Products Container of Johannics and theorem and the selection Minimum of 100 Paraliteis from tissue culture of each bamboo species Protocols for tasue culture of tasue of theorem and the selection Protocols for tasue culture of tasue culture Paces and Participation on tissue culture Paces and Participation of Torsein y and Natural Resources and College of Apriculture and Focksore UVELI In the representation of the project established Paces and Participation Patientity batteren the College of Foreshy and Natural Resources and College of Apriculture and Focksore UVELI In the representation of the project established Paces and Participation Data plot proceemendiation the commercialization of the and culture plantee, propagation by fassion culture, and commercialization of the culture plantee, production and commercialization of tissue culture bamboo plantees	Unversity of the Philippines Los Baños (UPLB)	The results of the study will benefit various stakeholders including the forestry sector, and the DENR in designing and implementing conservation and the sector share the DENR in designing and the government "* National Greening Program (NGP) and other forest rehabilitation program will also benefit through the availability of increased number of bamboo planting materials through tissue culture.	18-Aug-22	15-Aug-24	COMPLETED	3,497,070	648,849.02
	Development and Standardization of Four-Sided Bamboo Stat Panal-Scale Enterprise Production of Engineered Bamboo	Repid, inclusive and sustained economic growth	One of the second secon	Publication: Results of the reason will be schemided for publication in pre-eventeed of model. A Product. The developed machine wave as a tanging branch or produce point on the registrated or mass produced for use by small-case enterprises for their branch provinting Peopler. The developed machine was have as a tanging branch the branch of the machine can also be provided to genetics. Place: The development of the prime of the branch can also be provided to genetics. Place: The development of the prime extension set of the branch prime prime between Careful Microanus University extensions provided to genetics. Place: The development of the prime extension set of the store of a prime prime between Careful Microanus University extension processing Palay: This encloser can result to possible policy and/or program by the government to address the specific needs of small-case bandhoo enterprivers.	Central Mindanao University (CMU)	1.Snotps, Small and Medium Scale Bamboo Enterpresentage.Zohosp. Load Intercators and machine operators/antep:2.Snotps, Craftmen and women in the bamboo processing industry/knoup;	01-Mar-23	28-Feb-25	ONGOING	4,999,880	961,000.00
	Development of Plant Extract-based Wood Protection Treatment For and From Selected Plantation Species	Rapid, inclusive and sustained scoromic growth	Note: In an important front researce which has been used for which in housing againstance. In not provide limited to contraction, limitume, having and the condition is further againstated with a load is uniformative in the strange strange strange strange strange strange strange strange strange and extension and the strange strange strange strange strange strange strange strange strange and destingtion against strange strange strange strange strange strange strange strange strange and destingtion against strange strange strange strange strange strange strange strange strange and destingtion against strange strange strange strange strange strange strange strange strange and destingtion against strange s	Porbubationen VEA1 Ore (1) EC matter of doe estudion and formulation of potential plant-based presentatives VEA2 20 cm (1) manuscript for publication approximation presentatives VEA2 20 cm (1) manuscript for publication approximation presentatives applications for the developed product/formulation provides VEA1 VEA1 VEA1 VEA1 VEA1 VEA1 VEA1 VEA1	University of the Philippines Los Baños (UPLB) Benguet State University (BSU)	The topic bound claims of this project as the installand schemes and fammory wood processing plants, wood preservation industry, downstream industries and wood users.	01-Apr-23	31-Mar-25 28-Feb-22	ONGOING	2,633,484	2.313.620.76
	tarm or indigenous and economically valuable species to support traditional industries for forest restoration and biodiversity conservation in Benguet"	economic growth	Taking the technologies as assumed to increasely locate hybridizing and used highly. By bodinessi objections of the forse indicates in Brought. For the Hase 1 of the project, and Death to object of the set of the forse indicates in Brought. For the Hase 1 of the project, and bodinessi objections and socio-sultural protocols that cover the establishment and management of model fame boroked as table society of ram materials for the production detected products, while the Phase 2 a envisioned to pursue innovative forest restantion strategies that achieve exclopical, economic, and blodiversity objectives of the project.	Investing 4 nonstatuting of knowling the starting product for the starting product for the LOLI MGA and ether to 30 productional LG CB mapping ether(1). Training on clonal and narrawy management practice, for 20 participants 1 Training on field and anarrawy management practice, for 20 participants 1 Training on field and LOI and/or SDC 1 Participants Reason and Patternetin P Patterneting MU with all least LOI and/or SDC 1 Participants agreement will local cooperator for the model tam Patry 1 Policy Intel on conservation of nuble plants tam materials for Kayabanglobal beenges		uenguett-ammers and tocal communities of Atok, and La Trinidad, BenguetLocal industry workers/cooperatives for bamboo crafts and local beveragesPENRO-DERM, MENRO, La Trinidad and Atok, and PENRO (PLGU)					

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31.	Total Project Cost	2024 PCAARRD GIA
	Disproity distribution and conservation status of	Papid, inclusion and sustained	Cebu	Publications	Coby Toshnological University (CTU)	1 Municipal Local	01 Apr 22	21 Mar 25	2024'	5 000 000	1 270 018 20
	Anuran species in Mananga and Kotkot Watersheds,	economic growth	Island is in Central Visayas, Philippines, is the most denuded place in the country's central region (Cellus et al., 1990). Records show that Cebu Island's	Ver IEC materials (hereburge) on the	Cebu Technological University (CTU)	Government Units and Barangay Local Government	01-Apt-23	3 I-IVIal-23	ONGOING	5,000,000	1,270,018.20
	Cebu, Philippines		forest cover is less than one percent of its total land area (Mallari et al.,	diversity of anurans associated flora and fauna in Mananga and Kotkot		Units2. Policymakers3. Academe, researchers, and environmentalists4. People€™s Organization					
			2001). The region is high rate of debrestation has seemingly led to the local extinction of wildlife and many birds (Brooks et al., 1995; Rabor, 1959;	watersneds/u least 1 paper presented in a scientific conferencePhoto and video documentation of		and Local Communities; Women and Men and					
			Magsalay et al., 1995; Brooks et al., 1995; Collar et al., 1999). Moreover, deforestation has severely disturbed important ecosystems on the island including	Anuran and life forms in the two watersheds		Youth Groups					
			watershed forests and river watershed reserves that support the growth of both aquatic and terrestrial species. In Cebu, two critical watersheds namely,	Year 21 Monograph of Species of Anurans in the two watershedsPaper for Publication on the impacts							
			Mananga Watershed Forest Reserve and Kotkot River Watershed Reserve that supply water to the metropolis of Cebu City have been reported to be in bad shape due	of watershed alteration on Anuran populationScientific paper submitted for publicationPatentsYear 2Copyrights of Guidebook ProductsYear 1Information on taxonomy,							
			to the fast-growing number of people living within the vicinity of its basins accompanied by the destructive anthropogenic activities (Quimio, 2006; DENR,	diversity, and ecology of Anurans and associated flora and fauna. GIS maps of the Anuran							
			2008). Amphibians,	collection sitesGIS maps (Resource / Location Map) of							
			them good biological indicators of environmental health (White, 1999). However, the level device of environmental health (White, 1999).	and fauna associated with watershedsZoning plan of watersheds reflective							
			decreased with the increased habitat destruction and loss (Parris, 2004) as	PlanDatabase (content build-up) People and ServicesYear 1 and 24 Personnel trained in							
			land-use changes can be unlitting for anuran survival and reproduction (Faruk et al., 2013). Yet, in some instances, anuran species that have high fecundity	samples and laboratory work;6 undergraduate students mentored Places and							
			(Williams & Hero, 1998) seem to survive in disturbed ecosystems (Gibbs, 1998) though it is not guaranteed that they will continue to thrive in such	PartnershipYear 12 project sitesCollaboration with DENR, DA and LGUs of Talisay City and MingalnillaYear 22 project sitesCollaboration with DENR, DA and LGUs							
			situations in the long-run. If such situation persists, the decline of the anuran population may still lead to extinction (Jose, 2012), significantly	of Liloan and Compostela Policies Year 2Policy recommendation on watershed and anuran conservationPolicy recommendation on the control							
			impacting environmental processes and ecological functioning. Anurans are not only important in the balance of the watershed ecosystem. They also	of extraction of some valuable species in the watersheds for sustainability							
			have economic value within the ecosystem. Particularly, anurans have been significant predators of insect pests that either destroy crops or transmit								
			diseases. They are also served as food delicacies in some parts of the country								
			not edible but rather poisonous. Moreover, the secretions of anurans are important								
			in the production of anesthetics, painkillers as well as antibiotics (insert reference). Further research on the use of these anurans may unfold more								
	Enhancing the concentrion and broading program of	Integrity of the environment and	economic potential in them. The Philippines is a menadiverse country with high rates of endemism. One of the top biodiversity	Publication	Sillimon University (SU)	Filinings * by proceeding a Philipping natural baritage	01 Oct 22	24 101 26	ONCOINC	0.219.276	1.075.046.00
	the Philippine spotted deer, Rusa alfredi using	climate change adaptation and	conservation priority areas in the Philippines is the Negros-Pay region as it is a home to many threatened	brochure about the Philippine spotted deer	Sililian University (50)	for present and future generations.DENR " by	01-00423	31-301-20	014001140	5,210,270	1,873,840.00
	molecular-based approaches for natural resiliency	mitigation	destruction, overexploitation, climate change, and disease-causing pathogens. Because of this, there is	generate at least two (2) scientific article drafts for possible publications		supporting their mandate of conserving & amp;					
			an urgent need of action backed by basic research to protect and nurture the existing terrestrial biodiversity of our country, especially in the Negros-Panay region. The Philippine spotted deer, Rusa	Products protocols for DNA barcoding of the Philippine spotted deer		academic institutions " by building the capacity of					
			alfredi, is one of the five key species of the Negros - Panay region. This deer species is only found in the Philippines and is deemed to be the rarest, least known, and most narrowly distributed deer in the world	produce DNA barcodes, microsatellite markers, protocols for identifying and analyzing the microsatellite markers of the Philippine spotted deer		faculty & amp; students to apply molecular-based					
			(Key, 2003). Captive-breeding program initiatives are currently being conducted by the Talarak	produce MCH profiles for target species, protocols for identifying and analyzing the MHC gaper of the Philippine protect deer		stakeholders and their roles:a.DENR, PENRO,					
			this species. However, data to enhance the captive-breeding program is scarce. Currently, there is a	Amended breeding protocol and conservation program of the Philippine spotted deer at		CENRO, Regional Executive Director (RED)-					
			Reed to understand the genetic diversity, inbreeding levels, and the health baseline of this deer species (Rode-Margono et al., 2021). Access to this knowledge will enable us to improve the genetic stock of the	CENTRUP.		development & amp; implementation specific to PSD					
			captive individuals and prepare them for reintroduction to the wild. Therefore, this study would like to address those gaps by understanding the genetic diversity and screening the vulnerability of the captive-	People /Services Build capacity of at least 3 faculty &: staff in molecular biology and bioinformatics		conservation program, development of plans for					
			bred stock of the Philippine spotted deer in the Negros - Panay region. Specifically, to understand the obviogenetic relationship, inbreeding frequency, and the natural selection mechanism of their improve	possible mentorship of DOST * GREAT scholars on molecular biology and bioinformatics Build capacity of at least 10 faculty & amp; staff undergraduate and graduate structed in		deer translocation. etc.b.Silliman University,					
			genes against extracellular pathogens.	molecular biology and bioinformatics possible mentorship of DOST - GREAT scholars on		Biology Department- implementing body- Building					
				Build capacity of at least 10 faculty & staff, undergraduate and graduate student in		the capacity of faculty and students to apply molecular-based approaches or					
				molecular biology and bioinformatics possible mentorship of DOST - GREAT scholars on molecular biology and bioinformatics		conservation.c.Silliman University * Center for					
				Places and Partnership		Tropical Conservation Studies (CENTROP)- Conservation program amendment: provide deer					
				Strengthen partnership with Department of Environment and Natural Resources (DENR),		samples.d.Mari-it Eco Park (West Visayas State					
				islands focused on the conservation and protection of endemic fauna. Enhancement of		University)- Conservation program amendment; provide deer samples.e. Talarak Foundation-					
				the cell and molecular laboratory of Silliman University. Information sharing with the different stakeholders (launching event)		Conservation program amendment; provide deer					
						samples.					
				Strengthen partnership							
				institutions, NGOs and captive breeding facilities within Panay and Negros							
	Etiology, Detection and Management Strategies	Integrity of the environment and	This project deals with the emerging Pestalotiopsis causing leaf fall disease of rubber byconducting	Islands tocused on the conservation and protection of endemic fauna. Publication:	Philippine Rubber Research Institute		01-Mav-23	30-Apr-25	ONGOING	5.000.000	1.125.154.00
	against Pestalotiopsis Disease of Rubber	climate change adaptation and	preliminary studies on the epidemiology by determining the host range, pathogenicity, and the occurrence of disease complex involving major rubber leaf diseases and the Pestalotiopsis. This aimed to	At least 2 scientific papers At least 1 paper presentation in a conference	(DA-PRRI)					.,	
		mitigation	provide intervention through the development of DNA-based detections and integrative management	Patent: Patent for the DNA-based disgnostic method		Local farmers/plantation owners Rubber cooperatives and association					
			quality and production. The cross-infection potential of the emerging Pestalotiopsis pathogen of rubber	Patent for the integrative management strategy		Local Government Units					
			this will add to the existing knowledge on the epidemiology of the disease. The knowledge on the co-	Product:		Researchers SUC					
			intection scenario of Pestalotopsis with other leaf pathogens of rubber is also important for the development of effective control measures. The development of easy-to-perform molecular platforms for	UNA-based diagnostic for Pestalotiopsis Effective and integrative management strategy for Pestalotiopsis							
			diagnosing pathogens is necessary forthe early detection and implementation of prompt mitigation measures to prevent the spread and outbreak of the disease. Also, the development of integrative	People: 1 MS graduate student							
			management strategies against Pestalotiopsis like screening for resistance of existing clones, and evaluation of biological and chemical-based treatments should be done to optimize effective	Awareness campaign to 100 rubber farmers in Regions 9 and 12Place: Partnership with ubber farmer a sassociations. SLIC, DA.PBRI and other government agencies							
			management strategies against the emerging disease. The above concerns should be addressed	Deline Directive antifection of Destelationsis for a sublex election material and							
			consultations, and discussions made with TWG for Pestalolopsis. This could have a great impact on	plantation							
			small to large-scale rubber stakeholders. After the project™s completion, the preliminary information on the biology and epidemiology of Pestalotiopsis will be determined and rapid and accurate molecular	Policy brief for the status and management strategies for Pestalotiopsis leaf fall disease							
			platform for the disease will be developed and cost-effective management strategies to circumvent the spread and outbreak of the disease in the country.								
			· · · · · · · · · · · · · · · · · · ·								
	Evaluation of Promising Rubber Clones as Clonal	Integrity of the environment and	In line to the rubber industry problem related to the low productivity of the crop, selection of the seeds for	Publication: Flyers, leaflets, terminal reports, posters, iournalPatent: NoneProduct:	DA Region 9		01- hul-22	31-Dec-24	ONGOING	4 447 660	468 644 52
	Rootstocks	climate change adaptation and	rootstock is one of the factors contributing to the growth development that partly governs the yield of upber tree. One major concern in the limited information and that is written in written in the second of th	NonePeople: Rubber farmers, nursery operators, rubber stakeholdersPlace: NonePolicy: Use of recommended closer as closel controcks	gron o	Rubber farmers	U Jurzz	0De0-24	2.100.10	4,447,000	
		mitigation	Commonly, small-hold farmers were originally established with rootstocks from unselected sources of	or recommended ciones as cional rootstocks		Nursery operators					
			seeds. The use of varying unselected seeds will lead to considerable heterogeneity resulting to lower yield (Senanayake et al., 1968 as cited by Wiredo, 2015). The performance of the parent tree as the			Rubber stakenoiders					
			source of seeds is one thing to consider. Stock seedlings from clones with good performance producing vigorous roots is a good choice as it significantly improved the vield of the crop (Smith et al. 2008)								
			Various promising rubber clones are newly introduced in the country and these could be a potential use as seedling stock. This study will evaluate the seedlings of these clones under survey and field trial								
			Clonal rootstocks that possess commendable growth development will be recommended.								
				<u> </u>							
	Field trial plantation of indigenous tree species for the	Rapid, inclusive and sustained	Wood supply and demand study on Region 4-A by Villanueva et al. 2010 reported that	6Ps Publication Year 1 One (1)	University of the Philippines Los Baños	The target industries to be catered	01-Feb-23	31-Jan-28	ONGOING	8,248,000	1,521,000.79
	wood-based industry in Laguna and Quezon	economic growth	the region's wood supply has been declining over the years. To satisfy the	news and feature article of ITS for the wood-based industryTwo (2)	(UPLB)	and possible adoptors of the project are the following: Wood carvers of Paete,					
			regions and abroad. Based on the study, the gap between the wood demand and	ITS Year		manufacturers of chopsticks, toothpicks, ice cream					
			supply may narrow down if the industry Ecetinds an alternative material to wood; the existing forest degradation is stopped; and more commercial plantations	2 One (1) IEC material in the form of a promotional pamphlet on ITS for the wood-based		from Malapapava in JOPA Enterprise Pagsanian.					
			will be developed to meet local demand for timber € Highlighting the need to develop commercial or industrial tree plantations. ITP program in the	industry in Laguna and Quezon Year 3 Draft one		Laguna, Pallet maker and producer					
			Philippines has a lot of potential (Paler, Shinohara, del Castillo, & Nomura 1998) in aiding the future of the wood-based industry. The	(1) scientific article submitted for publication in peer-reviewed		In Atimonan for Laguna Southwood Products Inc (LSPI) in Laguna, New Gumaca					
			DENR€™s Forest Management Bureau (FMB) estimated that the country requires 6	4 One (1)		Woodcraft MultiPurpose Cooperative in Gumaca,					
			(2019 Wood Sumnit, https://forestry.dem.gov.ph). Per FMB records, wood	S One (1)		and furniture maker and designer of Canes Furniture					
			Industries are still importing around 4 million cubic meters of round wood equivalent, as our local production only provides less than 1 million cubic	news teature article on develop 6 ha seedling seed orchards (SSO) from the established field trial plantation for the 3 species		in San Pablo City, Laguna,					
			meters (https://businessmirror.com.ph/2021/05/29/blessing-for-the-forest/). Hence, there is a need for around 42,000 hectares of mature plantation annually	Patents Year 2 Application		Laguna nandicraπ maker in Mulanay, Quezon, R.I Ordonez wood trading and					
			in order for us to be self-sufficient in meeting the wood requirements for the	for copyright of the training modules Products Year		woodcrafts in Calios, Sta. Cruz, Laguna and JMD					
			development as well as develop a science-based selection protocol for superior	distribution maps of mother trees per species, with their phenology (fruiting		and Design in Candelaria, Quezon. Other					
			in developing ITPs with high-quality or the wood-based industries rests largely	thousand (4000) quality seedlings of P. nodosa, M. azedarach and L. cordata for		beneficiaries will include					
			provinces of Laguna and Quezon are known for their wood and wood-based industry. Paete has a great reputation for handcrafted wooden products, being	tield trial produced Year 2 Six (6)		upland tarmers, wood-based industries, Provincial and concerned municipal LGUs.					
			named the €œCarving Capital of the Philippines.€ Other wood-based industries in the province are the following: JOPA Enterprise in Pagsanian. Laguna	hectare field trial plantation of ITS Four thousand (4000) quality seedlings of P. nodosa, M. azedarach and L. cordata for		business partners, DENR Regional and Provincial					
			manufactures chopsticks, toothpicks, ice cream spoons, lollipop and popsicle	field trial produced GIS map		community residents in the project sites, and other					
			Gumaca Woodcraft Multi-Purpose Cooperative in Gumaca, Quezon, Ivew	conservation and nursery propagation protocol adopted/modified/developed Year		interested groups who will					
			Mulanay, Quezon; and R.I Ordonez wood trading and woodcrafts in Calios, Sta.	of selected ITP and associated plantsGrowth performance and		be provided with better income opportunities through the establishment of field					
			Cruz, Laguna; and JMD Trading Sash Factory Furniture and Design in Candelaria, Quezon. However, the continuous deforestation of the remaining forests in	microclimate measurements of the established field trial Year 4 Develop 6 ha seedling seed orchards (SSO) from the field trial		trial site for plantation development, increased					
			demand of the industry. For this project, the identified species to be studied	plantation established for the 3 species GIS map for SSO locationYear 5		supplies of raw materials,					

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
	Field verification of bamboo textile fiber technology using Glant bamboo (Dendrocalamus asper) in Northern Mindanao	Rapid, inclusive and sustained economic growth	In support of the CIM-Bathesion CIGR RELATE, D Cardine in Buildness, the single of that investments in the utilization of grant barboo Derivicularium a speep, endernic: In Konthem Michano, for natural totalle filter processing, upskil Highe Education Institute (HEI) personnel, skilvents, ladovers, and fammar, and the DETH H and provide cost effective alternatives for testile processing out of gasts thanhous (HEI) personnel and the site of test personse and distribution of gards thanks on a multicularity engineerate barbs. This is a site of the site of test personse and the site of test personse and conducted such as the endowing of the site of test personse and conducted such as mechanical endowing and the barbs. This same conducted such as mechanical endowing and the barbs of test personse and moviated approaches related to barboo testile fiber namufacturing in order to photoletican de proge operation procedures. The site dependence production and proge operation procedures. The institute of the endowing moviate approaches related to barboo testile fiber namufacturing in order to further improse that fullitation of barboo testile fiber namufacturing enducting competitiveness and regional development of the regions? "Is barboo natarby. & hotop:	Addedict: One (1) publication on by product utilization of engineered bambon products One (1) publication on by product utilization of settle processing application using Glass bambon Dend (1) publication on bambon-based testile machinery balanciano and performance Paters True (2) utilization of settle processing application using Glass Paters Paters True (2) utilization of the Settle Paters 200 metric tables that the Settle Paters Paters (2) prover filling from the Settle Pater Extraction Machine Paters (2) prover filling from transfers, filling and tables (2) (1) Adriated Bambon Settle Pater Extraction, and transfers (7) At least to (1) personnel and tablestet of CAU or members of the community transfer in Paters Pater	DOST-Philippine Textile Research Institute (DOST-PTRI)	The target beneficiary of this project is mainly the Central Mindanao University (CMU) which is in line Device the second seco	01-Jan-23	31-Dec-24	2024* ONGOING	18,327,898	5.294.298.88
	Field Verification of knowative Technologies on Rubber Farming System	Rapid, inclusive and sustained economic growth	The entit that a time to produce a two by factory gives more than a second second second models and the second sec	Palotain Production of EC Mathematic (this will be undertakam during the year 3 of the Establishment of Netber Model Farm using a schwards in Aber Palotain Exchanges of Netber Model Palotain Strainer (Netber Palotaicen, Timming Mathematika), Palotain bair and the schwards and the schward schwards and the schward schwards benchard technologies 2. Palotes in producing quality caplumps in Agusen de Sur	Agusan del Sur State College of Agriculture and Technology (ASSCAT)	AMARGEBICO ARUPA Rubber farmers of Trento, Agusan del Sur Rubber farmers of Butuan City, Agusan del Norte	01-Jan-23	31-Dec-25	ONGOING	4,957,522	1,423,673.96
	From Waste to Wealth: Production of Nanosilica from Bamboo Harvesting and Processing Wastes (W2W- Bamboo)	Repid, incluse and sustained accommic growth	The project will be harvesting with existing the fifthered forms of barrhoot spatial generated during while added products from these wates. The dejection of generation of while added products from these wates. The dejection of the project a with second of the research profiles under the Homonicol Mulaion Reamp Dis- product development and wates addition agends appendicably for barrhoot, which is consistent a proving under the second and the project a with second of the research of the project and with a second of the research of the second and the second and second and the second and the second and the second and second and the second and the second and the second and second and the product second and the second and second and the product second and second and second and the second and second and second and the second and second and the second and second and the second and second and the second and second and second and second and second and second and second and second and second and second and second and second and second and secon	(47-5 Policitation Year 2 Core (1) EC method, i.e., information buildin/brochure on utilization of bamboo harvesting and proceeding water. Delard to the cip-selected fractions for possible policitation in pole-reviewed journals Arboys; Patents Year 2 Meeton disclosure application for the developed protocols for the production of nanosulica from bamboo harvesting and processing arboss; Policitation Arboys; Policitation Year 1 Nanostilia forni bamboo harvesting and processing arboss; Year 2 Nanostilia forni bamboo harvesting and processing arboss; Year 2 Vear 2	University of the Philippines Los Banos (UPLB)	The target beneficiaries of this project are bankno processing companies, bankoo plantaison farmen, nelaad downsteam suusainable and winroomentai-finiendy products from bamboo processing wastes.	01-Jun-23	31-May-25	ONGOING	4,999,782	2,101,259,50
	Gesenbouse Gas Inventory of Industrial Tree Plantation (ITP) Production Chain in Mindanao (Phase 2)	Integrity of the environment and climate change adoptation and mitigation	In 2016 the LIPBA COVIER successfully completed as one-pare DOST-ROVAMPOR Sounder treasesh project on Cargan Region. The shirty invoked memory of GVG emission tion ITP Sartillees for a float of harvesting, minor and major tog transport, and venera and lumber production. It also included determination of actionation of multiple work of posicidation strateging and the maximum strateging and the sound strateging and the sound strateging and the maximum strateging and the sound strateging and the sound strateging and the presenting activities, attrasport and primary possible strateging and the calcion takes, assessment of folded plantation and skonoldry wood processing including its well and the sound strateging and the primary possible strateging and the sound strateging and processing in the production chain to be able to corre up with the complete assessment of GVG float the the sector and demonstrate its role in mitigating climate charge and highlight its economic vability and contribution to sustainable fixered records management.	 A constraint of the second seco	University of the Philippines Los Baños (UPLB)	I. DENR * for monitoring and evaluation and policy WPA * for monitoring and evaluation and policy Texcommendations S. Partner SUCs * for training and research implementation d. Small-hold tree farmers, ITP and IFMA holders/owners* for implementation/compliance and guidance monitoring and research evaluation and policy research and the second se	01-Nov-21	31-0d-24	COMPLETED	4,998,590	740,616.70

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31	Total Project Cost	2024 PCAARRD GIA
	Growth Strong Attributes and Measures to Minimize	Integrity of the environment and	Falcata (Falcataria moluccana) (Mn) Barneby & Grimes) tree plantation in Mindense. Delivoiner in one	The Project will have the following Expected Outputs:	Control Mindongo Liniugraity (Chilli)	Trop formers and private plantation owners in	01 Nov 24	21 Oct 24	2024'	5 000 000	642 200 CO
	the Wood Defects of Falcata (Falcataria moluccana	climate change adaptation and	of the lucrative ventures of three farmers. Falcata is widely planted throughout Mindanao and some parts of the lucrative ventures of three farmers. Falcata is widely planted throughout Mindanao and some parts of Virgues and Lucon islande harques of its demande for different word broducts. Come Denies is	RDs Metrics	Central Mindanao University (CMU)	Mindanao, academes and researcher	01-NOV-21	31-Uct-24	GOMPLETED	5,000,000	542,200.00
	(Miq.) Barneby & Grimes) Old Title: Growth Stress Attributes and its Measures to Minimize the Wood	mitigation	declared as the timber contride of the country as per DENR - DAO no. 99-13. The order supports the timber industry to exhange and of the country as per DENR - DAO no. 99-13. The order supports the	Duk Kantinga							
	Defects of Falcata (Falcataria moluccana (Miq.)		vast open land, good climatic and exterior by investig approximate failed for three plantations. The plantations as a common commonline for many decreter made this a way of life for many Caracanon. The plantations as	One manuscript submitted for publication in peer reviewed journal							
	barrieby & Griffies)		region contributed 60% of the production for wood of the country. Sity-seven percent (67%) of national log production is from falcata (Falcataria molycoana) trees (EMR-DENR 2011) It is the major crop raised	Production of 200 brochure/leaflets on protocol on how to reduce/minimize falcata log defects							
			in the region. Its suitability to the site as exhibited by its fast growth rate; and the high market demand for plwwood. lumber. boxes and crates production that encourage more farmers into falcata tree farming.	Patents							
			The log demand of falcata increased spontaneously because of the log ban as per Executive order no. 23 (Declaring a moratorium on the cutting and harvesting of timber in the natural and residual forests	I submitted application for utility model for protocol on how to reduce/minimize falcata log defects							
			and creating the anti-illegal task force).	Products							
			Despite this demand the falcata tree farmer recently experienced odd market price on logs because of the log defects e.g., radial cracks at the log-end and lumber crooking during harvesting, that depreciate	Identified the Physical, and anatomical characteristics of 12 Falcata (both tension and normal wood) for wet season							
			the value of logs during marketing and this attributes also the low recovery of wood processing. These	Identified the Physical, and anatomical characteristics of 24 Falcata (both tension and normal wood) for dry season							
			defects can be attributed to Longitudinal growth stress. Cassens & Serrano. (2004) emphasized that Longitudinal growth stresses are present in all standing timber and cut logs. In fact, if they did not exist,	Determine d the SRS and RRS of 24 trees both wet and dry season (total of 1,248 strain measurements)							
			trees could not maintain a vertical position. Growth stresses are not visible although they can be measured and are called growth strain (GS). When trees are felled and cut into logs and logs processed	Two (2) experimental set up on the log treatment 1 protocol on how to reduce/minimize falcata log defects							
			into lumber the results of growth stresses being released become evident. a study conducted by the USDA Forest service showed that on the average 12.6 percent of the potential lumber tally is lost due to	Result of benefit cost analysis of treatment to minimize defects Determined the Juvenile to Mature Wood Transition of Falcata							
			multiple defects (Cahill & Cegelka, 1989). Considering the total volume per hectare of falcata that is 30° 40 m3 /ha (Krisnawati et al, 2011) and the price of falcata per volume which is 4,500 per cubic meter (as	People and Servicess							
			reported by Director Ricardo Calderon of DENR-FMB in a news article in 2016) an estimated 22,600 pesos/ha is lost due to wood defects.	1 MS student mentored and 3 undergrad students mentored							
			In response to the request of farmers and sawmill operators this study was formulated to investigate the	Places and Partnership MOU between CMU and ERDB- FWRDEC							
			influence of stress induced by growth orientation and provide measures to minimize the formation of radial cracks at the log-end and lumber crooking in both stem and branch and will describe the	Policies							
			anatomical features of tension wood and normal wood of falcata.	1 Policy brief about harvesting and post-harvest processing of falcata							
	Identification of agarwood-forming pathogen in Aquilaria species in the Philippines and agarwood	Integrity of the environment and climate change adaptation and	Agarwood is a fragrant dark resinous wood formed in the heartwood of Aquilaria trees. It occurs in Aquilaria trees of the family Thymeleaeceae, with 6-8 recognized species in the Philippines. The tree	6PsPublicationYear 1 & 2 Infographic material on agarwood formation	University of the Philippines Los Baños (UPLB)	Local communities, DENR, research and academic institutions, tree farmers/growers, industry	01-Aug-23	31-Jul-25	ONGOING	11,121,413	1,861,646.00
	induction	mitigation	has the unique feature of producing resinimpregnated heartwood which is fragrant and economically highly valued depending on the oleoresin content of the wood. Agarwood is dubbed as awood of the	Infographic on agarwood Year	(
			Gods with immense cultural significance due to its use in incense ceremonies. The studies on the biological agents in rainforest areas on the infection site of the agarwood trees revealed that the fungal	2 2 publishable article in refereed/ISI journal Patents Year 2							
			microbes could be the potential agents that induce the formation of agarwood. As a response to the fungal infection, the	1 application for IPR on agarwood induction tech Products/Year 1 &							
			tree produces a high resin in volatile organic compounds that aids in suppressing or retarding the growth of the fungus. As the fungi caused injury to the tree trunk, the tree underwent several	 Partial list of fungal and bacterial strains/species in agarwood of Aquilaria 							
			biochemical reactions and produced a white, milky substance called oleoresin. Once the production of aromatic trunk or	Accesion codes for deposited DNA sequences of fungal/bacterial strains/species in							
			agarwood is complete, the tree slowly starts drying up, signaling its readiness to be harvested. It is understood that resin wood or agarwood is the result of oleoresin accumulation in response to fungal	agarwood Year 2 Complete list of fungal and bacterial strains/species in							
			infection. However, little information is available on the potential fungi and its enzymatic activities that are associated with the formation of agarwood for	agarwood of Aquilaria Protocol on							
			Aquilaria species in the Philipines However, bacterial communities were also found abundant and coexistent with fungal communities in agarwood and their role in agarwood formation were reported.	artificial agarwood production People Services Year 1 & 2 3 MS							
			Thus, the project considered also the bacterial community in our project as subject of analysis. In this circumstance, correct identification of fungi and bacteria associated with agarwood formation is	students (Forestry, Biology, Molecular Biology or Biotechnology/Microbiology) assisted by the project in the							
			imperative so as to proceed to further research work on artificial inoculation of the biological agents on Aquilaria spp. so as to produce high amounts and quality agarwood	conduct of the study 1 Staff trained on molecular and							
			Indiscriminate harvesting of agarwood has severely affected natural regeneration of Aquilaria trees	microbiology techniques Places and Partnership Year 1 & 2 Continued partnership with FWRDEC-ERDB-DENR; Established partnership with selected							
			which in effect threatens the survival of the species in the wild. Thus, establishing the ability of the agarwood-forming pathogen to infect the species through	State Universities/Colleges with similar research work; Established Collaboration							
			artificial inoculation and reproduce similar symptoms will reduce the pressure on the natural population of Aquilaria trees. There is also a need to underpin growth of agarwood-producing Aquilaria tree to	with industry and private associations on Aquilaria tree farming 2IsEconomic Impact Provision of additional income to							
			facilitate tree silvcultural management for efficient propagation and plantation establishment; hence, study on the close association of biotic and abiotic characteristics of the site where the infected tree is	tree farmers involved in agarwood collection and be able to assist industries							
			growing is necessary.	collaboration with tree farm associations and other private industries, we are							
				targeoing a minimum or around 300 member tarmers and interested potential investors. Social Impact							
	Integration of Traditional and Modern Bioproduction	Integrity of the environment and	Consistent with the global and regional efforts towards pursuing a more sustainable and climate resilient	Database of traditional and modern bioproduction systems in Japan, Philippines and	University of the Philippines Los Baños	Researchers, academics, and students working on	16-Oct-21	15-Apr-25	ONGOING	17,405,392	2,378,644.00
	Systems for Sustainable and Resilient Future Under Climate Ecosystems Changes (ITMoB)	climate change adaptation and mitigation	development partways, the Philippine's National Limite Lhange Action Plan (NCLAP) comprehensively addresses the primary goal of increasing natural ecosystems' resilience to climate change to promote a climate addresses the policy of the plane.	Indonesia jointly developed by participating research team and made accessible online to other researchers following a specific protocol.	(UPLB)	climate change, land use and demographic changes, and ecosystem services					
			The MOCAN identified enouge strategie minibles to proteinable and eligents realized development	Indonesia and validated by key stakeholders detailing the process of creating multiple		Policymakers working on the environment and food					
			pathways. These are food security, water sufficiency, environmental and ecological stability, human pathways. These are food security, water sufficiency, environmental and ecological stability, human recurity, dimete friendly industries and environ supervisible energy.	dimate and ecosystem changes. The framework can also guide the scaling up of the project to other areas in the participation countries for broader impacts.		Decision-makers like LGUs, national government					
			development (Climate Change Commission 2011).	Analytical report on the detailed assessment and predicted impacts on selected historeduction systems under multiple future scenarios in the project areas in the context of		agencies, and civil society involved in climate change adaptation and mitigation and ecosystem					
			This project is a multilateral cooperative research between Japan, Indonesia and the Philippines under the e-ASIA Joint Research Project. However, the outputs enumerated in this project is exclusive to the	dimate change, demographic change and land-use change from 2021 to 2050. Assessment report on the changes in ecosystem services in the project areas produced by		services especially those operating in the project areas					
			Philippines only and hopes to contribute to the goal of NCCAP.	selected modern and traditional bioproduction systems under multiple scenarios indicating		Private sectors and development agents with					
				List of interventions in the project sites to optimize ecosystem services within each scenario		sites					
				Workable networking and communication platform developed and institutionalized among project partners in Joan Dhillioniae and Indonesis like shared data base project websites.		Local communities depending on ecosystem services in the project areas					
				and project output dissemination plan that provides research outputs, policy websites, and project output dissemination plan that provides research outputs, policy accommendations, and training materials and able to relevant stakeholder.							
				in the second se							
	Isolation, Characterization, and Utilization of Functional Microbes in Fermentation and Physico-	Rapid, inclusive and sustained economic growth	Current practices of cacao beans fermentation in the Philippines generally generated	BPs MetricsPublicationYear 1 Ä [*] At least 1 paper presentation in conference related to food	University of Southern Mindanao (USM)	Cacao farmers, bean processors, cacao and cacao- based product manufacturers	01-Apr-24	30-Sep-26	ONGOING	13,888,726	6,451,140.20
	Chemical Analysis of Fermented Cacao Beans for		Interior quality termented beans based on the results of studies under NICER Cacao R&D Center. There is a need to develop fermentation protocols to	microbiology and processingYear 2 Å [*] At least 2 paper presentations in conferences related to food							
	Inproved quality		generate high quality fermented beans. Functional microbes play significant roles in fermentation leading to enhanced and improved bean quality. There is a	microbiology and processing A [*] IEC materials (Leaflets on microbial inoculants and brochures on new							
			need to isolate, identify, and functionally characterize the microbes for utility in fermentation of cacao beans. There is also a need to develop other	fermentation procedures)Year 3 A" At least 1 scientific paper and at least 2 paper presentations in							
			strategies for enhanced fermentation and increased quality of beans. To ensure production of quality fermented cacao beans, there is a need to assess the	conferences related to fermentation and processing A" IEC materials (Leaflets on microbial inoculants and brochures on new							
			grade, sensory and physico-chemical properties of the processed beans.	termentation procedures) Patents Year 1 A ⁺ At least 1 utility models/ patents filed for microbial inoculantsYear							
			The project is expected produce high-quality fermented cacao beans that command higher prices	2 A" At least 1 utility models/ patents for microbial inoculantsYear 3 A" At least 2 utility models/ patents for microbial inoculants and							
			and increased protits for cacao farmer and processors; increase in demand of Philippine cacao fermented bean in domestic and export markets; and production	termentation process Product/Year 1 A [*] At least 1 functional microbias Å [*] At least 1 microbial formulations/inoculants/Year 2 Å [*] At least 1 functional microbial inoculants Year							
			or superior quality cnocolates, tablea and other cacao-based value-added products both locally and internationally.	A At teast 2 microbial formulations/ inoculants People and Services A At teast 2 microbial formulations/ inoculants People							
				A ∠ univergraduate and ∠ MS graduate students Å [*] Capacity building of at least 3 cacao growers€™ association on improved anthenune transmission behavioran Drace							
				prosumatives processing technologies Place and Partnership Year 1 to 3 3° Determine with protein processing of American Banker 11 and 12 Year 2							
				A Fairline surp with Department or Agriculture Region 11 and 12 Year 3 A Training of DA staff on developed inoculation strategies Policy							
				Tear 1 A POINCy recommendation on utilization of inoculants 2IsEconomic Impact Enhanced competitiveness of							
				least 20% Increased income of cacao							
				Impact boltom:0cm;margin-light:0cm;margin-light:0cm;margin-							
				margin-left:18.0pt;margi							

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
	Lendslike Gueseptibility Analysis, Monitoring, Mapping and Earlier for Selected Areas in the Cordillera Administrative Region	Integrity of the environment of climate charge adoptation and mitigation	Indicates her become a major shoul in CGA Alond yanghi (Indicate occur oncloud by storms or major typhoton. New you con social of our relations and villages have avoid gravatilies and other adverse impacts. Occurring human control in the social store in the social store of the social indications of the social store of the social store of the social store of the social store of the social store of the social bit indication of the social store of the phenomena and is dynamics, and ultimately enables the development of early saming system show and, which spen. In specific and local comparises the social show the social score of the social score the social show the social score of the social score of the social score of the social score the social score of the social score of the social score of the social score of the social score of the social score of the	Aubituations Two (2) Publishable antidise submitted (8) and (or SCOPUS Journal) Patental project horokones Patent application for UM on Landstide EWS developed Product application in landstide EWS developed, copyrighted project horokones and platform in landstide EWS developed, copyrighted project brochures t landstide Easty Warming System prototype developed People Services 9 standing for technical and 80 professionals (PMDRRM and PMPD Officers and mapping antibilinduced thresholds development and landstide EWS developent, copyrighted project brochures t landstide Easty Warming System prototype developed People Services 9 standing for technical antibilities (2) mapping and distables development landstide Resolution Places and	Benguet State University (BSU)	h-9-Semia of the more notable beneficiaries of the Project and the local government umits such as DRAWO and Planning and Development Office and their local constituents who are likely to benefit from the early warring systems and the superior development of the superior of the likeling in terms of proge- advisories that can be given to them in advance or prior to the likeling who are strated on the concepts_principles, and took in landslide assessment, monitoring and early warring systems.	01-Nov-22	30-Apr-25	2824 ONGOING	4,999,442	1.205.610.40
	Mangrove-sediment-microorganism carbon dynamics to enhanced CO2 sequestration capacity of Mangrove forests	Integrity of the environment and climate change adaptation and mitigation	Anagrove eccepters are one of the most otical eccepters: along contential margins that provide valuable eccentric and ecceptical services. Because of the kite ecceptical services is a service of the se	Pacification Project Incolutes and Ryms Project Incolutes Installard I relational Conferences Project and Sorvices Transfer project still and involved LCUI**s MENRO Staff on mangrose-sediment- microcropations actions dynamics data gathering, monitoring and analysis. Largoridat Project Incolutes Internation Ryms Project Incolutes Internation Ryms Project Incolutes Internation Project Pathering Project Projec	Southern Leyle State University (SLSU)	I. Researchers "researchers involved in this project will be able to produce scientific publications and assist them in capacity-building integral in nation building. 2. Local government units, government agencies, will serve as busing the "his project will serve as busing operation of government agencies and local government units in managing and understanding the importance of mangrove in cation sequestration. 3. Philipping government." provide data and information on sequestration capacity of mangroves as input to the country" is NATIONAL DETERMINED CONTIRULTION (MCD) being submitted by Philipping government to the UNFCCC.	01-Sep-23	31-Aug-25	ONGOING	4,993,612	1,117,156.30
	Production and Biodiversity Conservation of Wild Tea Plants in Mountain Province	Integrity of the environment and clinute change adaptation and mitigation	In Manufan Province, fine pixels are consumed as its and as generally calified and considered a wells brank pixel gain and an expresent in different municipalities, nample, Consembourne more 2005. Viaid locally calified askumayo and Gaalifiens is exocargo are, comregiants (S.Ved) horom locally as onlypoling in Bargy. The Classens and Will (1) J. K.Wino van Min (Ken) J. J. Mino van Min (Ken) J. J. Mino van Mino (Ken) J. K.Wino (Ken) J. K. K.Wino (Ken) J. K.	¹² A characteristic C material like technology pided for production of estimate products me field pidetice on setting with the technology pidet of the production in the list war of the project such as the ethnolocatival assessment, morphological characterization and standardization in processing methods for a pink ysieldes elide list. J Paterl 1 - 30 ethological characterization and the pink of the pink of the pink of the ethnolocation of the pink of the pink of the pink of the pink of the ethnolocation of the pink of the pink of the pink of the pink of the ethnolocation of the pink of the pink of the pink of the pink pink of the ethnolocation of the pink of the pink of the pink pink of the pink of the ethnolocation of the pink of the technology addition on the pingenement againous list Of the technolocation of the pingenetic technology of the wid the pink on year 2.5. Place and Partnership: -1 constraints with genement againous list Of the technolocation of engination on the pingenement approximation regarding the wide the conservation and management on year 2.	Moutain Province State Polytechnic College (MPSPC)	The target heard/carlies of the project are those who congrains the dividers aspecially the hearth conscious ones and all other customers who will patronize the products, tesi growers who are willing to propagate the wild the plant species, profit aniaring for the distribution channels that will link our products to our customers (teal drinkers) and during the production of the product, employees that will be hind of the production management. Tae argomers will be product, temployees that will be hind of or the product small program band their knowledge of crap products while some will be measures would not only anable the tea growers to sustainable and responsible the tea growers to measures would not only anable the tea growers to measures would not only anable the tea growers to generities and productify on their linds. Specifically, the beneficiaries include: - local generities (table downain Product) - MCBPC Moro Smail and Medium Enterprises (MSME ^{TW} s) - DENR-PENNO	01-Dec-23	30-Nov-25	ONGOING	4,410,873	1,534,787.90
	Production of bamboo pellets for sustainable and alternative source of energy using commercial bamboo species in the Philippines	Repti Inclusive and sustained economic growth	According to the United Nations there is a growing costilion of countries, circle, businesses and other installutions trait projected to deminate their carbon emissions to net according the togget pollutien of Chran, the energy sources such as biomass pollets the bages pollutient of USD 31 the by the end of 2000. The production, has huge potential curry of pollutient of the Philippines and the advanced target of pollutients of the project of the state of the pollutient of production, has huge potential to enter the market. However, preliminary actical solved that all monte pollutient and/or pollutients of the project of the properties will meet extering used pollet state/back. The means to be target be provided with the country of pollutients of the state is thermosed at the market. However, preliminary actual to improved at previous the originary countries of Pollute state. The means to be target be provided with the country of the state target and the thermosed and the market. The state is the proved at the market of the country of the government, i.e. conduct research in (1) forestry and natural resources: behands and the provided pollution of the country. This will allow add to be national 30 The proved and the country. This will allow add to be national 30 The proved respective the state of 30 The pollutients of the proved respective the state of 30 The pollutient of proved respective the country. This will allow add to be national 30 The proved respective the country. This will allow the market to behand and the head pollutions.	Debitation/Wer 13 local publications poperful Re 2 3 poperful Re 2 3 poperful Re 2 3 poperful Re 2 4 press release/hann by New 21 press release/hann by New 21 press release/hann by New 21 poperful Re 2 Ver 2 Ver 21 poperful Re 2 Ver 2 Ver 2 Ver 21 poperful Re 2 Ver 2 V	DOST-Foreal Products Research and Development Institute (DOST-FPRDI)	The target bandficiaries of the project are industry partner specially bambo industries, policy makers, government institutions, and biomass and renewable energy sectors.	01-Mar-23	28-Feb-25	ONGOING	4,606,324	877,488.00

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31.	Total Project Cost	2024 PCAARRD GIA
	Production Characterization and Potential	Papid inducive and sustained	Plastics are versatile materials as evident of its use in our everyday lives including packaning	Publications	University of the Philippines Les Pañes	The target baseficiaries of this project are the	01 Apr 22	21 Mar 25	2024'	4.009.929	1 784 007 20
	Applications of Biodegradable Plastic from Bamboo	economic growth	construction, transport, electronics, etc. It's clear that modern life would be very different without them. Since plastics are so durable and don't corrode, they create considerable disposal problems. This can be	Year 1 One (1) IEC material, i.e. information bulletin/brochure about the chemical properties of	(UPLB)	bamboo plantation developers and farmers, bamboo	01-Api-23	3 1-IVIdi -23	014001140	4,550,000	1,704,887.20
	(Bamburiastic)		attributed to the stable long polymer chains of petrochemicals. They aren't good for the landfill, as many will persist for hundreds of years. When plastics are incinerated, dangerous gases can be produced. In	bamboo and its potential for the production of biodegradable plastic Year 2		consumers who are willing to use sustainable and					
			addition, out of staggering 2.7 million tons of plastic waste generated in the Philippines each year, 20 percent of which is estimated to end up in the ocean (McKinsey, 2015).	Two (2) scientific articles submitted for publication in peer reviewed journal		environmental-friendly products.					
			To address the problem, works are continuously being conducted to replace the conventional	Patents Year 1							
			One of the possible sources of biomass for the production of Cobioplastics€ is bamboo.	One (1) invention disclosure application for the developed protocol for the production of and							
			In a previous study supported by the Philippine Council for Industry, Energy and Emerging Technology Research and Development (PCIEERD) cellulosic micro- and nano-crystals and fibrils from bamboo were	the product BambuPlastic Year 2							
			extracted and were incorporated in starch and xylan films. Improvements on the properties of the films were observed. However, these products just used minimal amount of bamboo (<12%). In addition, lignin	One patent/utility the developed protocol for the production of and the product BambuPlastic							
			was not used utilized.	Products							
			In a related completed research project funded by Philippine Council for Agriculture, Aquatic and Natural Resources Research (PCAARRD) both cellulosic materials and lignin were extracted from Industrial Tree Danation Searces (TDS). The cellulosic materials were used are addition to starch and noducing areatas	Year 1 Protocols for the extraction of lignocellulosic material from bamboo and production of biodecradable plastic shares from bamboo							
			(PVAc) while light was used as an additive to epoxy and polyfactic acid. In the studies, cellulos and light were used separately and involved the use of only up to 10% of each of the materials.	Pear 2 Biodegradable plastic with optimized properties							
			This research proposal intends to use the lignocellulosic materials from bamboo by regeneration of lignin	People Services							
			and recombining it with cellulose in a simple and direct process. Majority of the cellulose and lignin will be retained and will be converted to a plastic-like material.	Year 1 and 2 One (1) graduate student							
			The development of high value bamboo products is one of the priority programs as specified in the	One (1) technical personnel trained							
			Industry Strategic S & T Plan prepared by PCANRRU-DUST. The planting of barmboo is desirable from both an environmental and economic standpoint. Bamboos provide cover to degraded uplands and pachtic features to same increase feature their intertient and exercting upper participation.	Places and Partnership Year 1 Immunement of the EDDS Except his Materials Research Laboratory							
			The project is aligned with the government ℓ^{m_s} thrusts of poverty reduction and empowerment of the	Year 2 One (1) partnership with bamboo plantation owners/farmers or bamboo processing plant in							
	Propagation and concentration of the ten priority plants	Papid, inclusive and sustained	poor targeting the development of an alternative product from bamboo for the benefit of farmers who This project proposal will provide insight into the propagation of the top priority species for conservation	the form of MOU or MOA;	Liniversity of the Philippines Les Pañes	Local Coursement Units (LCUs) of Persper	01 Oct 24	20 Sap 26	ONCOINC	5 000 000	2 714 022 26
	in the forests over imestone of Samar Island Natural	economic growth	in the forests over limestone of Samar Island Natural Park (SINP). The top priority species were identified by Buot et al. (2024) based on their harvesting risk, economic and cultural uses, and species distribution		(UPLB)	Peoples Organization (POĂ¢,¬,¢s), residents in	01-00424	30-36p-20	014001140	3,000,000	2,7 14,832.23
	Park, Samar Island, Philippines		and frequency values. Most of these priority plants are understudied, hence information related to their propagation are lacking. Inability to reproduce these species may lead to their decline and possible			Paranas and the general public.					
			extinction. Thus, it is important to determine the best propagation method that will allow us to conserve and use these priority species in a sustainable manner. Propagation of the top priority plants for	6Ps							
			conservation will be an effective technique for increasing and sustaining the population size of these species in SINP. This study will also provide a better understanding of the biology of the top priority	Year 1							
			species. Furthermore, the findings of this study will be communicated to stakeholders to ensure the reintroduction of the priority species in their area and to promote plant propagation as a potential source of insame for the lead emmunities.	Verse 2							
			or moune for the local communities.	teal 2							
				Publication							
				Two (2) Draft articles for publication							
				ånbsp;							
				Two (2) ISI- and/or SCOPUS- indexed							
				High impact factor journal publication							
				influence and impact)							
				Patent							
	Prospecting Natural Insecticides and Preservatives: Phytochemical Analysis, Insecticidal Activity and	Rapid, inclusive and sustained economic growth	The proposed project is in support to the NICER Bamboo Research and Development Center of Central	Publication: Year 1: 1 article submitted Year 2: 1 article submitted Year 3: 1 article submitted; 5	Central Mindanao University (CMU)	Researchers,	16-Jul-24	15-Jul-27	ONGOING	5,000,000	2,334,560.00
	Preservative Potential of Extracts from Tropical Trees and Weedy Plant Species Against Powder Post		the Bamboo S&T Roadmap particularly on the development of novel products. This research will focus on exploring four tropical trees and five invasive weeky.	Patent: Patent: By Year 3Å, there should be at least 1 submitted utility model application (i.e., an effective		students, bamboo products manufacturers (and consumers of bamboo products), LGUs of					
	Beetles (Dinoderus minutus Fabricius)		plant species that have potentials as natural insecticides against bamboo borers specifically powder post beetle or PPB (Dinoderus minutus Fabricius).	plant extract as insecticide against PPB and/or as preservative) Product:		communities with the local bamboo industry. Any sexual orientation and gender identity					
			As a multipurpose and economically important crop for the country, it is essential therefore to address the threats (e.g. biotic threats) that might	In Year 1: Plant samples of 9 tropical trees and weeds plant species collected from around CMU		will not hinder the					
			affect the quality and service life-span of bamboo and its derived products.	and/or from farmerst ¹¹⁴ areas with their permission and consent; Plant extracts with potential insecticidal activity against PPB; At least 50 individuals of second 0.0Play Yang 20 path		beneficiaries of the project.					
				on bioefficacy of plant extracts; plant extract with inserticidal action against PPB screened for phytochemicals: 2							
				plant extracts tested for efficacy in vivo by partner local industry sectorin Year 3: 1							
				effective formulation of plant extract with high potential as insecticides and/or preservatives; 1							
				metabolomic profile of plant extract with effective insecticidal activity and/or preservative capability; 1							
				plant insecticide/preservative product subjected to stability testing People: In year 1, 5 students mentored.							
				In year 3, 5 students mentored. Place and Partnershic:							
				In year 1, 1 MOA forged with a local bamboo processing industry (Homebiz crafts in lligan)							
				for the initial test of plant extract In year 2, 1 MOA with another institution for							
				collaborative chemical analysesPolicy: In year 3, 1 policy build and the simulation of such at a sharing to the simulation of such as a simulation of the si							
				bamboo against D. minutus							
	Quality Assessment of Bamboo fibers from two	Rapid, inclusive and sustained	Bamboo is still an emerging	PublicationTwo (2) peer-reviewed technical	Central Mindanao University (CMU)		16-Jan-23	15-Jan-26	ONGOING	5,000.000	1,598.552.00
	economically important bamboo species for textile	economic growth	technology at the Institute, as evidenced by four (4) PCAARRD-GM-funded initiatives under the Bamboo Textiles PH trademark. Research and Development	papers		Farmers/farming communities		. 5-5017-20		2,200,000	.,
			activities on the development of bamboo textile fiber began in 2015, as DOST-PTRI deviced a fiber extraction procedure for Philippine bamboo types and determined	Patents/IP One (1) IP/Utility model Products: Year 1300 bamboo seedlings producedEstablished bamboo plantation for D. asper and B.		Garment manufacturers					
			its texte potential, in accordance with the Institute's goal of creating more sustainable products.	prumeana rear 2Information on ther yield of the 6 mos old D, asper and B, blumeana * At least 10 kilograms of fiber extracted information on fiber yield of 1 yr old D, asper and B, blumeana * At least 10 kilograms of fiber extracted information on fiber yield of 1 yr old D, asper and B.		Fashion design industry					
				old D. asper and B. blumeana * At least 10 kilograms of bamboo fiber extracted information on fiber vield of 2 yr old D. asper and R. blumeana * At least 10		Government employees					
			In the pursuit of sustainability and improvement of the existing innovations of the	kilograms of bamboo fiber extractedData on fiber and yarn properties of D. asper and B. blumeana People: At least 10							
			Institute on bamboo as a textile material, the project aims to establish a plantation of selected bamboo species such as Giant Bamboo and Kawayan-Tinik to	students/ staff trained in bamboo fiber extraction technology Partnership:							
			assess the harvested poles€™ potential in producing bamboo textile fiber (BTF). Along with pineapple, banana, abaca, and Philippine silk, the implementation of								
			the project will serve as an extra consideration for bamboo to be included in the implementing Rules and Regulations for Republic Act 9242. The goal of establishing a bamboo planting in its ensure the location of the server th								
			availability of bamboo fiber extraction and manufacturing to meet the growing demand in the Philingine textle industry as well as determine the activations are								
			(6 months, 1 year old, 1 ½ year old, and 2 years old) and morphological section (10c, middle, bottom) of two (2) bamboo species for twillie use Results from								
			previous bamboo projects have revealed that Giant bamboo is the best species for fiber extraction due to its high fiber retention, whereas Kawayan-Tinik is								
			a model bamboo species.								

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31	Total Project Cost	2024 PCAARRD GIA
	Deal time Cashen Flux Manitarian in Managara	Desid instants and sustained	In this are where the	Dublications	Consultante Descente and	Parafisiaria (Paliau Mahara// CU	01 4.4 22	24 14 26	2024'	42.074.047	0.646.670.00
	Natural, and Plantation Forests in Mindanao,	economic growth	and this era where the carbon sequestration ability of forests is being tracked for each member	Publications	Development Bureau (DENR-ERDB)	leaders/Climate Change Commission (Can be	01-Aug-23	31-JUI-26	UNGUING	13,9/1,91/	2,616,679.00
	Philippines: An Eddy Covariance Approach		imperative to conduct studies that align with the global standards of carbon	least (3) manuscripts for publication to ISI/Scopus Indexed journals		provided with policy recommendation and decision support tools to enhance major forest					
			sequestration methodologies. This is important because tropical forests like in the Philippines have huge potential to mitigate climate change through the conservation	- Two manual		ecosystems' carbon					
			of existing carbon pools (e.g. reduced impact logging), expansion of carbon sinks (e.g. reforestation and agroforestry), and a vast mangrove forest areas	guides prepared:		sequestration potentials. Results will aid in determining appropriate					
			that store huge amount of soil carbon. However, the Philippines still used conventional destructive sampling to determine the stored carbon in vegetation	1. Manual guide for eddy covariance establishment		management intervention and measures to ensure a					
			and soils on a tree-level smaller plot area. Challenges remain in determining the carbon sequestration and emissions in real time in situ in larger	2. Manual		as NDC for UNFCCC and other carbon treaties.					
			areas at ecosystem level. The country needs a more accurate carbon measurement tool indetermining the	for using the carbon-climate models		These beneficiaries can also be					
			carbon sequestration and emission potentials in a larger scale.			inventory data)2. Researchers,					
				Patents/IP		Academe, local community (can be provided with					
				- Submit at		with online tools, carbon data/information, and					
			In the context of	least one (1) IP protection (Copyright, Patent, etc)		capacity building activities)3.Graduate Students/Young researchers (Mentorship and					
			greenhouse gas inventories and monitoring, the country lacks the needed data on various forest ecosystems in terms of ecosystem level carbon fluxes. These data			training, hired as research					
			are crucial in setting standard measurements of the carbon sequestration potentials of these critical ecosystems in the context of Nationally Determined	Products		analysts)4. Carbon traders/investors (carbon data needed for negotiations, others)					
			Contribution (NDC) of the country. The Philippines submits its NDC in accordance with Decision 1/CP.21 of the Conference of Parties of the United	One (1) portable tower (to be moved 3x in plantation, natural and mangrove forests		5,,,,					
			Framework Convention on Climate Change (UNFCCC). Thus, a modern way to estimate carbon fluxes in various forest areas is necessary to provide accurate baseline.	Three (3)							
			data for decision-makers. This project is a stepping stone towards a modern era	vegetative monitoring plots (plantation, natural, and mangrove)							
			data from the gold standard state-of-the-art facilities such as the Eddy	- One (1)							
			of land surface-atmosphere-water continuum in carbon fluxes, enabling more	ualabase of carbon noxes, climate data and suppremental vegetation data							
	Rebabilitation and Streambank Stabilization of	Integrity of the environment and	precise determinations of the role of Philippine forests (as sources or sinks) The	- One (1) Publications	University of Eastern Philippines (UEP)		01-Jan-23	31-Dec-25	ONGOING	4 967 592	1 315 864 00
	Catubig River Through Vegetation Engineering	climate change adaptation and	proposed project is an intervention for the Catubig river rehabilitation utilizing venetation engineering systems through the establishment of bamboo	Year 1						.,,	.,
	systems Using Bamboo, Nipa, Annona glabra (pond apple), and Mangrove	mitigation	nipa, Annona glabra and mangrove to control streambank erosion that will stabilize the riverbanks. After stabilization of the riverbanks and successful	1 brochure and 2 press							
			plantation establishment, utilization of these resources will be pursued in	releases/articles about the project		Clienteles					
			that could augment the income to farmers through sustainable use of these	Year							
			resources. For several decades, Catubig river continuously deteriorated due to population	-		Expected Outcome / Effects Of The Project Output					
			pressure, enhance economic activity in Catubig Valley and with the recurring weather disturbances due to climate change. The current state of the river is	2 promotional materials published							
			the result of the collective practices and activities that produces major damage to the Aquatic environment due to pollution from solid waste, animal	2							
			waste, toxic chemicals, sedimentation, conversion, inorganic fertilizer run off	articles published (Data base on streambank status and impact different		Thirty (30) trained farmers on bamboo, nipa, Annona					
			of Rebadulla (2004) revealed that the river very low species diversity indices	prenerate oncompretening an acques in satisficanty interbanks and elevant prevention?		glabra, and magroove propagation and its use on					
			between 0.09 to 0.74 at otherent sampling areas along the river. Similarly, showed severe stream bank erosion and siltation along the stretch of the river.	3		the Catubig River, Thirty (30) trained LGU					
			After heavy rain, water become muddy indicative of erosion in the upper stream. Recently, climate change brought in prolonged high-intensity rainfall and	1		agricultural technicians. Three (3) municipalities of					
			frequent typhoon and low-pressure weather system that causes flooding affecting most of the barangays in Catubig valley. In Catubig alone, 45 out of 49	paper for presentation in a seminar or symposium		and Laoang.					
			barangays are prone to flooding. In addition, 70% of the area in Catubig are classified under moderate to very high susceptibility to landslide or	2 technical papers for publication in refereed journals							
			streambank erosion (CFNR-UPLB). With climate change impact to Catubig valley,	Manual		Rehabilitation and streambank stabilization of					
			area.	on Bioengineering Protocol on Streambank Rehabilitation and Stabilization using		Catubig River through vegetative engineering sysytems using nina bamboo. Annona glabra and					
				and Planting of the species used in the project		mangrove. At least one (1) farm area will be					
						identified as site for field trials and rehabilitation.					
				Patents							
	Saving the Globally Important and Critically	Ranid inclusive and sustained	soeles philippinensis Merrill & amp: Perry, commonly known as forguillworth, and locally called as		Central Mindanao I Iniversity (CMII)		01-Oct-24	30-Sep. 26	ONGOING	4 004 333	3 489 838 79
	Endangered Lycophyte, Isoetes philippinensis Merr. &	economic growth	€ceLunsay€ or €ceSisud€, stands as a critically endangered and site endemic lycophyte and was		central mindance entrendity (entre)	The Maranaos of Brgy. Angayen, Balo-i, Lanao del	01-001-24	00.000 20		4,004,000	0,400,000.70
	Perry (Isoetaceae) in Olangu River, Lanao del Norte		profound as this is the only species found in the Philippines and Southeast Asia. Its recent rediscovery in the head to be characteristic of the second sec			Norte I GU officials of Broy Annaven and municipality of					
			investigation of its unique habitat and biology. The critically endangered status of itsoetes philippinensis is	6Ps		Balo-i					
			equally alarming as the threat it contronts, as its habitat faces various challenges, including water pollution, disruption from mobile and parked pump boats, presence of invasive species, and			Community Environment and Natural Resource Office (CENRO) of the DENR					
			eutrophication (Amoroso et al., 2022). With these threats and its global importance, there is a need to safeguard the remaining population of Isoetes philippinensis by declaring the headwater of Olangu River	Year 1		Tourists/guests					
			as a critical habitat. Isoetes philippinensis is a vascular heterosporous lycophyte with a unique habitat as they are submerged aquatic plant, thriving in the bottom of the headwater of Olangu River. Lanao del	Year 2		Teachers and students of Balut Primary School					
			Norte. It has a simple morphology consisting of a compact stem (corm), leaves with a single vein and arranged in a spiral formion a rosette and surken sporangia. Its unique evolutionary history makes it								
			more interesting in that isoetes is the only genus of the isoetaceae family, already present during the								
			philippinensis and surrounding areas with the following objectives: (a) assessment and extensive	Publication							
			inventory of plants and animals located in the headwater of Olangu River and surrounding areas; (b) describe its morphology, ecology through its quantitative and qualitative characters; (c) analyze the								
			physico-chemical properties of the water; (d) conservation will also be implemented through in situ and ex situ strategies; (e) enhance awareness regarding the biology of I. philippinensis by preparing CEPA	Draft articles for publication: ånbsp;							
			materials; and (f) development and management plan will be prepared to declare the headwater of Olangu River as a Critical Habitat. The objectives will be achieved by: (a) following the proper	One scientific article Two Communication, Education and Public							
			entry protocol; (b) site and species assessment will be done by documentation and collection for taxonomic studies; (c) the water€™s physico-chemical properties such as its temperature nH electrical	Awareness (CEPA) Materials							
			conductivity (EC), turbidity, dissolved oxygen (DO) and total dissolved solids (TDS) will be masured; (c) in situ conservation will be done by ocular survey for observation and consultations?	Submitted for publication:							
			occupancy, and ex situ conservation through propagation of mature mother plants originating from the	ånbsp: One scientific atticle							
			pamphets for dissemination; and (e) present research results to major stakeholders and recommend	Two Communication, Education and Public							
			science-based policies for the legislation of Olangu River as a Critical Habitat.In a 2-year period, this research will deliver the following outputs: (1) One scientific article and two CEPA materials; (2) Ex situ	Awareness (CEPA) Materials							
			propagated plants of Isoetes philippinensis; (3) One utility model (UM) for spore propagation protocol; (4) The Maranaos capacitated; (5) Strong partnerships with the local officials of Brgy. Angayen, Municipality								
	Smart Cacan Budwood Nurseny and Greenhourse for	Ranid inclusive and sustained	of Baloi, Lanao del Norte Province and the CENRO of DENR; and (6) Science-based policy Carao (Theohroma carao L.) is one of the world's most valuable tree cash	Publication:	University of Southern Mindance (USM)	The beneficiaries of the project primarily include	01- Jan-22	31-Dec 26		24 176 622	4 417 957 60
	Production of High-Quality Planting Materials	economic growth	crops. World Cocca Foundation (2014) estimates that global cocca production is		oniversity or obusient minuanao (USM)	cacao breeders, cacao farmers, cacao plantation	01-080-23	51-DBC-25	0.100110	29,1/0,023	4,417,937.00
			resulting in a total export value of \$9 billion (ICCO 2020a). By 2020, wordbuilds, corps demonst is expected to resch 47 million to million metric	At laset 1 scientific paper		growers, nursery owners, cacao bean processors, cacao industry, consumers, and novernment					
			tons (DA, 2016). The Philippine Statistics Authority has reported 9,340 MT from 31.06.2016 bendance in 2000, be serviced and a service of the service of th	At least 2 paper presentations in conferences related to cacao genomics and smart cacao		agencies such as the Bureau of Plant Industry and					
			a 1,200.30 recuares in 2020. In comparison, wory Coast produces one million metric tons per year, Ghana produces 800,000 metric tons per year, and Indonesia	uuuwoou nuisety and smart cacao greennouse		DUSI-PCAARRD for the product and technology.					
			produces 400,000 metric tons per year. Cacao production is constrained by several factors including low yielding cultivars, a lack of quality planting								
			materials, a limited area of cacao production, a lack of awareness and technical know-how about improved technologies, limited technical support, and	Leaflets, brochures on true criollos in the Philippines, smart cacao budwood nursery and							
			a lack of access to market information and high-value markets. To boost cacao production in the country, efforts are exerted to expand cacao production areas	smart cacao greenhouse							
			as well as plant high-yielding varieties. Cacao varieties such as UF18, BR25, UIT1 K1 UCS40 K2 K9 P7 DR1 S5 PRC123 USMCH1 and USMCH2 are recommanded								
			by the National Seed Industry Council (NSIC). Due to their excellent yielding	Patent:							
			Criollo, is one of the most widely grown chocolate cultivars because of its								
			exquisite flavor and aroma (MuAaoz et al. 2019). Through the PCAARRD funded projects in cacao (Functional Genomics-assisted Development of Gene Markers for	Utility model for molecular identification of true Criollo							
			Economically Important Traits in Cacao Production and Varietal Improvement), (Validation of Molecular Markers for Identification of Cacao HYVs, Criollo								
			Types and Disease Resistant Varieties Through Marker-assisted Breeding), and (Molecular Fingerprinting of Cacao Parental Recommended HYVs and True Criollo								
			Ensuring Multiplication of Quality Planting Materials (QPMs) for Increased Productivity and Profitability), molecular makers were concented, validated and	At least 2 utility models/ patents for apps							
			used for fingerprinting of NSIC recommended high yielding varieties enabling								
			(BPI)-certified mother trees and distribution or dispersal of authentic cacao	Product:							
			premierg source to vanous cacao nurseries. Utner promising high yielding and disease resistant cacao accessions have also been identified.								
				At least 2 software applications							

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of	Total Project	2024 PCAARRD
			Tenus is longue unableide as source of Tenus as anti-senses days. The sension ratios is the Ohlinaises.					04.1.1.00	2024'	0051	GIA
	Native Taxus Species (Taxus wallichiana Zucc.)	economic growth	is Taxus valichiana Zucc, which was reportedly been exploited for the taxol extraction. Other potential user of Taxus valichiana Zucc, which was reportedly been exploited for the taxol extraction. Other potential user of Taxus Tax is assertial of which increasing demand should Tak bits costs of second tak bits of the taxol assertial of acultad		Development Institute (DOST-FPRDI)	Department	01-Aug-24	31-Jul-26	ONGOING	4,989,064	6,122,600.00
			to rampant illegal collection, decreasing population, and inclusion of Taxus in DAO 2017-11 (National List of Threatened Philipping Plante) and CTES (Conservation on International Trade Endponeeral Special			of Environment and Natural Resources Offices (DENR)					
			As of to date, there is no existing data on the distribution nor policies specific for Taxus harvesting and collection. Publications on the potential uses, chemical characterization, propagation, and threats are	6Ps		Local					
			limited despite of its promising uses for medicinal uses and economic value. To address this gaps, resource survey and mapping will be conducted to determine the geographical distribution of T.	Year 1		Government Units (LGUs)					
			wallichiana. Meanwhile, different methods and treatments will be tested to develop the Taxus propagation protocol. Several interviews, capacity buildings and trainings will be conducted to capacitate			Local					
			the local communities in the protection and conservation of Taxus in their areas.	Year 2		Communities / People Organizations (PO)					
						State University and Colleges (SUCs)					
				Publication		Research					
						and Development Agencies					
						Native tree Epthysiants					
				3 technical articles submitted for publication							
				Acrease i printed leo material							
				Patent							
				DIF							
	Textile Fibers from Philippine Climbing Bamboo Species	Rapid, inclusive and sustained economic growth	In support of the Department of Science and Technology - Niche Centers in the Regions for R&D UPORT NICED Department of the Center Mindness University actition for technology	Publications	DOST-Philippine Textile Research Institute (DOST-PTRI)	Farmers/farming communities	01-Jan-23	31-Dec-24	ONGOING	10,184,196	4,061,960.35
			R&D Program for Capacity Building of Research and Development Institutions and Industrial Competitiveness: Nicho Center	species from Northern Mindanao		Craft makers Handloom weaving communities					
			(NICER) Program: Bamboo R&D Center€, the Philippine Textile Research Institute explores the possibility of including the climbing bamboo species to	One (1) technical article on the yarn quality of climbing Bamboo species from Northern Mindanao		5					
			be one of the fiber sources for textile material. This project aims to establish the technical and economic viability of textile fiber from different	One (1) technical article on the potential of							
			climbing bamboo species found in the Philippines. The fiber extraction technology will be applied through mechanical extraction, alkali treatment, and	climbing Bamboo species as textile materials							
			yarn processing. The extracted textile fiber for each species will be characterized for its fiber property and processability. Bamboo	Detect							
			to a remainancy suscensule and versable source of raw materials, especially for textile. Bamboo textile is known for its benefits such as being antibacterial, highly absorbent, hynoallergenic, and eractirend(v fabrics	name							
			These fabrics are usually subject to a high price in the market due to its intensive noncorres. Sustainability of raw materials is the priority	from climbing bamboo species)							
			to cope with the demand for naturally made fabrics. Erect bamboo is the common source of fibers for textile manufacturing, hence, making it more susceptible	One (1) IP (Utility model/industrial design for yarns rendered using the bamboo blended and natural textile fiber blended							
			to the exploitation of raw materials as the demand for bamboo testile increases. Climbing bamboo characteristics are commonly compared to the same	yams)							
			climber species which is Rattan (Calamus rotang) that is normally utilized for handicrafts. Climbing bamboo is less known for its market value								
			since erect bamboo are commonly known to people due to its diverse purpose.	At least 100km							
				of basic rookgs of bamboo fibers for each identified four (4) climbing Bamboo species from Northerm Mindanan							
				At least 40kgs							
				bamboo blended yarns for each identified four (4) climbing Bamboo species from Northern Mindanao							
			The climbing bamboos are yet to explore and remain untouched for exploration of its market								
	Valorization of Bamboo Processing Wastes for Adhesive and Coating Applications (BAMVALOR)	Rapid, inclusive and sustained economic growth	Valorization of bamboo processing wastes through the development of innovative, eco-friendly and economically-promising products,	6Ps	University of the Philippines Los Baños (UPLB)	The target beneficiaries of this project are bamboo processing companies, bamboo plantation	01-May-23	30-Apr-25	ONGOING	4,999,371	1,799,223.20
		Ĭ	i.e. bio-adhesives and bio-coatings is aligned to the bamboo industry strategic S & T plan. The transformation of the bamboo processing wastes into	Publication		farmers, related downstream					
			value-added products will contribute to the optimal utilization of the resource. The General valuering material file intended to rankee or substitute existing adhesive	rear 1 One (1)		sustainable and environmental-friendly					
			materials which contains phenols and formaldehyde. Both phenol and formaldehyde are considered environmentally unfavorable chemicals and associated with	IEC material, i.e., information bulletin/brochure on utilization of bamboo processing wastes.		products from barriboo processing wastes.					
			several health issues by the Environmental Protection Agency (EPA). The European Chemical Agency (ECHA) has also classified both phenol and	Year 2							
			formaldehyde as mutagenic, carcinogenic, and reprotoxic chemicals. Formaldehyde is also used in some other resins in addition to the phenol@formaldehyde resin,	One (1)							
			such as urea formaldehyde (UF) and melamine formaldehyde (MF). The developed bio-adhesives will be used as a binder for plywood manufacture and participated bankse. In addition, its addition is a solution of the solution	IEC material, i.e., information bulletin/brochure on utilization of bamboo processing wastes (updated).							
			binding characteristics will be tested on different adherents including aluminum, polycathorate plastic and papers. The coation material on the other hand is expected to protect wood	Drafts of two (2) scientific articles for possible publication in peer							
			and bamboo products used for outdoor applications from the harmful effects of UV radiation. This	reviewed-journals							
			project will work on the new protocols or improvements on existing ones (if available and applicable) to come with products whose properties are at par	ånbsp;							
			with commercially-available ones in terms of quality and safety.	Patents							
			As mensioned, intege innovations are intended to be applied to bamboo products, thereby effectively repurposing the wastes into new products that could also directly benefit the bamboo inductor. Bamboo waste	rear 2							
			valorization may create markets that will bring about benefits in the form of additional opportunities and income for the different players in the bamboo	disclosure application for the developed protocols for the production of, adhesive and functional coating material from lignin bamboo processing wastes							
			industry and additional total value added to the supply chain. The development and utization of these products may address the problems associated with the over reliance to fossil-based	ånbsp;							
			materials which are not infinite and have so many detrimental effects on the environment. The main objective of this study is also consistent with the	Products							
0			Autometerments on the Sustainable Development locals (SDGs) particulary goals 1, 8, 12, or No Poverty, Decent Work and Economic Growth, and Responsible Consumption and	Year 1				40.11	01100011-2		
Characterization and Performance of Ten (10) Promising Varieties of Cacao in	Proj. 1 Yield and Bean Quality Evaluation of Ten (10) Promising Cacao Varieties in Type II and Type III	Integrity of the environment and climate change adaptation and	The cocoa tree, Theobroma cacao L. is one of the very popular crop created a rapidly expanding market with a very high price stimulated production and export in all suitable islands. Technological	 Selected 1 or 2 cacao varieties with outstanding performance adaptable to high, medium and low elevation. 	University of Southern Mindanao (USM), Sultan Kudarat State University	The beneficiaries of the project primarily include nursery owners, cacao farmers, cacao plantation	16-May-23	15-May-25	ONGOING	2,760,000	535,921.74
Different Agro Climatic Zones in the Philippines	Agro Climatic Zones in Northern and Southern Mindanao	mitigation	improvements and emergence of new product like chocolate bar in the late 1800s created rapid increase and demand, in the Philippines, cacao flourished into an industry with 9% average growth rate in	 Identified varieties for combined elevation and climatic type- with resistance to pest and diseases and high productivity level. 	(SKSU), Agusan del Sur State College	growers, cacao bean processors, cacao breeders,					
, implands			production (19/7-1990) due to increase in production area i.e. from 4,400 rectares in 1986. Ironically, as the hectares in 1986 with estimated production of 2,900 tons in 1977 to 6,240 tons in 1986. Ironically, as the Publiching Cross Inductive use starting to prove the implementation of the Complements Acresian	 Production of IEC materials. Partial budget analysis for multilocation cacao trials. Canacity building and discarringtion of new technologies to fermer. 	(ASSCAT)	agencies such as Bureau of Plant Industry					
			Reform in 1998 fragmented the well performing commercial cacao farm.	o operative sense of the second se							
			The Philippine government realized the importance of cacao due to its high demand both in domestic and international markets. The current plan of the government and private sector to increase cacao								
			production to 100,000MT in 2022 calls for a lot of planting materials (Philip-pine Cacao Industry Roadmap 2017-2022). This would mean a lot of hectarage to be planted from the current ~30,000 has. If								
			we average 1 ton of beans/ha, then we need to plant 70,000 has more.								
			Cacao production nowever, is beset with several problems like pests and diseases, poor cultural practices, and use of low yielding and poor quality planting materials. Several varieties which are of good quality (i.e. crialle) and propriories in terms of yield (i.e. W100 are worthwhile to be tested for future use of								
			our cace of america. Definitely, identification of well adapted varie-ties will benefit growers as the burden of trvino out varieties will be lifted from the farmers™ shoulders and definitely ustifies the resources								
			invested in it. The output will be varieties identi-fied to do well in a particular agro-climatic zone and can easily be disseminated by informing accredited nursery owners priority varieties to be propagated in each								
			region and by providing them the mother plants as scion source. The output of this research will benefit the DA for its cacao expansion program, DAR ARBs and NGP of DENR.								
			To date, cacao production is one of the researchable areas under ISP of PCAARRD through identification								
			or supersor variences in remits of years and its toterance to pesss and dis-eases adapted to specific locations. Moreover, production of good bean characteristics and their availability to local cacao growers annear to be the best short term, strateging to generative improvements and service increased term!								
			productivity. Newly introduced clones from the In-ternational Cocca Quarantine Center based at the University of Reading. UK and even local varieties represent notential source of desirable traite								
			Assessment of performance of promis-ing hybrids generated from local and introduced varieties in local conditions is a valuable step to determine their suitability for future genetic manipulation. Moreover, this								
			research undertak-ing may lead to the identification of superior varieties of cacao for general and specific recommendation.								

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
Characterization and Performance of Ten	Proj. 2 Yield and Bean Quality Evaluation of Ten (10)	Rapid inclusive and sustained	The cocoa tree, Theobroma cacao L. is one of the very popular crop created a rapidly expanding market	1. Selected 1 or 2 cacao varieties with outstanding performance adaptable to high, medium	DA Region 11 Visavas State University	The beneficiaries of the project primarily include	16-May-23	15-May-25	2024'	2 240 000	294 438 00
(10) Promising Varieties of Cacao in Different Agro Climatic Zones in the Philippines	Promising Cacao Varieties in Type I and Type IV Agro Climatic Zones in Southeastern Mindanao, Visayas and Northern Luzon	economic growth	with a very high price simulated production and export in all subble latends. Technological improvements and empowered new purportil dis chocadals bar the fuels (100) careader rapid increase the subscription of the subscription of the subscription of the subscription of the subscription of the production (1077-1198) due to increase in production areas is from 4.400 heterase in 1997 he 552.00 excitates in 1988 with estimated production areas is short 4.400 heterase in 1997 he 552.00 Philipping Cacea Inclustry was starting to grave, the implementation of the Comprehensive Agrarian Reform in 1018 regimented the eval performance communication and the subscription and the subscription and the subscription of the comprehensive Agrarian Reform in 1018 regimented the eval performance communication and the subscription	and low elevation. 2.1 SettemBed unders for combined elevation and climatic type- with resistance to pest and 2.1 SettemBed underscherichter elevation of the settemBed elevation of BCD materials 3.1 Production of BCD materials 4.2 Production of BCD materials 5. Capacity building and dissemination of new technologies to farmers	(VSU), Benguet State University (BSU)	nursery owners, cacao farmers, cacao plantation growers, cacao bean processors, cacao breeders, cacao industry, consumers and government agencies such as Bureau of Plant Industry		-			
			The Philippine government realized the importance of cace due to its high demand both in domatic and international markets. The current gina of the government and physics stort to increase caces production to 100.0004T in 2022 calls for a lot of planning materials (Philoppine Caceo Industry Roadmay 2017-2022). This would mean a lot of hectange to be planted from the current -30.000 has. If we everage 1 ton of beamsha, then we need to plant 70,000 has more.								
			Cacce production however, is here util serving productions like piets and detestes, poor cultural descent production however, is here util or developed by the service of the service of the service of analyti (i.e. crisic) and promising in terms of yeal (i.e. with) one schemble to be tested or four casce formers. Definely, identification of well adapted varie-fies with beneft growers as the burden or typic qui varieties with bind from the matemat ² shadders and definely justifies the sequences analytie of a schemble by informing according to unarged manager channels care and can analy be discuminately informing according transfer damager and production analytic damager and by informing according transfer damager and production analytic damager and by informing according transfer damager and production and by the discuminately informing according transfer damager and and the discuminately informing according transfer damager and the discuminately informing according to the state of the discust and the discust and the discussion transfer damager and the discust and the according transfer damager and the discussion that many constraints and the discussion and the discussion transfer damager and the discussion transfe								
			the DAF for its casace expansion program, DAR ARBs and NOP of DENR. To date, casace production is one of the researchable areas under ISP of PCAARRD through identification of support waiteries in them of lyrel and a bitamons to passe and decases shaped to specific dispervice unless the term of lyrel and a bitamons to passe and decases shaped to specific appear to be the best droit term - strategy to genetically improve casace and ensure increased local productivity. Revent Production of the increases of coordination of decased at the University of Reading, UK and one local laritieties represent potential source of desized traits. However, the shaped to be the term is shaped by the shaped by the strategy of the shaped of the University of Reading, UK and one local laritieties represent potential source of desized traits. However, the shaped by the work theorem. This conditions is a subject by to determine the shaped by Charlow genetic many painter. Mercure the Nerver, the shaped by the shaped by the work theorem the shaped by								
			research undertak-ing may lead to the identification of superior varieties of cacao for general and specific recommendation.								
Managing Cocoa Quality in the Post- Harvest Process: Biological Approaches for the Management of Mycotoxins and	Proj. 2 Management of Storage Insect Pests and Mycotoxins of Cocoa Using Biological Control Approaches	Integrity of the environment and climate change adaptation and mitigation	After harvest, the cacao bean is fermented, dried, and stored. Farmers remain vulnerable to production losses during these processes and the quality and flavor of the product is defined by the environment and the methods used. Post-harvest processing fails upon the pillars of productivity and adaptation. Earment incomes and derevalent on the assume of across harves that are neglitication to the survey and suport.	GPE Metrics Publications (no. of paper published/peer reviewed and IEC materials, citations) Year 1 toublication	De La Salle University (DLSU)	Postharvest Facilities Other Partners/Adaptors Bureau of Plant Industries (Pest Clinic Laboratories)	01-Jul-22	30-Jun-25	ONGOING	6,742,532	1,179,070.60
Storage Pests of Cacao			Failine incomes are objectively on the anisotic to do a vession of the anti-out solution of the anti-out solution of the anisotic to be were environmental sing and use solutions (e.g. humidity) and factors related to the process (e.g. shared aning fermentation). The last step in cocce processing is a concern of the set of the solution of the set of the solution of the set	Year 2 3 publications		Municipal Agricultural Offices Farmers as identified by DA Regional Offices					
			storage pests such as warehouse moths and red flout beetles. These insect pests of stored products have for long greatly depended on the use of synthetic insectifieds and firminants which have multivates of prohlems such as residues in products, and	Manuals, Guide, IEC materials for on-site detection (at least 3) Paterias (no. of paterias, IP filing) Pateria anciliation on the next management (nois							
			insecticide resistance. Thus, a big concern on food safety. Warranting the need to explore alternative method(s), which are bio-based. Losses from insect infestation in the postharvest facility is ranging from 5-30% and can reach 100% if felt unattended especially when the beans become unifit for human and	Products (perceived future value, value of commercialized products) Karomone/pheromone trapping system							
			animal consumption due to increase Free Fatty Acid (FFA) content brought about by the after feeding effect of the storage insect pests.	Biocoating agent People and Servicess (no. of MS, PhD Graduated, no. of trained personnel, value of public memory methoded Vices 1							
			This project there are called posinial west program with events a transmission and an an an and the population in a strange intern system with innovative tools in controlling the population of storage insect pests on coccos beams. Innovative bools include monitoring and control elinoscy pests through semicohemicals, the use of biological control agent(s), and tradies in the storage insect pests through semicohemicals, the use of biological control agent(s), and the addies in the storage insect pests and the storage the storage the storage semiconduction of the storage semiconduction of the storage semiconduction of the storage to the storage semiconduction of the storage semiconduction of the storage to the storage semiconduction of the storage semiconduction of the storage semiconduction of the storage semiconduction of the storage semiconduction of the storage semiconduction of the storage semiconduction of the storage semiconduction	Release 2 graduate students (MS/PhD in Biology, and Computer Science) Year 2							
			pest management system will serve as sarly detection and quick response to mitigate the effect of storage insect pests as well molds resulting to superior quality of cacao beans for local consumption and will increase competitiveness of the country in the international market.	Farmers (at least 25 for each location): Agricultural technicians (at least 2 for each partner agencies							
				Places and Places (b) (b) San tips for they incovered Signed) concerned agreecies (ike LOB, DA, and academic institutions and potential industry partner Michigan State University							
				Policies Policy brief governing innovative postharvest operations towards production of superior auality occoa beans							
				21s (Impacts) Social							
MC Bahanaw Boouversity Assessment, Valuation and Conservation	(rd) z. Fagrodučne Prehodogy, Projadjačno, and Hobina Charactization of Threatened and Eucloan Scharzberg (Scharzberg), Scharzberg (Scharzberg), Scharzberg Eucloan	rapo, inclusive and sustained economic growth	Assessment of Finan and Fanza, and Macrollugi PM, Banshake Ke Luchart and the program TM. Banshake Biodrawsky Assessment, Valuati and Conservation", to perciliarly addresses the conservation of threatened and economically valuable films in Mt. Banshaw de Luchan (MBd.).	per planatorine data (2011) control Antonia base planatoria indexatoria and exploritation watable plants in MBIL Obverlaged protocol on species progradion (secal and assessed of secalar plants in MBIL Obverlaged protocol on species progradion (secal and assessed) of an able plants in MBIL Obverlaged protocol on species progradion (secal and assessed) of an able plants in MBIL Obverlaged protocol on species progradion (secal and assessed) of the plants in MBIL Obverlaged on the obverlage of a corronatorial valuatorial plants in MBIL Prograd Secal field here the three species of the three three of the obverlaged on the obverlaged in the obverlage on the obverlaged in the obverlage on the obverlaged on the obverlaged in the obverlage on the obverlaged in the obverlage on the obverlaged on the obverlaged on the obverlage on the obverlaged on the obverlaged on the obverlage on the obverlaged on the obverlaged on the obverlaged on the obverlaged on the obverlage on the obverlaged on the	Soliterin Luzon Salte University (SLSU)	The immediate beneticians of me project are the benetic fammer. Commonly vesified, Selation- makers, Government Institutions engaged in Environmental conservation (DENR, PAMB, LGUE*9), Non- Government Institutions (NGO, PGE*9), SIGL: Other academic institutions (SUGA), Researchent: inforcestation programs or tree plocaded alice base of MBCSCH and vesifies. The community.	UT-Jan-23	30-JUN-25	UNGUING	4,999,050	2,359,325,20
	A Valorisation of Agri-Fishery Materials Using	Integrity of the environment and	AWAMOS, which stands for A Valorisation of	Publication 1 scientific paper on the product development	University of the Philippines Visayas	Mussel Producers, Mussel Processors,	01-Jan-23	31-Mar-25	ONGOING	4,937,122	2,083,179.60
	Uppertune science (XVANUS): Nationaterials from mussel shells for agri-aquaculture applications	cinital change acaptation and	Applicitizations Materials using Opportune Science, Is a registered trademark of UP Varges researchers whole goal to a transform low value and/or water materials in high value bioteaned materials. It abdies by the principles of gene chemistry and circular princerelity gus value bioteaned materials. It abdies by the principles of gene chemistry and circular princerelity gus value bioteaned in allowances the application of these principles can massed shells. For worksholds to aster and the state of the state of the state presenters to the values and the state of the state generators to the values and the state of the state of the state products the are annexed. UP of weekpeel enclosings for fit assess products the state annexed to state of states as typicorticis which can be processed by AlWANG the products for potential use in applications and aquaculate terms in the region. Thus, the specific tasks in this private a non-potential generate to state and the state synthesize nano-typicargeneties from mused shells for applications which can be processed by AlWANG the products for potential use in applications and aquaculate terms in the region. Thus, the specific tasks in this private a non-typicargeneties from mused shells for applications of synthesize nano-typicargeneties from mused shells for applications and applications and a mused to the state terms of the terms of terms of the terms of terms of terms of terms of terms of terms of ter		(UPY)	aquactures farm operators, Nanofertilizer developers and consumers, Academia					
			ensure that innovation anchored on green nanderthindigy processes and circular economy is translated into positive impact to acceety.	3 BS of MS students involved Sensarchen transf 2 Invention, finged Place and Pattership I Calibadank Research Agreement with an aquaculture farm operator I Calibadank Research Agreement with an aquaculture farm operator Policy I colory occommendation input on the integrated use of mussel water products to support							
	An investigation of biological and exogenous cues	Poverty reduction and	To enhance the production of mussel culture through the identification of factors influencing the meat	the creation of livelihoods. Publications	Mindanao State University Naawan	Men and women mussel producers, Men and	01-Oct-24	30-Sep-26	ONGOING	4,999,702	1,841,826.00
	towards the upgrading of harvest efficiency and spatfall prediction of green mussel Perna viridis (iCUES-Mussel)	empowerment of the poor and vulnerable	quality and spattall leading to the identification of ideal harvest period and spatfall patterns.	Journal article drafted for submission to ISI/Scopus indexed journal Z technical papers presented in scientific conferences.	(MSU-Naawan)	women Processors, LGUs, communities, fisherfolks, people€™s organization, students, researchers, national line agencies, academe private sectors					
				Patents 1 IEC material submitted for copyright.							
				People and Services 3 BS Students, 1 MS Student, 5 partners trained in data collection and analysis, 2 faculty mentees							
				Places and Partnerships 4 MOU/MOA (with BFAR X, VI, LGU of Carriguin and Sapi-an Capiz, 2 Higher educational institution)							
				Policy Recommendation Policy recommendation on mussel harvest and culture							

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
	Antimicrobial resistance (AMR) in tilapia production	Poverty reduction and	The dramatic growth in aquaculture production due to an ever-increasing human population has led to	Publication:One (1) Scientific Poster/ Oral PresentationOne (1) Draft Scientific Journal	Iloilo Science and Technology		01-Oct-24	30-Sep-27	2024' ONGOING	8,995,676	4,131,892.00
	environments and associated important piscine bacterial pathogens in the Philippines	empowerment of the poor and vulnerable	the rise of numerous challenges. One of these is the occurrence of disease outbreaks caused by virulent bacterial pathogens. To address this problem, one of the most widely used prophylactic and therapeutic	PublicationTwo (2) Draft Scientific Journal PublicationsOne (1) Protocol Manual on Rapid Detection of presence of Antibiotic Residues in TilapiaOne (1) Protocol Manual for	University (ISAT-U)	Aquaculture industry Fish consumers					, . ,
			methods is the use of antibiotics. However, the overuse and misuse of antibiotics has led to a high level of antimicrobial resistance (AMR) in aquaculture. Moreover, the drugs used to control bacterial infections	Metagenomic Analysis for Rapid Detection of Antibiotic Resistance Genes (ARGs) in TilapiaPatent: One (1) Utility model on Rapid Detection of presence of Antibiotic Residues in		Male and Female Researchers					
			In tists tarms are usually the same as those used in numans and animal nusbandry which can threaten global health and food security. The occurrence of AMR in South East Asian aquaculture has not been compiled wat and available information is still scare. In the Shilippinas few studies have been done on	TilapiaProduct-Une (1) Protocol on Rapid Detection of presence of Antibiotic Residues in TilapiaOne (1) Protocol for Metagenomic Analysis for Rapid Detection of Antibiotic Resistance Genera (APGs) in TilapiaPanelis Al least 2 Cardinale Students (1) Pho. 1 MSc) and 2		Health sector					
			AMR, and a comprehensiveresearch work on AMR in tilapia farming is non-existent at the moment. Detection of drug-resistant phenotypes and genotypes can be used to monitor and correlate bacterial	Undergraduate Students supportedAt least 2 Research Staff trainedPlace.One (1) MOA with National Fisheries Research and Development Institute (NFRDI) C ⁺ Fisheries Biotechnology							
			infections and epidemics in different tilapia farms. Understanding disease/mortality outbreaks in tilapia aquaculture production through the lens of AMR research will help contain the spread of AMR via the	Center (FBC) and Brackishwater Fisheries Research and Development Center (BFRDC)One (1) MOU with University of StirlingPolicy:One (1) Draft policy recommendation on the proper							
			aquaculture value chain and minimize their associated human health risks.	use of antibiotics, and detection of antibiotic resistance in fish production especially in tilapia aquaculture in the Philippines							
			71						011000110	5 000 000	0.110.071.70
	Assessment of Invasive Exotic Fish in Laguna de Bay	Rapid, inclusive and sustained economic growth	The project will come up with an Atlas of invasive species in Laguna de Bay that includes reference information on the spatial-temporal distribution, prev preference, and	Publication: 2 draft ISI journal article submitted for publication 1 IEC material (posterPatent: N/AProduct: Map of species distributionPeople: 2 Indergraduate Thesis Student	(UPLB)	Primary beneficiary of this project will be the fisherfolks relying on fish catch from Laguna de Bay	01-Aug-24	31-Jul-26	ONGOING	5,000,000	3,112,074.70
			reproductive biology of exotic fish in Laguna de Bay, this can be done by regularly collecting enough specimens of present exotic fish at different	Training/Workshop of ResearchersPlace: 1 potential MOA/MOU with LLDA and BFARPolicy: Policy recommendation for management of alien invasive fish.		for their source of income. Conservation efforts for endemic fish species of Laguna de Bay will benefit					
			sampling sites to get a picture of their population size and distribution across time and space; feeding ecology which will be established through			from more information on the potential threats posted by the presence of alien invasive aquatic					
			routine analysis of their gut contents; reproductive biology of each present invasive exotic fish then will be assessed through monthly gonadal examination of both events; and the information on the divertity, shurd and and ordential			species.					
	Dennis Funneration Internated Depline and Lingth	Desid inclusion and sustained	negative impacts of these exotic fish will be established		University of the Obilizations Les Dation		04 Dec 04	20 Nov 20	ONCOINC	00 746 400	0.400.000.00
	Monitoring of Milkfish in the Philippines	economic growth	has been rapidly increasing in recent years and is one of the fastest-growing food sectors, serving as a valuable element for national and community		(UPLB)	businesses and milkfish farmers by providing an	01-Dec-24	30-1404-20	ONGOING	23,710,100	9,129,299.90
			development in many areas worldwide. Significant advances have been made in microbiology and molecular biology to allow for better management of pathogen	6Ps		new targets for the early detection of unknown and					
			risks in natural environments, including aquaculture production. In the Philippines, several efforts have been undertaken to determine and identify	Year 1		less studied pathogens in milkfish. Early detection of possible new emerging					
			mikitish microbial pathogens, though most identification methods remain culture-dependent. To date,	Verse 2		pathogens would put the Philippines one step ahead in case an outbreak will					
			culture-dependent methods in the detection and identification of these pathocens. This can lead to an underestimation of less-studied and	teal 2		happen in the future.					
			non-culturable pathogens. Furthermore, the interplay of different factors including environmental exposures affecting bangus health and productivity has								
			not yet been fully studied. The main gap addressed by this project is the lack of characterization of the exposome of bangus as it relates to bangus health	Publication							
			and productivity which can be done through early detection of pathogens, unraveling microbiomes, analyzing fish health and monitoring water quality, immediate additional to the balance of the context of the second secon	One (1) ISV Scopus Publications							
			impeceng minish aquaculture in the Philippines.	Two (2) ISI/ Scopus Publications							
			This								
			project aims to investigate the microbiomes, emerging pathogens, water-environment quality, histopathology, and potential N-glycan biomarkers related to the overall								
			health of bangus. By focusing on these, the project seeks to fill the identified gap by providing a	Products							
			creater understanding of the bangus exposione, that is, relationships between microbial communities, pathogens, environment, and possible health biomarkers impaction the biology of bangus. The data gathered will enhance knowledge of	None							
			bangus health and productivity, ultimately contributing to more effective disease management, sustainable aquaculture practices and a boost in bangus	One (1) Scorecard guide for health assessment of milkfish							
			productivity.								
	Broodstock Development of the Mangrove Crab Scylla	Rapid, inclusive and sustained	Scylla olivacea (Herbst, 1796) is one of the four managine crab spacing (Keense et al. 1998) and the most widely.	Publication: 3Patent: 2Product: 2People: 4Place: 3	University of the Philippines Visayas	1.	01-Mar-25	28-Feb-27	ONGOING	5,000,000	2,791,312.00
	olivacea	economic growth	distributed and dominant mangrove crab species in the West Philippine Sea and between islands of the. archipelago (The Mangrove Crab Technical Committee 2018; Walton et al.,		(UPV)	Brackish water pond operators and workers					
			2006). Being relatively smaller compared to other mangrove crab species, S. olivacea are less exploited in aquaculture production			2. Hatchery operators and personnel					
			(Castrence-Gonzales et al., 2018) but has also become a major cultured crab in countries with a significant estuarine mangrove area such as the Bangladesh. The importance of the maximum area encountries with a such as the bangladesh.			3.					
			to the wide fluctuation of environmental parameters of estuarine area (Lebata et al. 2009) and resilient to many viral diseases that affects other crab and			Men, women and children in coastal communities					
			shring species making them ideal for restocking in mangroves, estuarine and other areas with highly fluctuating or low salinity environment. Protocols for			4. People in academe (Faculty, Researchers, and					
			breeding and seed production of mangrove crab has been published (Shelley and Lovatelli 2011; Quinitio et al. 2008; Fortes et al., 2002) but this was mainly			students)					
			developed and established for other species. As a particular species distinct from other mangrove crabs, there must be unique and specific requirements for			5. Local Country and Units					
			their rearing and management to ensure good survival, development, growth and reproduction. These works however would be a very valuable basis for the development of brandition and read production strengthment much million for Sculla diverse. The			Government Onits					
			Philippine population of S. olivacea is composed								
			of several genetic clusters (Paran and Ravago-Gotanco 2017). These stocks being adapted to the dynamics of their local environment had acquired different								
			levels of growth and reproductive potential, and tolerance to disease and environmental challenges. The findings of the study will serve as basis for the potentiar of course for 2 diverse and the study.								
			to be evaluated for their suitability as breeders for aquaculture production. The present study is an initial step Inward enhancement of their aquaculture								
			potential through selective breeding and domestication. This approach would ensure supply of high health broodstock for the hatchery facility and for other								
			larval rearing facilities to be established in other parts of the country in the future. The project envisions to establish sufficient supply of crab seeds								
		_	to encourage Scylla divacea aquaculture in more areas and as a strategy to mitigate the impact of climate								
	Technology	economic growth		r-univation cone (1) publication or presentation in peer-reviewed scientific conference and/or conference proceedingsPatent:N/AProduct:Evaluated method on application of HXRF for Heavy Metal screening for Milkish	Development Institute (DOST-ITDI)	scale aquaculture sector, local barangays, and	01-Jan-23	31-Dec-24	UNGUING	4,999,239	2,029,674.32
				Validate method on application of XRF for Heavy Metal screening for MilkfishPeople:At least Two (2) staff trained on XRFPlace:Partnership with local		everyday Filipino fish consumers.					
			Research interest in mercury poisoning and other heavy metal contamination has recently risen due to their potential health implications. Heavy metal poisoning	aquaculturistPolicy:Advocate/propose safer milkfish sourcing based on the results of the study.							
			or chronic in nature, such that constant exposure over long periods of time results in accumulation which leads to a multitude of differenttime!								
			conditions. Such medical conditions may at times be fatal. Due to								
			the greater than average amount of heavy metals present in the environment of certain localities in the Philippines, there is a need to survey the heavy metal content in common food								
			sources, specifically fishes.								
			X-ray fluorescence (XRF) spectrometry has become one of the most effective methods for determining the								
			elemental composition of samples because of its non-destructive, fast, and continuous measurements. This study aims to use								
			a benchtop x-ray fluorescence (BXRF) analyzer to screen Philippine milkfish (Chanos chanos) for mercury (Hg),								
			arsenic (As) content, and other toxic heavy metals. In effect, this would lead to generation of a heavy metal profile of bibliopies mitchic behavior from parious profiles of bibliopies mitchic behavior of								
			In addition, the study contributes to the method development, optimization, and validation of detecting heavy metals in mikitish using the handheld x-ray								
			fluorescence (HXRF) available in ADMATEL Chemical and Metallurgical Laboratory, thus enhancing the capability of ADMATEL for heavy metals								
			analysis. Efficiency between the BXRF and HXRF in heavy metal content determination in terms of the limit of detection, precision, and accuracy will also a summarial the improvement budy.								
			www.wad.oc.compariod.ii1.005.0000001.56000.								
	Development of Baculovirus Expression Vector System (BEVS)-based subunit protein veccine	Integrity of the environment and climate change adaptation and	Tilapia Lake Virus (TiLV) has been reported to infect wild tilapia Sarotherodon galilaeus, farmed tilapia Oreochromis niloticus and commercial hybrid tilapia (O. niloticus X O. aureus) (Bacharach et al., 2016;	Publication: 1 ISI-indexed publicationPatent: 1 Oral subunit protein fish vaccine against TiLVProduct: 1 Potential vaccine candidates against TiLV	National Fisheries Research and Development Institute (DA-NFRDI)	Local fisherfolks, tilapia farm owners, tilania	01-Oct-22	31-Mar-25	ONGOING	10,471,390	988,492.31
	against Tilapia Lake Virus	mitigation	Eyngor et al., 2014; Ferguson et al., 2014). In 2018, Abdullah and co-workers have also detected TiLV in wild river carp (Barbonymus schwanenfieldii) in Malaysia (Abdullah et al., 2018). Zebrafish (Danio rerio) una cles detected to be support to be sup	1 Oral subunit protein fish vaccine against TiLVPeople: 5 Training of project staff, students (MS, PhD), and other beneficiaries to be proficient to perform recombinant protein		industry Fish Health management sector (BEAR Fish Health					
			(Rakus et al., 2020). To date, only the mentioned species of fishes were found to suby this/pathtingen thus (Infection but it is possible that other species will be finand to be susceptible to TLV infection but it is possible that other species will be finand to be susceptible when enidemictative studies	5 Training of project staff, students (MS, PhD) and other beneficiaries to be proficient on berforming vaccine challenges and vaccine administrationPlace: 1 Coordination and		Management and Quality Assurance Laboratory, BEAR Regional Offices/Regional Fish Haalth					
			on its susceptible hosts would be intensified. The emergence of TiLV is the first ever reported infectious disease in epidemic proportion in tilapia aquaculture which threatens the global tilapia industry. The risk	consultation meeting with Cooperating agencies (Chung Yuan Christian University)Policy: It is expected that through this project, both National Fisheries Research and Development		Laboratories)					
			is further exacerbated by irresponsible trade in live marine and fresh water animals and disregard to biosecurity. The very high mortality (20-90%) of tilapia caused by TiLV infection may also affect food	Institute, Department of Agriculture, Philippines and Chung Yuan Christian University, Taiwan, will come up with policy to share more resources, expertise, and best practices in		stakeholders					
			security and nutrition since tilapia serves as a cheap protein source especially in the developing parts of the world. The threat of TiLV to global tilapia industry and to ecology, economy, food security, and putrition is developed to a service of the control process and the service the service of the service the service of the serv	aquaculture/agriculture biotechnology. This project may also be a basis for the institutionalization and establishment of Vaccine Research Institute in the Philippines and award wards developed economic and the state of the		Individuals in the field of virology, aquatic pathology,					
			farmed tilapia caused by TLV is warranted through the development of prophylactic vaccine, diagnostics, and antivitals.	animal use but also for human use to prevent human and animal disease to explode into another pandemic		TISN production, molecular diagnostics, etc.					
				0							
•	•			 Page 20 of 70 							

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31.	Total Project Cost	2024 PCAARRD GIA
	Development of locally-available essential oil as a	Powerty reduction and	As a vital support to the economic development of the country, the needs	Publication: 2 Scientific paper publicationsPatent: 1 patent applicationProduct: 1 Product	I Iniversity of the Philippines Visavas		01-Mar-23	28-Feb-25	2024'	4 083 033	2 286 516 19
	growth-promoting and anti-microbial feed additive for saline tolerant tilapia Oreochromis niloticus	empowerment of the poor and vulnerable	of the Tlapia familing industry should be continuously addressed to secure its profiability and sustainability. One of the ways to improve table aquaculture production is to improve the quality of feeds. Addition of small closes of antibiotics in the finit feed has been practical promoting growth and provent infectious disease outcreak in find uture. However, the negative impact of antibidic use animal culture involvers with the reacting one and information and anomaliation.	related to essential cil-based feed additive/People: support 2 undergraduate and 2 MS students/Dao: L'industry and 2 academic partner Industry Partner: Rouss Cily Aquicaulture Association Academic PartnerA Liberardi / A denture 3 Tahi Lim Memorial Campus: Problacion, Tibian, Antinue	(UPV)	Accredited Tilapia breeders Accredited Tilapia growers Feed Companies Scientific community				.,,	
			of readue in the environment and fish flesh which could harm the consumers, has resulted in the search for more asstanable and environment livendly materials as leed additive. Additive obtained naturally from plants such as essential oils have gained great interest as these compounds have been established to have low toxicity. beencicable biocodie components and are	Capit State University-Dayao Satelite College, Fisheries Department/Roxas Cky, CapitPolicy: Policy related to the regulation of indiscriminate use ol/k, antibiotics as antimicrobial growth promoters in tilapia aquaculture through environment-friendly alternatives.							
			economically viable. Essential oils entracted from indigenous plant species such as ginger, gartic, lemon grass and bamboo leaves are now available in the market and can be utilized in variety of ways. The proposed study will altempt to explore the potential of these locally available essential oils as growth promoter and antibacterial agent in thispia								
			aquasitute: Inte oucome et the proposed project wij provide al in developing efficient management strategies for devase control and growth promotion, which will subsequently contribute to achieving sustainability in tilapia aquaculture.								
	Development of Natural Hatcheries for Green Mussel, Perna viridis, in Tagabuli Bay, Davao del Sur: A Model for Sustainable Production of Green Mussel	Poverty reduction and empowerment of the poor and vulnerable	Anboy, Anboy, Anboy, Careon mussels are an excellent source of cheap but high-quality protein and unsaturated faity axids. They are also very suitable for aquaculture due to their ability to easily adapt to different cultivation methods and fuctuating environmental conditions. The growth of this industry is however, hindreded by challenges posed by inadequate supply of quality seedstock/spats. This problem was further paramethed by the discussifient of due 200 mussel famore in 2022 to	6Ps	Mindanao State University Naawan (MSU-Naawan)	Bureau of Fisheries and Aquatic Resources (BFAR)-Region XI and Provincial Fisheries Office - Digos City Davao del Sur (Assist in the survey and site selection and implementation)	01-Oct-24	30-Sep-26	ONGOING	4,999,304	1,702,107.00
			make way for the Navotas' Coastal Bay Reclamation Project. These traditional culture sites account for a considerable buik of green mussel production both for consumptions as well as broodstock source &hitogy. There is therefore, a pressing need to identify new sites for green mussel productions and enhance the natural sectible in those areas &hitogy, &hitogy, &hitogy, Mindanao is	Year 1		Municipal Agriculturist Office, Municipality of Sta Cruz, Davao del Sur (Assist in the survey and site selection, assist in the acquisition of					
			a potential area to the expansion of green musical culture due to its weather, location (less potence byphonos) and many sheltered coves and bays that are ideal production sites.&htsp By happenstance, the LGU of SLC. Cure, Davao de Sur sought the help of MSU Naawan for the development of green musical culture to provide an antibanatia. Building conceptibility to correlat composition the heady reliant on	Year Z Qty		implementation)					
			the bangus industry which is facing decline of production due to the proliferation of unregulated fish cages and environmental degradation.	Publications							
				2 paper presentation							
	T-s	Downth conduction and	The ones reveal production in the country is declarion. Histolichtion the uncert need to identify	2 unary portinal aduces to sourcesource 2 paper presentiation At least one (1) IEC material (brochure/ pamphlet) on the results of the project.	Mindana Chita Universita Manusa	Lannas Sanahalla Davionius (Abura) Franco (The	01.0+01	20.5 20		4 000 000	4 704 700 00
	Taguines Lagoon, Camiguin: A strategy for sustainable seedstock production for expansion of the mussel industry in Northern Mindanao	empowerment of the poor and vulnerable	And given masse for musied culture and explore potential sources of healthy and clean seedspokes for expansion. One such promising area sourcing seedstocks for the expansion of mussel culture in Northern Mindanao is Taguines Lagoon in Camiguin. The lagoon has a naturally occurring mussel population and serves as the primary source of green mussels in Region X. Recent survey have	6Ps	(MSU-Naawan)	Lagoons Seasnells Froduction (wasser Farmere ~s Association) €" primary collaborators in Camiguin	01-00-24	30-3ep-20	ONGOING	4,999,928	1,701,732.00
			revealed the absence of plankton known to case Harmful Algal Biooms (HABs), making Taguines Lagoon an ideal seedbed area. However, the current farming practices in Taguines Lagoon require modification and improvement to enhance production. The Lagoon Seashells Production Association, a cooperative that produces more museski, has memuted technical associations from MSI at Nawano to enhance their	Year 1		LGU of Camiguin €" collaborator in the trial sites and primary adopter of the project					
			spat collection and grownout technology. Therefore, this project aims to provide technical assistance to the association, addressing their challenges by introducing efficient spat collection technology and improving grow-out culture methods. Additionally, the project aims to identify potential expansion sites in the region through a preliminary in situ culture, enhancing mussed production in Northern Mindanao.	Year 2		LGU (e.g. Mercelagos, and Lanao) €" collaborators in the trial sites					
			Furthermore, the project will assess social factors that influence the acceptability of new technology within the community. This ensures that the technology aligns with the preferences and needs of the local community, thereby ensuring its long-term success.	Qty							
				Publications							
				1 draft journal publication 1 paper presentation							
	Enhancing the Quality of Measurement of Local Testing Laboratories in the Philippines for the	Poverty reduction and empowerment of the poor and	In this project, the performance of local testing laboratories in		DOST-Industrial Technology	Local testing laboratories are the primary	01-Jan-23	31-Dec-24	ONGOING	4,999,987	1,981,754.58
	Analysis of Toxic Elements in Mussels through Proficiency Testing Scheme	vulnerable	determination of toxic elements in musesles will be assessed through proficiency testing scheme in accordance with the requirements of ISO (TrAX). Proficiency test items will be produced from musel matrix in accordance to ISO Guide 35 standard. The assigned value of the proficiency test item will be determined	6Ps		as support will be given through local PT provision. These include DOST regional laboratories, Bureau of Fisheries and					
			using high order method and gravimetric sample preparation.	Year 1		Aquatic Resources (BFAR), National Food Authority-Food Development Center, private testing laboratories					
				Year 2		and other ONELAB members which are capable of testing toxic elements in mussels.					
				Publication							
				One (1) paper submitted to scientific forum							
				Product							
				(3) validated methods: GF-AAS for Pb and Cd, HVG-AAS for As, and DMA for Hg in mussels							
	Establishment of Biological Water Quality Index Based on Diatoms for Fishery Production and Environmental Conservation in Batanoas and	Rapid, inclusive and sustained economic growth	The Philippines has a vast surface of freshvater resources. They provide a large percentage of its population. However, the fisheries productivity of freshvater bodies in some	Publication: Checklist of Diatoms of Marikina River and Batangas Rivers (Pansipit and Palanas)Patent: NAPPoduct: Deposition of type diatom specimens and material references on Diatoms in the herbanium,Å	University of the Philippines Los Baños (UPLB)	Researchers and Professors in Various Research and Academic Institutions;	01-Jan-23	31-Dec-24	UNGOING	4,954,694	2,145,061.03
	Marikina Rivers, Philippines		parts or use country has decined in recent years as a result of deteriorating water quality and degradation of freshwater ecosystems. To date, there are no existing guidelines and integrative indices to measure river health tailored for the Delivious and there are also carse in and/orm to the measurement in the tailored of the second secon	Essussements of a Lustom Heroanum at the Museum of Natural History, UPLB; Publication of a website on the identification up to species level of common diatoms in Marikina River and Batangas Rivers (Pansipit and Palanas) and their diversity index in malation to remea shall for advort.		Students both in Secondary and Tertiary Level of Education;					
			pau use rimepueds and unere are also gaps in performing river assessment in the country (Martinez, 2016). The establishment of Water Quality Management Areas (WQMM) by DENR-EMB includes consideration of water quality problems, content/or encoursed of water control from and memory term for and of the second secon	Treasure to source ablock factors. A People: Seminars: Importance of the Diversity of the Diatoms on the Sustainability of Marikina and Batangas Rivers (Panajai) and Palanas), with as many as 30 participants, including factorizing and the professore according according to the distance of the second sec		Regional and National Offices of the Bureau of Fisheries and the Department of Environment and Natural					
			water quality. However, there are means of quickly assessing water quality of rivers to present their deterioration. Hence, the need to develop an index of water quality using datams tailored for the Philippine condition. Anbas:	Bureau of Fisheries and Aquatic Resources Region 4A. Department of Environment and Natural Resources (MOA)Policy: Policy recommendation for the Sustainability of Marinian River and Batanoas Rivers (Pankini and		People around the river, like the fisherfolks, farmers, etc.					
				Palanas) as Possible sources of Supply of Drinking Water and/or as Fish Sanctuary; Policy recommendation on the use of a standard measurement of water quality of Philippine rivers using diatoms as index of water quality.							
				1		1			1		

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
	Field Tealing and performance evolution of earlier toternet Philipping Talgie statin, ustured in different geographical brackish water ecceyetems	Integrity of the environment and climate change adaptation and mitigation	The Philippine Thippin any acquires industry has a significant contribution to the national exonomy. Targina is the second target aquasulture-produced fish species in the Philippine with a logitorical cond 211, there for an suited as Philip 24.8. Any accurate the philippine set in a logitory of the philippine set in a logitory of the an arrange annual production rate of 0.80% from 2012-2021. This defining photoletic the effort doubt a shift-bill for completel photoletic to phyloride the photoletic the set of the philippine set of	Ner 1-Ruppie and Services. This and methor 3-8 f light callupte behaviors and 2 students Russ and Partnership. MOU or collaboration with 11 silpsing grover and 2 partnership. MOU or collaboration is 100 methods. Safet services have a student set of the student set of the student silpsi callupte in behaviors cages and 1 protocol for saline silpsi callupte in behaviors provide set of a diverses. Then and methor 3-8 stilpsi silpsi callupte in behaviors provide set of a diverses. Then and methor 3-8 stilpsi silpsi callupte in behaviors provide set of a diverses. Then and methor 3-8 stilpsi silpsi callupte in behaviors provide set of a diverses. Then and methor 3-8 stilpsi silpsi callupte in behaviors provide set of a diverses. Then and methor 3-8 stilpsi silpsi callupte in behaviors the state of the state	University of the Philippines Visayas	Titegia habdhwny operators, tilapia growens, coastal, satuary and rine, dependent communities.	01-Dec-22	30-Nov-24	2024 COMPLETED	4,999,179	1,103,596,99
	Field Testing df Azolla filosoldee and Amaranthus approus "Kolla Carl Meal for Improved Tilapia in Pend Culture	Inlegity of the environment and climate change adaptation and mitigation	Tapos the mod preferred adhered fait speces in morphrane in aquacitude because they are highly restarted to disease, anbibit registry and the faith of the speces of the second	Pacietations 2 GC namenals (kinchune)pamphilot) and 1 scientific paper Product Two Atabia Constraints (kinchune)pamphilot) People and Davicesa 2000 Chine (Kinchune) 2000 Chine	laabela State University (ISU)	The target beneficiaries of the research will be as follows: Aquaculture industry "fish farmers and fish feed developera/industries may use the results of this project for commercial production of tilapia. Researchers about the potentials of plant-based protein det in tilapia. This might also provide an avenue on the utilization of Azolia and ASLM as feed for tilapia aquaculture. Suddents and professors will acquire new knowledge on the use of Azolia and ASLM as feed for tilapia aquaculture. Government agencies/policy makers "the results of this study can be used by the Azolia and ASLM as feed for tilapia aquaculture.	01-Mar-23	31-Dec-24	ONGOING	4,998,750	1,567,223,45
	Field testing of hatchery and nursery production and development of broodstock transport protocols for the native catfish Clarias macrocephalus	Repid. Inclusive and sustained economic growth	The decline is the abundance of native catiful, Classis mecoscipatian, in the Policypies is a case for concern, with the mecoscipatian, in the Policypies is a case for concern, with the mecoscipatian, in the Policypies is a case for concern, with the Class et al., 2010), The larger and more popular Classis batachus and C. Class et al., 2010, The larger and more popular Classis batachus and C. Segments and policypies of the Classical Classical Classical Classical and hybrids between C. macroscipatian and C. garapping in a more and applied batachus coscients, microbiocution efforts are excale (Lyon et al., 2010), and the selection and conditioning of an appropriate source at al., 2012, and the selection and conditioning of an appropriate source at al., 2012, and the selection and conditioning of an appropriate source at al., 2012, and the selection and conditioning of an appropriate source at al., 2012, and the selection and conditioning of an appropriate source at al., 2012, and the selection and conditioning of an appropriate source and point of declinatian for developing the paperios an appropriate source and explored of declination for developing the paperios and appropriate sourceshift) explored and hybry valued food thin A Southeast Asia, well as in the field i.e., freshwater ponds.	Publication: bail of 3 journal publicationsPatient: 1 patient applicationProduct: Haldhery, marring and marring and married patient applications (haldhery, haldhery,	University of the Philippines Visayes (UPV)	Freshwater fish farmers, aquaculture researchers, feed manufacturers	01-Oct-23	31-Mar-25	ONGOING	4,986,924	3.065.845.00
	Gene-based Identification of Growth Promoting Feed Additives for Milkflish Aquaculture	Rapd, inclusive and sustained economic growth	Milkith aquaallute is the larged producer and contributed or allutes for fails the Philippines. Neaver, the aurent promoting of a philippines. Neaver, the aurent promoting of a philippines. Neaver, the aurent promoting of the philippines (see the philippines (see the philippines of private) is the societable are does logically of an end of private site shores and and the papely of unserge-produced mildide is a constaint in the production. The influent gravith performance in the nursery and an end of the philippines of the philippines of the philippines aquaculture. The sustainability and excountie usefully of mildide aquaculture. The sustainability and excounties usefully of mildide aquaculture in the productive requires bigger philippines (the philippines) and the philippines of the philippines provide (the attain the fraid are are executed by the philippines produced to a task the fraid are are executed by the philippine produced by the sustainability and excounter useful to a task the outder produced by the sustainability and excounter and the grave-tage philippines produced by the sustainability and excounter and the produced phase. The proposal hierded to produce the gravesh and the data regardless of useful to philippines the gravesh and the philippines and and and the gravest philippines and and and the produced phase. The proposal hierded to accounter and the gravest philippines and and the produced phase. The proposal hierded to accorderate the gravesh of useful to the advantise to accounter to the advantery of the sustain the state and accounter and accounter to the sustain the state accounter advanter and accounter and accounter acco	Robitation: 2 Dark scientific action publication Patent: 1 Patent for growth promoting address using hydrograft petition. I Patent for growth promoting address from short- ter fam. I and a science of the science of the period action of the patient and 2 undergated induction patient of the hydrograft petition. I short-science fatty acid provides. I MOA with academic (CapSU, MSU, UA) 1 MOA with Private Mildeh Operator Policy NA	University of the Philippines Visayas	1. Milkinh growers and nursery operators 2.Feed manufacturing companies 3.Government extension officers.	01-Oct-24	30-Sep-26	ONGOING	5,000,000	2,661,620.00
	Gut metagenomics and transcriptomics for rapid development of angle cell protein (CP) alternatives to fish meal and probiotics for Chanos chanos	Integrity of the environment and climate change adaptation and mitigation	Production of equipticed is predicted to increase from 40 relinitor have in 2015 60 r.1 million from in 2025 (bit set al., 2015). This supply of the much the primary accurate of potchin in flexib, unlinearisingly immediate new locations. This project primary is a straight of the primary is a alternative for equipted from microbial biotrams and have the periods with a genomics. See all approximations proteins (2007) from microbial biotrams are historine primary and the flexib in the flexib and the primary of the period of the period approximation of the period of the period approximation of the period the period of the period	Publication Al text 3 journal publications Patient A least a power publications patient A least a power publication of the field development probace/Poduct A least one patient A least a power publication of the probability of probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probabili	De La Salle University (DLSU)	Fish farmers Aqueoliture industry Feed development industries Down stream/ value chain players to the industry	01-Aug-23	31-Jul-26	ONGOING	14,341,580	1,904,932.00

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
	Improvement of Milkish larval rearing and nursery culture through Gut Metagenome, transcriptome analysis and gut microbial community manipulations in the standard state of the state of the state of the state microbial community manipulations (Fishmail Annino Acid Transporters as indicators of Stimulatory and hhibitory Effects of Dietary Proteins (Fishmail, Soybeam Meal and Copra Meal) on Annino Acid Absorption Talgial (C. nitocus)	Integrity of the environment and climate change adaptation and mitigation	Middle to an experiant food convencion in the Physpansa and is considered as its main piller of the physical start is a second or the second or the physical start is a second or the second or the physical start is a second or the second or the physical start is a second or the s	Pediatation Pediatation 24 Journal Arbite 1 Portocol manual on basic metagenomic and transcriptome analysis for fish larvae Pateri 1 protocol for militich larvae put metagenomic analysis 1 protocol for militich larvae transcriptome analysis 1 protocol for probotic application on militich hardney and numery operation Product 14 least 2 protocols products 1 process of regroning militich hatchery and numery operation Product 14 least 2 protocols products 1 process of regroning militich hatchery and numery productivity by application of numeral manipulation techniques People Ar least 1 products tablent Pacifylane 1 Biological markers using gene and expression patterns 2 Accommended least ratio basic on gene expression 1 Biological markers using gene and expression patterns 2 Accommended least ratio basic of gene expression 4 Recommendation for development of personalized and functional freds.	University of the Philippines Visayas (UPV) University of the Philippines Diliman (UPD)	Hatchery operators, nursery grwoers, milkfish growers. Knowledge acquired from this project will provide new insights on the effect of feed ingredients on fish that is important in the development of feed and improvement of ded quality. Outputs of this project	01-Jul-22 01-Jul-22	30-Jun-25 30-Sep-24	2024 ONGOING COMPLETED	21,035,101 9,400,941	3,597,700.37 504,922.59
			we provod penetra to consumera, emispiraneura, tarmes, ano tre entre aquacutura inouzoy.	Debuga	This waits of the Deliverian of the Deliver	Course served a comparations in assessmine. Therefore, this project will primarily benefit the aquacuture feed industry farmers, aquacuture sector. In addition, the academe (students and faculty researchers) and research institutes will also benefit from this project through thesis/dissertation and collaborations.	04 14 24	20 6.0 25	ancoinc	5 000 000	2 200 020 00
	Sustainable Development and Advancement of Aquaculture Nationwide	Pape, inclusive and sustained economic growth	The datas of aquicaluture in Region IVA with Frehpond Learning Agreements (FLA) using (GRAmed Seming methods). It is expected that the project to can be used as the beneficient of backford of aquicables questions that and be used as the provide the seminant of aquicables areas in selected regions in the Philippines.	Foundation Found Foundation Found Foundation Found Found Foundation Found Found Foundation Found	(UVPL5)	Br Ar, DANIFRUI, Aquabulita e secia	01-30-24	30-301-23		5,000,000	3,390,930.00
	Mannan Oligosaccharides (MOS) Prebiotic Feed Ingradient for Aquateeds From Bioprocessed Coconut Residue	Integrity of the environment and climate change adaptation and mitigation	I Almann dispasacharde (MOS) is the most used protocols in aquaculture. It has been shown in watows tagging, and common can MOS is produced from the hydrograp channes, a polyasachardia commonly found in yeast and plant cell watis. Coconst residue or exapail is the hy-protocil after the extinction of the most involvement of the cell and the second	Publication: All tead 2 publications in BIStoppus Journal and a publication of the predicts (Spromessing Council Institute (CD) (Red Pupelet Inpublication/Postch Con (L)) established process of producing Marman dispacecharities (MOS) predicts (Ference Pupelet product). (Journal Most Public Pupelet Publication Instrumentary of council results) and (Journal Most Pupelet Publication Publicatione Pub	University of the Philippines Los Baños (UPLB)	Local farmers engaged in aquaculture farming LOUs and occoperatives Food industry Academe	01-Dec-22	28-Feb-25	ONGOING	4,999,298	746,015.50
	Method Optimization of Digestion and Extraction of Microplastics in Mikfish (Chanos chanos)	Rapid, inclusive and sustained economic growth	Research interest in microphatics has iden due to the occurrence and potential health indepleciations. However, the DH-Rappice, point of the sen microsoft and the sense of the DH-Rappice, point of the sense muscash in the commonly consumed setalocits. There is still a reself or more research which and combined lutter durationality of the igidable pollutant, and possibly address solutions innigators. Hence, this research proposal initialities and any accession term of the setal setal and the setal constraints of the igidable pollutant, and possibly address solutions innigators. Hence, this research proposal initialities, and you consider the setal setal setal setal data that of destification and commission of the setal setal data that considerative setal between the two-rule heads the setal data that and provide under the setal setal setal setal setal setal setal data that and possible setal setal and address that the setal setal setal setal setal setal setal setal is find and and possible sources and distribution of microphatics — In and addresset was babilities.	PAbitation: "One (1) publication or generatization is escattific foral conference (Year 27/Patent: TW/Pohenic T: Optimizer providem on microplataci tadiatin from militah 27. Marching (1) particular and baselia water militah (Year 10 Year 27/People 27. Alengshi (c) partitionation of Mongolatica analysis (Year 10 Year 27) 2. A least one (1) MS or initiated field graduate (Year 110 Year 27/Place: "NW/Pelocy "NA"	DOST-Industrial Technology Development Institute (DOST-ITDI)	Policy makers Small-scale aquaculture sector Local barangays Everyday Filipino fish consumers	01-Jan-23	31-Dec-24	ONGOING	3,223,955	1,775,825.74
	M-Eşe Fry Counter: An Innovative Machine Vision- based Precision Fry Counting Solution to Streamline Milidish Fry Distribution	Rapid, inclusive and sustained economic growth	Philippines ⁴ ", tering the 2nd top producing country of militial worklede has produced 315 housand found in militian 1420. This wait amount of producions are equivalent to maske amount of militian hy demand. Low this was 23 bill on se example provided by the event of markets hitting produce and example, to shirt also access 23 bill on se example produced by the call balance militian hy attaches are conserved by the produced by the produced by the produce of existing 35 militian hatcheries, 20 of which are government owned and 15 are private. These local tracheries are conserved, private and the private of the private of the private Militian hatcheries, 20 of which are government owned and 15 are private. These local tracheries are conserved, private and the private private the private of the operation. Philippines having a 2.5 billion militian hat hybrine, build who unline ourse manual methods is to portaolen. Philippines having a 2.5 billion militian hybrines and technology that the Philippine Militian history callered by a 2.5 billion militian hybrines and technology that the Philippine Militian history callered by the With that add, the proposed project amis to provide new technology to which history callered by the processes.	Publication: One (1) extending caper for the design and development of the system; One (1) eveloped or cardions and maritmenon manual; One (1) eveloped or cardions and maritmenon manual; One (1) eveloped or cardion black: One (1) of UMI) Acade regularizations for the expenditations of the system place. Can (1) UMI) Acade regularizations for the operate and maritain the systemPlace. One (1) MOA with DANFRD, BFAR-MFDC, and UPVORe (1) MOA with Private Hatchery OperatorPolicy: None.	DOST-Metals Industry Research and Development Center (DOST-MIRDC)	Aquaculture industry in the Philippines; Milkfah hatchery operators and grow out farmers; System integrators and fabricator in the Metals, Engineering and Allied Industry involved in aquaculture.	01-Aug-24	31-Jan-26	ONGOING	5,000,000	3,267,168.60
	Nelecular Detection of Pathogens in Mangrove Crab: A Step Towards Forurdn a Sustainable Mangrove Crab Aquaculture Industry	Repti, inclusive and sustained economic growth	Mary Figure fammes in costal areas much there intoy is main paragrose cab. Sorial sp. The numery and grow out operations produces and the sorial sorial sorial sorial sorial sorial sorial sorial produces. We have the sorial of the major produces of the rapid development is the colume manager cab, cambidant and the sorial sorial sorial during the culture operations of manager cab, this grad during the culture operations of manager cab, this grad during the culture operations of manager cab, this grad manager cab, cambidant is contention (2004) as a lead y as expected but the vial readin to cateling any interventions in the management during cluture operations of manager cab sub grad potential pathogens in the host before disease episodes are mainteside.	VEAR 1 VEAR 2 Publications One (1) ubalishable research article for submission to reputable peer-reviewed scientific journal One (1) ubalishable research article for submission to reputable peer-reviewed scientific journal Potential/Intellectual Property A and then (2) conventional PCR protocols on moleculaar detection of common and emerging pathogens from	University of the Philippines Viseyas (UPV)	Mangrove crab grow-out and hatchery operators $A_d^- \ll a$ Awareness of sending samples to the laboratories for routine diagnosis as part of the early intervention plan could mitigate future losses due to mortally by providing decisions hould the pathogen of a batty many provove crab for consuming will be assured of a healthy many provove crab for consumption Aquaculture Researchers $A_d^- \ll a$. This underscores the importance of early decisions of the diagnost cardial or provide and the distribution of the diagnost cardial or provide the assured of a healthy many consumption Aquaculture Researchers $A_d^- \ll a$. The underscores the importance of early decision of the diagnost cardiad on provide and the anaryove crab farmers on the importance of the health management approaches in mangrove crab aquaculture. Area for those who are leaching Diseases of Argue Arunisa and Health Laboratory activities the various techniques on molecular diagnostics and to rather hands on disease dimensions cards on favores and health process and the future searches a hands on activities the various techniques on molecular diagnostics and to rather bands. Policy and the future of the disease diagnostics and to rather bands on activities the various techniques on molecular diagnostics and to cardiad on directions of infectious techniques on future to the card on the target of the disease diagnostics and to cards of infectious techniques on future to the card of the disease diagnostics.	01-Aug-23	31-Jan-25	ONGOING	4,999,981	3,915,519.30
	Molecular Marker Assisted YY Male Tilapia Production	Poverty reduction and empowerment of the poor and vulnerable	This research would by to papply the use of sex specific marker as a detection marker for the effective devolpment of a VY make satile toterant lague. To our broukedge development of a VY make satile toterant lague to Philippines that could lead in the development of this technology that could be vital for the efficient aquaculture of satiler toterant of this technology that could be vital for the efficient aquaculture of satiler toterant of this technology that could be vital for the efficient aquaculture of satiler toterant make satiles userstability of anise technology and increase the acceptability and marketability of anise technology and increase the acceptability and marketability of anise technology and increase the acceptability and security and will contribute toward SDG2 Zero Hunger.	Year 1: Houdust: YY male and SR YY semisal same listerina failuga population produced/heaple: at least two (2) undergraduate and/or gnaluate students supported/Hace one (1) research status two (2) publications in regulation (5) Journals Palent: At least nor (1) publications in regulation (5) Journals Palent: At least nor (1) patient of the producedus applied Pacedus: all natural XY male andine listerari libra population through YY male technology produced People: at least two (2) granuphate and explositions functions (2) patients at the Philippine Genome Center Visayas in Magao, Isolo Page 22 of 70 Total Status (2) Total	University of the Philippines Visayas (UPV)	Broodstock growers, Hatcheries, Consumers, Tilapia industry, and Researchers	01-Mar-23	28-Feb-25	ONGOING	4,953,073	1,935,763.11

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
	Morpho-functional traits and eDNA metabarcoding of freshwater fishes and invertebrate communities in Panay Island	Rapid, inclusive and sustained economic growth	The proposed project will provide relevant ecological information on the freshwater bodies of Panay Island that will help in managing and conserving these important inland waters. It will also help in monitoring the status of this water bodies and determine the impact of recent anthropogenic activities in the different inland water bodies of Panay Island (especially aquaculture and the construction of dams	Publication: Åç, ¬≤ Publication of at least two scientific articles in Web of Science- or Scopus- indexed journalsPatent: Åç, ¬≤ Panay Freshwater DNA Reference Library Åç, ¬≤ Panay Freshwater Biodhensiy Reference LibraryProduct: Åç, ¬ Å reference/protocol manual covering the protocols employed for biological monitoring of inland water bodies Åç, ¬4	University of the Philippines Visayas (UPV)	The project aims to help local government units, researchers, students, and other stakeholders in learning about better management and conservation	01-May-24	30-Apr-26	2024' ONGOING	5,000,000	3,394,860.00
			and reservors). The will help in pupily and efficiently assessing the water quality of acco-economic properties in the service of the service	Vaucher specimens to be depotied in natural history museum=People. K, et y Tinning and mentring of all earlier the students (in or larger graduate and two present) and kon senset management, and northoring Place. Memorandum of kymemet (IUOA) analor Memorandum of Understanding MOUJ among the complementing agrees and not apresent to LGUs and Provincial Governments Place, "Submission of at least one policy brief to LGUs and Provincial Governments		of watersheds through integrated monitoring and assessment of terrestrial and aquatic biodiversity.					
	Muss Eards for Eroshwater and Salina Tilania authro	Integrity of the environment and	The Philippine aquaculture is expanding	Publications	University of the Philippines Visaure	Finhorfolk/traders/	01 101 22	20. lup 25	ONGOING	4 000 007	1 104 000 20
	Myco Feeds for Freshwater and Saline Tilapia culture	Integrity of the environment and climate change adaptation and mitigation	The Philippine aquaculars is expending the philippine aquaculars is expending and a philippine aquacular is a philippine of the philippine of the mature philippine aquaculars. The philippine of the philippine of the comparison of the philippine of	Publications Publications House the Circle Analysis of the second second second second second Micro Second	University of the Philippines Visayes	Fisherfolk/traders/ feed industry:reachters/scientists, the general public and science in general	01-Jul-23	30-Jun-25	ONGOING	4,999,997	1.194,999.29
				human food and not as feed to animals. 3 Develop an approximation and interest to further discover, utilize and promote theuseof sustainable feed ingredients for aquaculture.							
	Optimization of temperature for Scylla serrata brootstock in a reciculating system with a polychaete assisted biofilter	Integrity of the environment and cilmate change adaptation and mitigation	The mangrove cash, Soylia sensits is highly valued controlly in shich used a depart matter, the thorem, cull recently, the sourced in shich has all export matters. However, cull recently, the fold of the sensitive sensitive sensitive sensitive sensitive sensitive stocking provids. In the Philippings, the mass seed production of margrove and has been done sensitive that any done sensitive sensitive stocks. The sensitive sensitive sensitive sensitive sensitive sensitive sensitive sensitive sensitive sensitive sensitive sensitive quality of locations. In the constant turk and quality which may be due to the quality of locations in the constant turk and quality which may be due to the associative system with a polyhothese assisted sensitive sensitive sensitive associative system with a polyhothese assisted send bolfs. Specifically, the priorit area to compare avoid and the sensitive sensitive sensitive sensitive sensitive sensitive associative application and anothese in the sensitive sensitive sensitive associative application and anothese sensitive sensitive sensitive and particle sensitive sensitive sensitive sensitive sensitive sensitive sensitive and particle sensitive se	PAbilation: Verr 1: Taricie authinitie for publication in peer-velevel indexed journals w 2: Taricia sublication for publication is enviewed indexed journals per of the bolfler Product. 1: Technology on the use of MSA with polychaetes as part of the bolfler for broadcast mathematican 2: Quality marginor and is roadcast, and is added (nabilet) 3: Quality marginor and is roadcast, and is added (nabilet) 3: Davids and and a sublication of the set of MSA with polychaetes as part of the bolfler for broadcast, and is added (nabilet) 3: Davids and and a SUB david familed/Pisce 4 MOAe with MSI-Naawan, Kyushu Unwerkly, LGL-Maamagan, and RDMPisce 4 MOAe with MSI-Naawan, Kyushu	Mindanao State University - Bigan Institute of Technology (MSU-IIT)	This project will be beneficial to the following: Aquaculture practitioners (hatchery operators, farmers, etc) Academe IncloScientistic Covernment agencies Businessmen and potential investors	01-Jan-23	31-Dec-24	ONGOING	4,999,852	1,646,676.00
	PECM in Aquaculture Diets for Gut Health Modulation	Integrity of the environment and climate change adaptation and mitigation	Feel state and field commons of fictions of disturbed species is an essential parameter because fired inputs account for SPTMs of production costs in the aquicablue including. The productively of the state of aquicablue possible and annu the special special costs of the costs of aqui microbiane. Interdiant including and production of attamina and beneficial methodoles. The special special costs of attamina and special costs of the special special special special special special special methodoles. The special special special special special special special methodoles. The special special special special special methodoles and the special special special special special methodoles. The special special special special special special methodoles and the biological interview. The special special production, Non-targeted multi-motion special methodoles and special	Palotator AI tend 2 publications in 60150cpcs Journal A Heart 1 page presentations in conferences/articlent.NearPhoop: Mentrand I said 2 Tensorchen, 2 undergraduate studentpRuse, MOA with proble maguaciture farming in aquaciture farming	University of the Philippines Los Baños (UPLB)	Local farmers engaged in aquaculture farming Cocont farmers and stakeholders LOUs and cooperatives Feed manufacturers and compounders Food industy Academe	01-Dec-22	31-May-25	ONGOING	4,999,298	687,940.50
	Pilot testing of the Integrated Multi-Frophic Aquaculture (MLA) Technology in Prod Systems to Enhance Penaeus monodon Production in Southern Philippines	Ripidi (inclusive and sustained economic growth	An integrand Multi-topic An unique Multi-topic Anaudutus (MIX-topica) and the pilot tested to enhance the management and commential production of Presume monochron in Bouhern Philippies. Build Shakawan Under Dio DSIT-PCARERD English testing valid address the problems of adving framms on heavy mortalities, diseases, detectading local contollors and the production of the state of the state of the state of the state of the state of the english state of the state of the state of the state of the state english state of the state of the state of the state of the state english state of the state of the state of the state of the state english state of the state of the state of the state of the state of the state will be an encode of the state of the state of the state of the state will be an encode of the state of the state (Resident evences and UNe facetal) and Pena wirks. The price limited to the project of the state of the state english state of the state of the state of the state of the state english state of the state of the state of the state of the state english state of the state of the state of the state of the state english state of the state of the state of the state of the state english state of the state of the state of the state of the state english state of the state of the state of the state of the state english state of the state of the monochronic during families in Middanas. Thus, contribute in intiging the state of the monochronic during the state gradie economic benefit.	Palitation: Palitation: I point or page researched in a scientific conference I point of Binnes mixed in MIA culture 2 pages or pages presented in scientific conferences I cound Binnes mixed in MIA culture Patters 2 P applications: I for MIA benchistry and Cargolia and Basyal for P monodon Patters 2 P applications: I for MIA benchistry and manual Cargolia and Basyal for P. monodonik, I for MIA benchistry and manual Cargolia and Basyal for P. monodonik, I for MIA benchistry and an annual Cargolia and Basyal for P. monodonik, I for MIA benchistry and the control of MIA technology I Bis Miss student trained and supported MIA bechnology I Bis Miss student trained and supported on MIA technology I Bis miss student trained and supported on MIA technology I Bis Miss	Mindanao State University - Naawan	Local shrimp farmers and other aquaculture practitioners LGUs and cooperatives Food industry Academe	01-Mar-24	28-Feb-26	ONGOING	4,969,100	2,614,540.00
	Potassive and Calcium-Enhanced Liquid Fertilizers from livense and Toxin-affected Mussel (AVAMOS Verdante)	Poverty reduction and empowerment of the poor and vulnerable	Assests are important failing commodiles to mapping costal filterfield, as they provide two-cost, high-value protein. Nance production in the Philippines ware reported at 227 housand MT in the production in the Philippines ware reported at 227 housand MT in the Philippines ware provide the production of communities, the industry's growth has been impeded by the poliferation of non-indigenous species (e.g. black muscall and the increasing contracts of an advance of the poliferation of control and the poliferation of control and the Million workh of income are normally loss their black muscals control and the Million workh of income are normally loss their black muscals control and the Million workh of income are normally in the black muscals advanced by the structure of the structure of the product protoclegation of toxins into non-taxe products. Analysis of 1, 19KK Ca. Mg and there normatics, 2 producture, 3 programs (elifonors, 4) cont and retirms and 6) file systew will be constanded to determine the product protoclegation of contex boxes have been determined. Market were community of the system will be advanced to determine the system, the legat fettilizes are in the organic multier and help promote regenerative agrinulum.	Pakitation Year 1: Dark Pakitationshebay: on hydrolyspit Photots: 2 ECo.: Photots Valuation Report: Hearon to Dorent Report Reports, Barbay, Anton, Entory, Barbay, Antony, Kenz 2: Dark Pakitation on Process of Degradation of Doren: 2 Report, Report, Report, Haron, Schler, Barbay, Antony, Anton, Barbay, Report, Barbay, Report, Barbay, Rehap, Rehap, Network 2: Patent Application Photoland and genomes of photological traditional for the CH MM application Application of photosyna the CH MM application of Photosyna Photoland and genomes of photological tradition of the Intel MM application application of photosyna the CH MM application of Photosyna Harbay, Rehap, Antop, Antop, Antop, Antop, Antop, Antop, Antop, Antop, Antop, Antop, Antop, Antop, Antop, Antop, Antop, Antop, Antop, Antop, Yan Z: Photosy of diseductivity (Isan-Genoma gene missel/Papier) for 1: 31 Joingraphication (J. Honoss of advent training-Vanchinger, 32 Joingraphica Intel, 2 Young researchers trained and photolet mail genomes of the CH MM application application applications Pathemating-4 Minang Markinghan, Sharpa, Antop, Antop, Antop, Antop, Yan Z: Photosy of Antop Hartania, 6 Istaning-Vanchinger, 32 Joingraphica Intel, 2 Young researchers trained and photogenetic applications and antop. 2 Istaning Joingraphica Pathemating-4 Minang Markinghan, Antop, Antop, Antop, Antop, Antop, Antop, Antop, Pathemating-4 Minang Markinghan, Antop, Antop, Antop, Antop, Antop, Antop, Pathemating-4 Minang Markinghan, Antop, Antop, Antop, Antop, Antop, Antop, Antop, Antop,	University of the Philippines Visayas (UPV)	Researchers/StudentsMassel Farmers and processonsFarmers	01-Oct-24	31-Mar-26	ONGOING	5,000,000	3,337,117.00

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31.	Total Project Cost	2024 PCAARRD GIA
	Product process ontimization at up-scale production	Powerty reduction and	The development and production of		University of the Philippines Visayas	Mussel farmers: Fish	01-Dec-22	30-Nov-24	2024'	4 005 184	1 205 156 73
	and market planning for low-salt fermented mussel	empowerment of the poor and	salt-fermented mussel sauce was a challenge to come up with potential functional food or ingredient (Peralta et al 2019). However, in any product	21s	(UPV)	sauce industry (manufacturing); Consumers; Local	01-200-22	001101-24		4,000,104	1,200,100.70
	(reina virus) sauce	Valiferable	development process, the product needs to undergo scale-up production. The proposed project intends to conduct a product process optimization to determine of cartility and unstitution to induct and product process optimization to the physical data and the product of the physical data and the physical dat	6Ps		Organizations; Academe					
			by the product volume production and eventually reducing product final cost. Process modifications and innovations, if applicable, can be drawn to	Year 1							
			efficiently increase yield without compromising end-product quality. Financial viability in the production of low-salt mussel sauce will necessitate adopting								
			an erective pricing policy and cutting down its production cost. The increase in production capacity will spread out its fixed cost resulting to a lower cost oer unit of output.	2							
			Market	Total							
			promotion is significant in translating R&D results into technological products for the use and benefit of society. Market promotion strategies will be designed for the product to binblight its features and benefits and will introduce the								
			product to consumers through institutional end-users and market influencers. Lastly, there is also a need to come up with concrete science-based policy	Publications							
			recommendations that would address effective sustainable resource management. This could be achieved through the crafting of a policy brief that includers all insure identified policy collinge and exempandations.	\$nhm-							
			пососо ин завеца, нестипос ротоу орнина, или технитиливнита.	undep,							
				3 papers published and /or training/manual guide							
				3							
				Patents/IP							
	Production and evaluation of dried microalgal biomass for improved shelf-life and product	Integrity of the environment and climate change adaptation and	Microalgae are known to be beneficial in a diverse field of applications but, very limited	Publication: at least 1 in refereed ISI-indexed scientific journalPatent: 1 possible utility modelProduct: at least 1 developed and characterized dried microalgal biomass	University of the Philippines Visayas (UPV)	1. Local microalgae producers2. Consumers of microalgae: Aquaculture and Food Industry 3.	01-Jul-22	31-Dec-24	ONGOING	4,989,330	507,097.54
	diversification	mitigation	extensive studies have been conducted for its post-harvest development and its other functionality aspects. One of the challenges faced by local producers is maintaining microalcal	productPeople: at least 2 project personnel trained in research and laboratory techniques; at least 1 MS student trainedPlace: partnership with at last 1 local producer of microalgae (/diaaron_Aquafeed Manufacturing)Policy: n/a		Product developers in Food, Health, Nutrition, Pharmaceutical Industry					
			post-harvest quality. The high moisture and nutrient-rich medium (fresh and paste form) make it susceptible to fast deterioration. In order to keep it	(· · · · · · · · · · · · · · · · · · ·							
			fresh, it needs to be stored in refrigerated temperature, and storage life varies (few days to weeks only) depending on the harvesting method. If proper								
			storage conditions are not propeny maintained, supplies could lead to deterioration and wastage. It also makes product transportation very challenging. In addition, the production is based on the immediate market			4. Academe					
			demand to prevent deterioration and wastage during storage. Producers could not stockpile supplies during good weather conditions, and reserve for eventual								
			market demands.								
			This study was conceptualized to be able to address this issue through the different								
			post-harvest methods of moisture removal. In addition, finished products will be characterized using physico-chemical analyses and storage viability studies. The findines of this study aim to help microalizat biomass producers by								
			providing in-depth data about the potential products to be developed, competitive market advantage, and expanded applications.								
	Production of all-male and fast-growing progeny using	Integrity of the environment and	The bottleneck in Philippine production of Macrobrachium rosenbergii is not the number of proven culture ponde and cancer, but the production of postlenere in	Publication	Mindanao State University (MSU-	This is a science-based project which aims	01-Aug-23	31-Jul-25	ONGOING	4,999,883	1,135,052.46
	phytoandrogen for sustainable seedstock of giant freshwater prawn Macrobrachium rosenbergii (De	mitigation	the hatchery. The production is constrained by the lack of postlarwae for grow-out, but if resolved, has a good potential for the aquaculture industry. M. rosenbergii is a	1 Manual on hatchery production of M. rosenbergii for conservation and adaptive management	Naawan)	sustainability and tood security for the benefits of various stakeholders. —					
	Man, 1879)		promising alternative to tiger shrimp due to its high market value, high export potential	Production of at least four (4) IEC materials which include brochures, pamphlets among others that contain relevant information about the product particular particular to the product of the life.		Fish tarmers, people ™s organizations and NGO™s—					
			and low susceptionity to diseases, many potential investors who visited in NoU Naawan and expressed interest to venture into freshwater prawn culture have inquired if MSU Naawan can do something to produce all male prawn firv. to	Patent/intellectual Property		Local government units— Academic and research institutionsResearchers and					
			reduce the head-body ratio of the prawn, to reduce the enormous size of the claws, and to delay the spawning of young female prawns. Their contention is	1 IP disclosure for microsatellite markers developed 1 IP disclosure for the utilization of pine pollen as sex inversion and growth enhancer for		students					
			that an improvement of these characteristics would make the freshwater prawn more attractive as an aquaculture species. This inquiry is clearly suggestive of the name for innovative meanscheet that are within the name of counties and	M. rosenbergii							
			biotechnology.	A least 10 sites for broodstock sources identified At least 50 Broodstock collected							
			The biston of the batches: encoding of M anoshors in Mindows are be transf	20 Primer pairs sequenced Production of 80,000 quality M. rosenbergii post larvae Al local 10 primeratelliki (SSD) materiae developed							
			from mixed you addition and any operations of the total business and the state of the second from mixed additions in different localitions by various institutions. Earlier attempts to produce postlarvae of M.	People Services							
			rosenbergii in hatcheries were conducted in various government and private sectors but sustainability of the operation was not attained to date. In fact, in Northern Mindanao, there	At least 5 mentees and collaborators trained on the hatchery technology of M. rosenbergii							
			are numbers of hatchery facilities for freshwater prawn previously reported in 2005 and 2007. Nevertheless. continuous coeration of these hatcheries were not	(3 undergraduates, 2 graduate students) 5 Undergraduates, 2 graduate students)							
			sustained to date and these were converted for other culture commodity such as tilapia.	(On-the-Job Trainings and immersions) At least 10 mentees and collaborators trained							
				At least 5 Undergraduate/graduate students supported (3 undergraduates, 2 graduate students) 10 Undergraduate/understudents							
				trained (On-the-Job Trainings and immersions)							
	Profiling of Selective Markers of Microplastics :-	Ranid inclusive and sustained	Our	6PsYear 1Year 2PublicationNAOne publication or nessentation in scientific fors/	DOST-Industrial Technology	Ternet	01-Doc 04	31, Mary 20	ONGOING	4 000 062	3 440 220 00
	Milkfish and Water Samples Using TG-GC/MS	economic growth	current project for CY 2023-2024, €œMethod Optimization of Digestion and Extraction of Microplastics in Milkfish (Chanos	conferenceProductsOptimized procedure on microplastics analysis using TG-GCMS from MikfishComparison of the extent of microplastics collected from different sourcesComparison	Development Institute (DOST-ITDI)	beneficiaries include;Researchers, Policy makers, Small-scale aquaculture	31-Dec-24	5 1-iviay-20	0.1001110	4,000,002	3,440,320.00
			chanos),e tocuses on the spatial distribution of microplastics in milkfish originaling from aquafarms with different water habitats. This mainly uses the notical microscone and the Fourier Transform Infrared (CTID) Spacetorescone to	of the extent of microplastics collected from different sourcesPlaces and PartnershipsBureau of Fisheries and Aquatic Resources regional officesBureau of Fisheries and Aquatic Resources regional officesPortyar 18, 2 Papelar Constants for any set for the set of t		sector, Local barangays, and everyday Filipin'o fish					
			identify the morphological properties and the composition of detected microplastics. Moreover, the current	Microplastics AnalysisPolicyAdvocate safer milkfish sourcing based on the results of the study							
			project identitied gaps such as, low precise size resolution of particles								
			this proposal, the project team aims to utilize a novel approach in the Philippines in microplastic studies by employing the Thermogravimetric Analyzer (TGA) coupled with Gas								
			Chromatography Mass Spectrometer (GC/MS) method. The profile of the selective markers of microplastics present in seawater and methods seawater and								
			Gas Chromatography Mass Spectrometer (TG-GC/MS). This thermo-analytical equipment will be utilized for the semi quantitative analysis of microplastics. The first phase								
			of the study is the establishment of a method to analyze microplastics. The second phase is the application of the								
			1G-GCMS developed method to environmental samples and milkish collected from aquafarms in the open water systems. Sneedifacilly this study forcurses on usion another analytical tool for.								
			the detection of microplastics and address the gaps identified in the first project rather than the application of the optimized digestion and microplastic								
			A								
			developed method through TG-GC/MS as well as the corresponding profile of the microplastics collected from different sources will be generated from the proposed study.								
			as an alternative method is identify microplastics. Hence this will also evaluate the advantages and limitations of TG-GC/MS in the detection of synthetic polymers in micro								
	-		sizes.								
	Reducing mortalities in crablet packaging and trading for better management of mangrove crab farms	Integrity of the environment and climate change adaptation and	I ris project is based on the results of previous mangrove crab projects of DOST-PCAARRD and the recommendations from the technical panel. Focused group discussions with six of the largest mangrove crablet producino regions in the	rubication: rear 1 - Training manual for officen science activities on (1) water monitoring, (2) mangrove vegetation assessment, and (3) mangrove cash species monitoring year 2 - 3 papers drafted for publicationPlatent. NAProduct: Year 1 - Preliminary set of	De La Salle University (DLSU)	Mangrove crab stakeholders, Youth groups, Women™s groups with environmental concerns,	01-Aug-23	31-Jul-25	UNGOING	4,994,792	1,259,948.00
		mitigation	Philippines show that mangrove crab farmers lose 25-100% of purchased crablets during transport and when purchased from locations with a huge difference in	markers for stress determination in crablets Preliminary design of improved crablet packaging		Fishing communities, Philippine fisheries industry, local schools and state					
			environmental conditions. The current packaging materials need to be evaluated for effectiveness and we need to continue improving the existing Aliamango electivity to provide forms with a work of corpora the test source of control of the	for transport Year 2 - Database of water parameters in target sites Design of an improved crablet packaging for transport Best practice in transporting crabPeople: Vers 1 - 30 additional constant computing magnetic transmitter in the formation of the second s		universities, environmental managers, LGUs, NGOs					
			their farms. To address these issues, this study will document the stress levels of crablets in different packaging materials and propose an alternative	ground. Year 2 - 30 additional coastal community members trained to collect information on the ground. 3 MS students supportedPlace: Year 1-2 -							
			design based on the results, it will collect variations in water parameters in Philippine coasts to ground truth Alinmango, which is still based on models and controller detained parameters and another in another the still based on models.	MOUs with LGUs/ Government agencies in Regions 1, 2, 5, 8, and 10Policy: Year 2 - 1 policy recommendation on improved management of mangrove habitats to help mitigate the impact of alimeter because and relevance and for any second							
			secure cara, and improve awareness and increase engagement of local communities in understanding coastal ecosystems by employing a citizen science approach.	unmake unange and anthropogenic factors on the wild populations of mangrove crabs							

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
	SNuG-UP- Sustainable Strategies for Mussel Glycogen Upscale Production	Powerty reduction and empowerment of the poor and waherable	Phase I d the mixed giveges project has established that the three Philippien access. Them visits, Modelue philippinature of glycogen. The instance and isolation of singles are goed oxists of glycogen. The instance and the single oxists of winds, provides additional value to the green muscle differentiation of singles are goed oxists. The mixed glycogen, we need to devide a single and the single oxists of the green muscle differentiation of singles are goed and the single oxists. The single oxists of the single oxists of the green muscle differentiation of the single oxists that allow most glycogen and can be countered to devide products that allow most glycogen and can be countered to devide products that allow most glycogen and can be countered to devide products that allow most glycogen and can be countered to devide products that allow most glycogen and can be countered to devide products that allow most glycogen and can be countered to devide glycogen. The most of the single oxists are product devide glycogen, the green the source of the green muscle. This is effect all devide in hybright the source of the green muscle. This is effect all the source of the green muscle. The single sing	Expected Output Year 1 Year 2 Publication Antop; 1 draft atticle submitted to a preservieweed journal for possible publication Patent/bitelloctual Properties Binlog; 1 optimization process, and 1 optimization process, and 1 optimization process, and 1 improved quality of the glycogen product.	University of the Philippines Tacloban College (UP Tacloban)	Musel farmers - value addition of their produceĂ Industry - to produce glycogen which will be used in the development new cosmetic products	01-Jun-24	30-Nov-25	ONGOING	4,999,530	4,070,183.00
	Supporting Cyanotoxins Risk Assessment through Nuclear and Isotopic Techniques 6th Food Safety and Water Quality Management of Freshwater Lake Systems	Read inclusive and sustained economic growth	Freehaware granubacterial bioloms (grannHMBs) has been in the rise globally in recent years. The secondary methodoles produced during these biooms are collectively and the secondary methodoles produced during these biooms are collectively approx. The presence of cylocotaxis in the waters and tables in asses with cylone/HBs indicates a potentially underestimated exposure nodes for human indication. The second call tables with in the integrate late in the Philippense, enterprise tables and approximately produced and the produced and exponer/HBs indicates a potentially underestimated exposure nodes for human enterprise tables and approximate produces, accompanied by nutlent overangply and effect of innite change, have caused recurrent epidoses of cylone/HBs one the years the public beath at high ratios of the secondary of the secondary produces and the second high nodes companies. The biot of details assessment for the failed and other metabolise levels interacted in the waters or accompliated in failes, and the disclont monitoring and transagement lagoration to the second mode the setting analytical capabilities as well as promote nuclear technologies in the devolgential of the second mode nuclear technologies in the devolgential of the second mode and approximate of the late. The oracel program will comprise too RBO opponential (in loss) and/and capabilities as always of the bioton-forming algal approximation and/or metabolica analysis of the bioton-forming algal approximation and/or metabolica analysis of the bioton-forming algal approximation and/or metabolica analysis of the bioton-forming algal approximation and formed tables analysis of the bioton-forming algal approximation and companies for the devolution for the alignment file transmitter (in the biota and fails contraints). We mittigente analysis of the company and comprised and the second analysis of the bioton-forming approximation and the second analysis of the bioton-forming alignment that the analysis of the bioton-forming alignment and the second	Solicitation: Attached file (DOST Form 5.9 - Expected Output)) The Qi preasch pages of dissemiliation of hindings and promotion of technologyPatent. Attached file (DOST Form 5.9 - Expected Output) (Doctored Control (Dost 1.9 -	DOST-Philippine Nuclear Research Institute (DOST-PNRI)	The target beneficiaries include the following industry: regulatory & resource management agencies; fitaheties and aquaculture sectors that include the common fisher/bick, fita heroCage overes; food & export industry that includes the farmed fish product developers and exporters; general public;	01-Jan-23	31-Dec-24	ONGOING	11,901,181	3,343,645.60
	Threatechytrid Cutlivation in Westweater for Polyonsaturate Fait Acid Production as Alternative Flah Peed/ Ingredient for Fish and Seafood Products	Integrity of the environment and climate change adaptation and miligation	The demand for aquaculture products and documentations and documentations and (RM and EPA) enclosed for a calculated increase, but the production using fish oil dependent on calculated of the NII enclosed for the second of the second second second second second second presented of a second and sustainable future, as well as the development of neurophysical second second second second second second second metalization of a robust and sustainable future, as well as the development of neurophysical second second second second second second second metalization of a robust and sustainable future, as well as the development of the project in the Philippens is contened on using wastewater attemates and second second second second second second second metalization of the project in the Philippens is contened on using wastewater attemates of dema a number of aboutsigns addressing garcular problems in the Philippine: 1) alternative and more sustainable source of that of the aquaculture industain second second second and the other aquaculture industains and wastes as an improvement of vastewater teatment factorizing yaudion they?using and the industainable second with the advected teatment factorizing yaudion they?using and the industation and the intumation teatment factorizing yaudion they?using and the interval and the intumation teatment factorizing yaudion they?using and the interval and they are advected by the equancition in water to approximate the interval and wastes as an improvement of vastewater interval suborizing yaudion they?using the provide second factorizing and the second factorizing the second second factorizing the second second factorizing the second second they in the second second they in the second second second they in the second second second they in the second second second second they in the second second the interval second second they in the second second second the second second second the sec	parties free 20es 20es 20es 10-bit constraints in scientific journals. At least 1 preprintator presentational bank infectional conditions of the propagation of teatment technology for food waters cysterized conditions for the propagation of teatment technology for food waters cysterized conditions for the propagation of teatment technology and food and the propagation of teatment of the propagation of the propagation of teatment of the propagation of teatment technology and the propagation of the propagation of teatment technology and the propagation of the propagation of teatment technology and the propagation of teatment of the propagation of teatment technology and teatment of teatment of the propagation of the teatment of the propagation of the teatment of the propagation of the teatment of the propagation of the team of teatment of the propagation of the teatment of the propagation of the team of teatment of the propagation of the propagation of the team of the propagation of the team of the team of the propagation of the team of the team of the propagation of the propagation of the team of the team of propagation of the propagation of the team of the team of propagation of the propagation of the team of the team of propagation of the propagation of the team of the team of propagation of the propagation of the team of the team of propagation of the team of the team of the team of team of the	University of the Philippines Los Barlos (UPLB)	Solentific Community2 Feed manufacturing industry3. Aquaculture industry	01-Apr-22	31-Mar-25	ONCOING	11.387,157	4.898,138.81
	Utilization of fruit processing waste as a source of probloks and immunoshmulants for the development of healthy and improved aquaculture feeds	Powerfyr reduction and empowerment of the poor and witherable	The fut processing industries in the Philippines are finiting, however, these industries provided a significant amount of waste, d'audilized days can cause negative effects in the enhancement (t.g. dogging begins and the enhancement of the enhancement (t.g. dogging and control and the enhancement of the enhancement (t.g. dogging the control waster produced and are discated after fut processing. These analyses are control waster produced and are discated after fut processing. These analyses are control waster produced and are discated after fut processing. These analyses are control waster produced and are discated after fut processing. These analyses are control waster produced and are discated after fut processing analyses the health and growth of the organism. Hence, fitters existes can be unliked as feed programs. Nerve and shared source and/or abring to utilize preservice and called into the and/or abring to utilize preservice and called into the and/or abring to table preservice and calles and the protection of the table and growth and tables of this waste. Further the project waster and and and programs the formation process to the fut waster. Besite privately and the organism between the process of formation and undersmend fut waster. In this waster, being waster to the control organism and the top that waster are being waster to the process of the fut waster. Besite privately and and the organism or distances and formation and undersmend fut waster. In the table privately and and the tables of the standard and share, as well as availables the privately and the tables of the based and share, as well as availables the privately and the tables of the analysis of the grid.	Palicitation: (1) Palicitations on the multificial profile, instructional factors in formed and uniferential factors in multificial profile, articolatir inferential traditional factors in the multificial profile, articolatir inferential and uniferential factors and the state of the adulted spatial with inferential factors and thesis of ferminal states in adult and states and with inferential columnical profile, articolatir inferential and uniferential factors and adulted spatial and the adult of the adult o	Windanao State University (MSU- Naavan)	Feed industry Aquaculture industry Researchers Students Trial processing industry Government agencies (BFAR, NFRDI), and universities	01-Feb-23	31-Jan-25	ONGOING	4,998,347	1,850,524.37

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
Development of a Framework for Resource Namegenet, Misglation of Impacts, and Guidance Towards Rational Utilization of Myella strigata in the Philippines	Project 1 The finhery, socio-economic aspect, and governance of Mytella atrigata in Philippine waters	Istagriy of the environment and climate change adaptation and miligation	A DOST-PCAMPBD-Index days drawed that Mydia strapta. non-hidgeona musel species, han infected Philippine waters (Motelano et al., 2001). The same reported that the excurrence of this amond species has become both a boon and a bane among local models and the excurrence of this amond species has become both a boon and a bane among local models and the excurrence of this amond species has become both a boon and a bane among local models and the excurrence of the among local and the excurrence of the among local momentating participation in the same species has a caused negative impacts in other commonities, resulting in decremental production of cultured shelffah, and loss of Inelihood. This study, therefore, amin to develop dark accommodation on the manual production models on the country and p is be on present the special of the adgrance products are safe for communities.	Palitation: Panauscipt submitted to Wolf- or Scopus-indexed journals: 2 incurrence on M strigtal Parauscipt and the published material Podicids: 1 Occurrence and Valimerability GB Map 1 4 useball editorigots: 1 video documentary on M. strigtals in the Philippines People and Samices: 3 MS and CB Students supported through their Ineasi special problem: 1 video documentary on M. strigtals in the Philippines People and Samices: 3 MS and CB Students support and other key agencies Paceus and Patients McMo/Academa (i.e., BrARNFRO, DENR, MSU Naawan) 2 MCUARDUC andox with WGM-of Academa (i.e., BrARNFRO, DENR, MSU Naawan) 2 MCUARDUC andox with WGM-of Academa (i.e., BrARNFRO, DENR, MSU Naawan) 2 MCUARDUC andox with WGM-of Academa (i.e., BrARNFRO, DENR, MSU Naawan) Palicy; 1 polog page submitted to relevant agencies Social Impad Subtantials utilization of muscle resources Economic Impad LineNood protection (for shellfish farmers) and livelihood promotion (for residents in infected areas)	University of the Philippines Visayas (UPV)	Target beneficiaries of the project are shellfish farmers, collectors, and vendors, local government units, national government agencies (DENR, BARA), peoples ¹⁴⁴ organizations, industries, mentored students and young researchers from the academe.	01-Apr-23	31-Mar-26	ONGOING	7,396,286	3.072.230.45
Development of a Framework for Resource Nemgement. Mitigation of Impacts, and Guidance Towards Rational Utilization of Myfella strigata in the Philippines	Project 2. Bulogipal and Ecological Aspacht, and Sociaconomic Inter and The Nor-indepension Mussel Mytelia strigata, in Newly Infested Area	Helgrüp of the environment and climate change adaptation and mitigation	Splital arguita, a possibly inserve mused, was recorded for the first time in the Philippines is 2014. Is established populations throughout the country in just areas of eventually agreed to the southern region of the country in just areas may man (a. Lucon, Panay, and Micdana). To the southern region of the country in just areas may are the southern region of the country in just areas the parater biologic and country and the southern and the southern and and Bacasare well throw very tills about this species, this tatuly project areas the in southern pays and country effects and altering benythern conditions, and southern and a fielding benythern to would result in the formulation of policy encommendations on the management and possible to would result in the formulation of policy commonstations on the management and possible utilization and and the formulation of policy commonstations on the management and possible to all communities in the country considering the biological investor.	Advications a scientific paper submitted for publication 1 EC matrix platestication 2 Economic paper 1 copyright for the parephote Peoded 1 Destruction may of M seligida in Peoply Bay 2 Indiant Selection (BS) 3 Longenue and ensets 3 Longenue and ensets 1 Constant subcets (BS) 3 Longenue and ensets 1 Constant subcets 1 Constant subcets 1 Constant subcets 2 Longenue and ensets 1 Constant subcets 2 Longenue and ensets 1 Constant subcets 1 Constant subcets 2 Longenue and ensets 1 Constant subcets 2 Longenue and ensets 1 Constant subcets 1 Constant subcets 2 Longenue and ensets 1 Constant subcets 1 Constant subcets	Afindanao State University (MSU- Niaawan)	The target beneficiaries of the project are finateriotics, icas government units: municipal and provincial), peoples,~, organizations, industries, academe, regional offices of national government agencies (DA-BFAR and DENR), and non- government organizations operating within the jurisdiction of the study area.	01-Mar-23	28-Feb-25	ONGOING	4,996,967	2,206,046,20
Development of a Framework for Resource Management Mitigation of Impacts, and Guidance Towards Rational Utilization of Mytella strigata in the Philippines	Project 3. Peat to Feed. The Potential Use of Invasive Mussel Myella stripsta as Wet and Dry Feeds	Inderfrage of the environment and climate charge adaptation and mitigation	The non-indigenous muscle Mipelia altiplate was first increaded in the country § years also. State, this speciation is of hitterest to many experts for It spread exponentially and affects other manine species. Research effects are focused on the species biological invasion, more than one of the biological invasion, and the species of the species of the species of the more species of the species of the species of the species of the species of the species and from the species of the species of the species of the species of the the polential use of Mipelia striptical as fixed and mineral supplement to bride and layer circle the polential use of Mipelia striptical as fixed and mineral supplement to bride and layer circle more species and from the sing non-indigenous information on the substation as animal feed as wery linted. The positive minited of the static yound also provide good inputs to the positive fixed instative strips which is no contribute to the decision support optice man management plan on the possible utiliation of non-indigenous muscle Mipelia stripsta. And at the same time possibly provide a cheaper feed source for positive and cheap	Adduation Specentation scientific fora 3 potentiation musel as feeds Hatent TEC materials on musel as feeds Patent 1 potentiar patent on Myella altigata meet processing and utilization as animal feed Product I potentiar patent on Myella altigata meet Formulated feeds for traid Masses as dry and we feeds People and Services People an	Mndanao State University (MSU- Nazwan)	The target beneficiaries of the projects are the following: Broiler and mangrove crab farmers Government agencies such as DA-BFAR, LGUs and other stakeholders Farmers of asian green mussel, oyster, and crab- mis such may will benefit to the positive results of Researchers of related fields and undergraduate students	01-Mar-23	28-Feb-25	ONGOING	5,296,209	1,851,123.00
Enhancement of Millish Aqueculture Productivity through Genomics (Bangus Aquaculture eNhancement through Genomics and Unified Sciences (BANQUS))	Project 2. Developing Genomic Resources for Improved Production Traits in Hatchery-bred Milkfish	Integrity of the environment and climate change adaptation and mitigation	Stabled has a fundamental sole in metring current and future hoch needs. In where of the overepictation and decline's deputs frammers, association production increasing contributes to foot housely and anoutly. In important food thin is Southwest Asia, the mitikith (Channo channe, Family Chandelas) has a sourced from agazination, and a the teaching graunultime spectra to holy production busine and anounced to magazination, and a the teaching graunultime spectra to holy production busines and anounced to magazination, and a the teaching graunultime spectra to holy production busines and anounced to magazination, and a the teaching graunultime spectra to holy production busines and anounced to magazination, and a the teaching graunultime spectra to holy production busines of the strategy to provide spectra to another the strategy and the spectra to the grantic business of the development of manner spectra to another the strategy and the spectra markets south as considered previous the strategy and the development of the mitlike previous and and provolvement. The project all energic hybrid housing subgrantices of the motilities previous and markets such as considered previous and alloc variants. Lettification of public markets markets such as considered previous and alloc variants. Lettification of public markets and markets such as considered previous and alloc variants. Lettification of public markets and markets business and another markets and another markets and markets business and another markets and another markets and markets business and another markets and another previous and allocations and genetic improvement of mitlike business and another markets and another markets and markets business and another markets and another markets and markets business and another markets another production.	In Parling militality gave expression for graveth performance through transmission experiment and extension of provin-traje generalizatoristic. 2 Montified genetic valuation provin-trajectory associated with graveth performance. 2 Montified genetic valuation provin-trajectory associated with graveth performance for primerulips selection.	University of the Philippines Diliman (UPD)	I Stakholders in the millifait aquaculture industry (goverment, private sackor) may benefit from the development of molecular markers for genetic improvement of atcherby proceducks; 2 Local researchers (research staff, graduate students) who will be provided opportunities of rother training in bioinformatic analysis; 3. The research/steinffic community in general as results from these studies will provide further averues for research related to milding apporting, biology, aquaculture, and resources management	01-Feb-21	30-Nov-24	COMPLETED	22,256,906	2,333,758.67
Genomic Technologies for Improved Production of Penaeus monodon	Project 1.7 validation of genetic markers associated with body weight in the tiger shrimp Penaeus monodon	Integrity of the environment and climate change adaptation and mitigation	This project is a sequel to a providua project implemental under the DOS-FPCANROP.Unded Tiger String Genomics, Program and a part of a fungeriesm effort that that no capatitatic on genomics and the second string of the second string of the second string of the second string of the amendance as draft genome assembly for P monodon and, in caliboration with SEAPECOADD and UPL in identifying candidate markers (based on anige nucleated periodymorphines, or SHAPECOADD weight / grants). The second string string that the second string the uncleader of the markers fring strategies to be implemented in collaboration with a commonation from the genetic markers fining strategies to be implemented in collaboration with a commonation from condition from the will enable the project to evaluate and confirm the performance of the markers under an environment that is representable of industry-based culture operations.	Peloitation Peloitation Licontific paper published in an international referred journal Paters/Intellicitual property Hitelicitual property signation on genotypic markers for P monodon body weight Pedota Ast of penotypic markers for P monodon body weight People Darvies Taning of 1 MS student Peloitenship Peloitenship Peloitenship Peloitenship Peloitenship	University of the Philippines Diliman (UPD)	The direct target beneficiaries of the project are P. monodon farm operators who will be enabled by the genotyping technology to increase their production through selection and use of direct targets and the selection and use of the whole P models was directly (faharitics, aquacuture, processing, export) also stands to benefit from the increased production of the farms.	16-Sep-23	15-Sep-25	ONGOING	8,440,919	1,228,934.00

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
Genomic Technologies for Improved	Project 2. Targeting Essential Genes Utilizing RNA	Integrity of the environment and	Shrimp production has been one of the major contributors to the country TM 's economy and an essential	Publication	University of Santo Tomas (UST)	Shrimp farmers, Biotech Laboratories,	16-Sep-23	15-Sep-25	2024' ONGOING	8,475,864	2,142,044.00
Production of Penaeus monodon	Interference to mitigate WSSV in tiger shrimp	climate change adaptation and mitigation	source of tood. In the effort of controlling White Spot Syndrome Vrus (WSSV) in strimp, the study aims to gain a deeper understanding of hox4-vrus interactions, targeting genes that may play a role in the infectivity or pathogenicity of WSSV. This project will focus on available information in the published database (e.g. GenBank), in published reports, and in previous studies such as the recently occluded of Tione Strimo Genomics Proceman. This study will candialize on the revious results.	2 publications in an international- refereed journal 1-tEC material 1-Manual for dsRNA production Place and partnership		Aquaculture industry, Research students, Academe					
			of the earlier projects the researchers have implemented. Specifically, in Project 1 (Mass production of dsRNA to mitigate WSSV infection in	MOA with MSU-IIT							
			shrimp) where a VP9, a viral non-structural gene was identified to have therapeutic potential against WSSV infection. Project 2 (Application of genomics in the development of genome-wide markers linked to production traits in Penaeus monordon bas initially identified potential markers for	People and Services 3 Undergraduate and 2 Graduate students supported							
			WSSV resistance. These previous data/processes can be utilized as a springboard in identifying genes for this project. In addition, this project will innovate and develop existing methodologies for local	Product/Process Low-cost dsRNA production system							
			applications to control and/or neutralize WSSV such as the in vivo and in vitro utilization of RNA interference (RNA).								
MECO-TECO	Role of Type VI Secretion System during Shrimp	Integrity of the environment and	d This project will investigate the potential role of Type VI Secretion System encoded by Vibrio-causing	Publication	National Fisheries Research and	P. vannamei and P. monodon farms/growers,	01-Jan-22	30-Sep-25	ONGOING	9,675,131	2,525,549.89
	Infection of Vibrio spp. –causing Acute Hepatopancreatic Necrosis Disease (AHPND)	climate change adaptation and mitigation	AHPND during shrimp infection. It has been shown that AHPND is caused by plasmid-encoded binary toxins V. parahaemolitium Photohabdur insect-related toxins (PirAVP) and PirBV(P). Moreover, little is known	2 publications 1 Indexed Conference presentation	Development Institute (DA-NFRDI)	Aquatic animal health researchers, T6SS scientist/research					
			about the pathogenicity and it remains unknown whether other virulent factors are present that might play important roles during shrimp infection. Interestingly, comparative genome sequence analysis	People and Servicess Trained staff:		community, NFRDI technical staff					
			revealed that Type VI Secretion System (T6SS) is the differentiating factor between AHPND-causing V. parahaemolyticus strains (AHPNIVP) and non-AHPND strains. Only AHPNDVP strains.	NFRD: 1 Science Research Specialist 1 Project Staff							
			encodes T6SS, the V. parahaemolyticus not causing AHPND does not have T6SS. T6SS is a nanomachine used by gram-negative bacteria to inhibit the growth and kill by injecting toxins into target	1 undergraduate/ graduate students (OJT/ internship/ thesis advisee)							
			bacteria or eukaryotic cells. To date, all of the studies on the disease-causing mechanism is on V. parahaemolyticus. Recently, however. other AHPND-causing Vibrio spo. were identified from affected shrimp populations, such as V.	Places and partnership MOA with Academia Sinica:							
			harveyi (Kondo et al., 2015), V. owensii (Lu et al., 2018), V. campbellii (Dong et al., 2017) and V. punensis (Restrepo et al., 2018). There is very limited AHPND-related information available for these	Dr. Erh-Min Lai Dr. Chih-Homg Kuo							
			solaris. This study arms to exert o on understanding on now vibro spp. causing very colonize and thrive in the strimp.	MOA with UP Diliman PGC Core Facility for Bicinformatics SEAFDEC Aquaculture Department							
Nursery of Eel Enhancement and	Glass Eel Early Weaning and Nursery Grow-Out	Integrity of the environment and	The project will conduct research on early weaning and nursery rearing grow-out operation to develop Instruct and policy recommendation on stock enhancement through aquaculture. This effort ensures	Publication: , Effect of different salinity and stocking density in pre-nursery rearing of glass	Mariano Marcos State University	Glass eel gatherers, glass eel traders, eel growers,	01-Jun-22	30-Nov-24	COMPLETED	9,453,394	1,339,637.65
Development Program	Operations	mitigation	sustainability and increase in production that would help the industry in moving forward.	Patent: Protocols on green water technology Protocols on cyclic feeding scheme for glass eel during early weaning and nursery rearing	(MINSO)	makers/legislators					
				stage , Product: Protocols on eel Pre-Nursery and Nursery Rearing , People: Symposium, Training/Seminar-workshop on eel Pre-Nursery and Nursery Rearing,							
				2 undergraduate student , Place: Local Government Unit, Small Scale Private Farm, Bureau of Fisheries and Aquatic							
				Resources 01 (BFAR RO1), UPV, ISPSC , Policy: Policy Brief on Eel Stock Enhancement Through Aquaculture							
	Assessment of the Production Performance and Profitability of Raising ItikPINAS (IP Kayumanggi) at	climate change adaptation and	2017. Two parental lines (IP-Itim and IP-Khaki) and one commercial hybrid line (IP-Kayamaggi) were developed through years of breeding and selection through	Performance Data of IP-Kayumanggi, established farm at BuCor Muntinlupa, No. of balut and salted eggs sold-People: Technical guidance and training provided to:	DOST Region VI	Native duck industry, balut and salted eggs vendors	U1-JUI-23	30-Jun-25	ONGOING	5,900,000	1,008,267.20
	Bureau or Corrections (BuCor), wurniniupa City	mugauon	research funded by DOST-PCAARRD. This new breed of layer type ducks is genetically superior to the traditional "Pateros" ducks. From 200	4 BuCor Personnel							
			eggs, in-suguritaring inter produces and eggs per door, per year, core or winch weight 68g or more, which is the minimum requirement for balar production. Assessment of the production performance of the likPINAS hybrid line will be done in small scale under bucCr that will be funded by DOST-PCAARRD.	, 7 100 PDL trained on IP-Kayumanggi management and egg processingPlace: BuCor and Cavite State UniversityPolicy: N/A							
	Creating Stable Supply of Duck and Duck Eggs in Camarines Sur Through ItikPINAS Production	Rapid, inclusive and sustained economic growth	tikPINAS is one of the superior breeder ducks developed through intensive selection and	Publication: €¢ IEC materials (brochures, fliers, techno guides and other marketing paraphernalia) using local dialects €¢ Business model/plan €¢ Scientific publication to	Central Bicol State University of Agriculture (CBSUA)	€¢ Existing layer duck farmers€¢ Learning Sites for Agriculture€¢ Potential duck farmers€¢ Local	01-Jun-24	31-May-26	ONGOING	4,992,895	2,676,447.40
	_		breeding using Philippine mailard duck or Pateros duck as parent stocks. It is a type of breed where the production performance potential exceeds the performance level of its parent reaching up to 70% egg production rate	accredited journat/gr Research presentation/gr Audio visual presentationPatent: ¢p Technical improvement to management systems of titkPINAS in the regionProduct: ¢p titkPINAS breeder multiplier farms¢p 10,000 male and female IP-Kayumanggi produced in the CBSUA		government units€¢ Balut and salted egg vendors€¢ Balut and salted egg processors€¢ Consumers of					
			(Medenilla, 2022). In the Bicol region specifically in Camarines Sur, duck raising was popular among backyard raiser for the production of salled and ambrament and any Memory this sector after a fifter from the verticality.	and partner multiplier farm6¢ Egg produced by CBSUA and partner farm producersPeople: 6¢ 50 farmers trained in IP-Kayumanggi production 6¢ 3 technology adopters to sustain the production 64 56 parameters and partner of MMD6/Hr. Adupt formation for MDA		duck eggs and (culled or male) duck meat€¢ Agriculture Technicians, researchers, teachers and					
			high mortality and limited profitability due to lack of access to key inputs such as trainings, quality breeder stocks and affordable feeds and biologics. Preliminary	with PCAARRD regarding implements and Project 6¢ MOU with ther schools, government institutions, associations, and private farmers. 6¢ MOU with Learning Sites for		students in layer duck breeding, production, and marketing					
			studies conducted in Pili, Camarines Sur, Ampongan, et. al (2019) identified one major supplier of ducklings which is Yolly®™s Balutan who also practices traditional method of including in terms of duck area produced 27,000 and	AgriculturePolicy: 6¢ Promotion of locally produced tik/PINAS pure and IP-Kayumanggi6¢ Sustainability of duck industry in the Bicol region6¢ Promotion of duck meat as alternative to chicken 6f Local localistic approx execution on the una of IP branch by universe.							
			per month were reported by the raisers in two barangays under study. The gaps identified Balut production was also done at the same processor that produces	and the control of the second se							
			about 32,000 balut per month. The increase in number of balut produced is due from the fact that raisers from other barangays also sells their eggs to the Balut maker in exchange of their fresh duck ensy. The newaling								
			price of duck eggs as of August 2023 is ±10.00.±11.00 per piece while balut sells at ,±25.00 per piece and salted eggs at ,±15.00 per piece. On the other								
			hand, ready-to-lay mailard ducks are sold at ,±350.00 + ,±450.00 per head while day-old ducklings are sold at ,±45.00 + ,±55.00 per head.With the aforementioned figures and data. there is a clear indication that the duck and								
			duck egg production is very much insufficient and of low quality due to the low productivity of the raisers and unreliable practices of processors. Moreover, there is all a second termal second integration and termany hereign a double								
			dispersal due to avian influenza outbreak according to Department of Agriculture. With this, local raisers find it hard to transport or ship breeder								
			stocks from other provinces resulting to high prices of inputs and difficulty finding stock replacements. By developing								
			antibiotic alternatives, this program will try to ensure food safety and stable supply of duck eggs and breeder slocks. Likewise, optimal performance of								
			ItikPINAS can be achieved by providing the raisers the ideal factors such as nutrition, housing, health and feeding management among others. This will result								
	Marketing Model for an Improved Disease	economic growth	July 1, 2023, total hog investry remains to be a major contributor to the livestock sub-sector. As of July 1, 2023, total hog inventory of the Philippines was estimated at 10.07M heads. In 2022, Luzon was the major source of hogs, producing 37% of the total production, followed by Mindanao (35%) and	rusmannen, i ancie suomiteti tor puolication in scientiti journal/Patent: h/aProduct: Model for distribution and marketing of hogsPeople: Consumers will have traceability of their pork and its by-productsPlace: Private-Public Partnership (government, hog producers, accredited	Dureau of Animal Industry (DA-BAI)	produced by the commercial farmers and there is no produced by the commercial farmers and there is no	U1-May-24	31-Oct-25	UNGUING	4,159,410	3,219,440.00
	management in Euzon, e mippines		Visayas (28%). Top provinces in Luzon include Batangas with 8% of the total production, followed by Palawan (3%) and Pampanga (3%). As the population grew and the demand for pork and other pig by- products increased. the using inducting experiment interefficient and other pig the production and other pig by-	slaughterhouses, local government of Batangas and private investors). The government will fund the establishment of the facility to be operated by the private-sector to ensure runtimicability. Development Dirichange established with hogi industry stableddeep. Deliny: Deliny:		provinces. This will save logistic cost, transport loss, and incidental expenses, among others thus					
			products increased, are some industry experience intersination and grobalization ensuing a notation increase in the movement of animals and their products. This raised both the risk and rate of disease transmission within the country and among different nations. The current network of hog movement as	Recommendations to support: 1) implementation of improved live hog and the support of the support. 1) implementation of more support. 1) implementation is a support of the support of the support of the support. 1) implementation is a support of the support of th		profit.Å, Consumers- Improved efficiency of distribution and					
			well as supply distribution and marketing model should be characterized in order to adapt to these changes in the hog industry and economy. The proposed study aims to analyze the contribution of pork movement to local directorse transmission and assees the internal of various kwo plavers to identify.	and 2) establishment of integrated facility for slaughtering, meat cutting and cold storage of pork.		marketing of pork thus, fair price for consumers. Also, consumers can be assured of quality pork					
			efficiencies in the supply chain in terms of marketing and distribution. Altogether, the findings will offer a valuable insight for the development of strategies for disease surveillance and control, and efficient hog			because of a better traceability system,Å, Batangas LGU- After the assessment of the disease					
			maneuring and disorbution models and are resistant to various price shocks.			management system of Batangas, policy recommendations to address the gaps and					
						Perhaps, there will be policy recommendations that					
						can be applicable at the national level that would help minimize the risk of spreading the disease.Å,					
	Development of Antibodies Against African Swine	Rapid, inclusive and sustained	African Swine Fever (ASF) is a viral hemorrhagic disease of swine that currently poses a serious threat to plobal food requiring to the Bhillionians. The ASE out-and charted in and 2010 which as a series of the ASE out-	The project aims to deliver the following output: 10 project members trained for BSL3	De La Salle University (DLSU)	Swine Farmers, Feed manufacturers, Research	01-Jan-23	31-Dec-24	ONGOING	21,828,595	4,179,673.86
	Fever virus Intended for Feed Fortification to Prevent Farm-To-Farm Transmission	economic growth	death of more than 3 million heads of pigs due to the virus. Despite various preventive actions, there is an absence of any drug or vaccine vs. ASF anywhere in the world indicating that ASF will be here for the	process, a sergers consistent inormination graps; 3. Wai material isolated and inoculated onto cell inste; 4. Verified ASF virus; 5. Isolation pero established; 6. Successful inoculation in chicken; 7. Anti-ASF antibodies have been quantified from poultry.		community, Researchers and graduate students.					
			long haul. This proposal addresses the ASF problem head-on by targeting the virus itself to keep it from being transmitted by designing an antibody product that will bind to and neutralize the ASF virus inside the aut to block its antivi into the surveine is circulation and provent colonizations[infection by the virus								
	Development of Forage-Targeted Starter Culture for Ensiling of Forage Feeds for Native Chickens and	Integrity of the environment and climate change adaptation and	d The availability of low-cost feed ingredients is one of the problems faced by native chickens and duck raisers in the country affecting farm production efficiency and profitability. Many of poultry species raisers depend mainly on compreciable available feed and or insortient and from will have the birds for the second second second second second second second second second second secon	Publication: 1., IEC materials for improved fermentation protocol 2., Substrate specific starter culture for improved fermentation. 3. Nutritional composition of Fermented Forance	Western Mindanao State University (WMSU)	Local farmers engaged in aquaculture farming	01-Apr-23	31-Mar-26	ONGOING	4,999,745	910,960.60
	Ducks	mitigation	brows their food to the pasture with no or minimal cash input, resulting to lower productivity with inconsistent product quality. Although, there are some raisers that started to utilize locally abundant	4. Nutritional Composition of Formulated Feeds mixed with fermented forages.Patent: 1., Starter Culture		LGUs and cooperatives Feed manufacturers and compounders					
			feedstuffs, forages, farm biomass and kitchen waste (swill) to minimize feed cost. However, because of lower digestibility of these feedstuffs due to higher crude fiber and presence of antinutificant factors (ANE) its will rain fully maximized. This prohetem on hower dimensional factors the second s	2. Utility Model for Improved fermentation protocol utilizing starter culture. 3. Formulated feeds mixed with fermented forages.Product: 1. Starter culture 2. Improved engling protocol utilizing developed starter culture		Academe					
			and presence of ANFs can be mitigated through fermentation. Ensight again of forages improved its nutritive value and degrades antinutritional factors present in the plant material, leading to an improved	Formulated feeds mixed with fermented forages People: Training on improved fermentation protocol:							
			availability of proteins and other nutrients. However, silage quality is inconsistent as no changes were observed on fermentation. Addition of incoulants can improve the fermentation, but efficiency of fermentation of incoulated forages is largely decondent on the interactions of the microbial sections in the	, 15 WMSU employees , 60 Students .15 Farmers/lace: 1 MOA to UPLB							
			inoculant with epiphytic microbial populations and chemical components within the forage and therefore consistency of fermentation product/silage can only be attained if a forage-targeted-starter culture will be	10 MOA to Farmer Adoptors Policy: Starter culture developed to specific forages may be a policy recommendation to the							
			uncervapped, the developed statter currure can be used now to establish an improved termentation protoco- for easier and consistent fermentation products, resulting to increase utilization of forages and other locally abundant feedstuff for zampen native chicken and fikPINAS and its adoption by farmers will be	these forages for sustainability of the technology.							
			increased because it is very easy to use.								

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
	Development of Philippine Signature Muscovy Duck	Integrity of the environment and	A breeding and selection project geared towards the development of Philippine signature Muscovy duck	At the end of four years, the project is expected to deliver the following:	Ifugao State University (IFSU), Bureau	-Ifugao and Quezon local farmers	01-Jan-22	31-Dec-2	2024' ONGOING	19,707,422	2,199,100.00
	Breed	climate change adaptation and mitigation	breed mit will support sustainability of quality breeder stocks leading to availability of duck meet supplication and the project also promotes when how the subplication availability of prok brought about by ASF. This project also promotes whenhood to smitholder farmers thru Muscovy duck meat production and other potential duck meat specially products.	—2,000 stable breeding true-to-type Philippine Mascovy ducks with predictable production performance and consistent product quality (V2 and V3): —Quality breeder duck production and distintution systems developed (V3 and V4) —At least 2 private breeder farms engaged in breeder Muscovy duck production (V4) —Nutrient composition and ensory characteristics di Mascovy duck most (V4)	of Animal Industry (DA-BAI)	Day-old duckling, slaughter and ready to lay pullet producers Researchers					
-	Development of Sustainable breeding and production	Integrity of the environment and	Paraoakan, the known genetic group of native chicken in Palawan has varying phenotypic characteristics	> Information on the productive and reproductive performance of breeding true-to-type	Western Philippines University (WPU),	Native chicken raisers in the province and in the	01-Aug-21	31-Oct-2	COMPLETED	8,478,601	952,996.10
	systems for Paraoakan native chicken in Palawan	climate change adaptation and mitigation	and production performance within its group as perceived by parasakan nakens. A sustainable breeding and sectoric RQD program for parasakan native chicken can intensify the improvement of the native chicken industry.	Panaolam native chicker; Jehrmalion angevingele production and management practices for Panaoakan native chicker; Johans: Joso David Leveler Panaolam native chicker; Joso David Leveler Panaolam native chicker; Joso David Leveler Panaolam native chicker; Joso Cip Joniette Granden natives chicker; Joso Cip Joniette Grandensen Mich Seeding and production facilities. Je Toro Cip Joniette fanziakan Nich Xeeding and production facilities.	Palawan State University (PSU)	region, faculty, students, NOOs, cooperatives, and other institutions who wish to engage in native chicken production, native chicken domestic and institutional consumers					
	EGGIOTYPE: Non-invasive in-egg sex identification	Rapid, inclusive and sustained	This proposal aims to develop a non-invasive duck egg sexing device using spectroscopy technology specifically for ItikPINAS Kayumanggi (IP-Kayumanggi) duck eggs. Traditional methods of sexing duck	Publication: A peer-reviewed journal article and conference proceedings paper detailing the design, development, and validation of the non-invasive duck egg sexing device.Patent: An	Technological Institute of the Philippines (TIP)	The target beneficiaries are the following: 1 Breaders and commercial farms involved in the	01-Jun-24	30-Nov-2	ONGOING	5,000,000	3,652,284.00
	on internets Eggs	economic grower	methops in the Thilippines are invaline, time-consuming, and prices to errors. The proposed evice well offer a faster, more sources, and non-invaline approach to service (dotted mytes), leading to extende the sources of the sources project cliquetres include conducting a comprehensive leadure travely on spectrococy, designing and exceedings a participate device, optimiting dorsally material that and the sources of the accounce vestility, and searces potential includery inputs. The findings at lab discensitized through accounce vestility, and searces potential includery inputs. The findings at lab discensitized through bootting productivity and reacting accouncies clearly while also contributing to the advancement of qualitative and qualitative research methods. The project lanse morphies expert in anite livesing intelligible productivity and excellences include to the device of a lab lucinositic on to-invalue intelligible productivity and approximation include the devicement of a lab lucinositic on invalues intelligible productivity, made subcomes and expected to yield improved productivity, reduced economic intelligible productivity, and significant contributions to the advancement of appendixed property. These autoines are expected to yield improved productivity, reduced economic intelligible productivity, and significant contributions to the advancement of a percencego in animal beneting.	P application for the non-invalve duck egg senting device Product. A fully functional non-invalve duck agg senting device protophys Projects Net Applicable for Establishing partnerships with hardnerins and treeders to plot test the device Piloy. Test Applicable.	rumpinas (17)	production of lite Privas Reynmanggi ducks. 2. Researchers and scientistis involved in the development of animal welfare and sustainable agriculture practices 3. Government agencies responsible for the regulation of animal welfare and sustainable agriculture practices.					
	Enhancing the Feed Supply System for Dairy in Negros Oriental through Corn Silage Production	Rapid, inclusive and sustained economic growth	This project will have four (4) different component studies, namely, Economic visibility of graving open- polinated and hybrid variaties of core in silage productions, graves han and in production performance of daily catile and goads fed with core silage, cost and return analysis on the production and feeding of core silage and promotion of core silage as a business venture and as a component of the feed supply system for dairy in Negros Criental.	Publication: Minimum of two publications upon the termination of the projectPatent: NoneProduct. Multise StagePeople: Entension works promoting slage production to local farmers (s0 com and dairy catlle and goat farmers). A Place: Steelect amunicatalities in Negroo Toental MOU with participating agencies and LGUePelicy. Apolicy incorporating make slage in the feed sucker system of cattle and goat controlution in Network Oriental.	DOST Region VII	Maize and dairy cattle and goat farmers in Negros Oriental	01-Jul-23	30-Jun-2	ONGOING	4,915,314	3,575,575.00
	Enhanding the Genotypic and Phenotypic Characteristics of Markaduke Natiku Pig Through Close Nucleus Breeding System	Rapid, inclusive and sustained economic growth	The project lifed "Enhancing the Genotypic and Pienotypic Characteristics of Mukadule Native Fig. Through Cose Mukao Bendrog Systems and is a significantly relations the outer Host of Makadule protection and the significant program is a significantly relation by the significant protection of the significant protection provide the significant program is a significantly relative to the significant protection of the significant protection provide the significant program is a significant protection of the signi	Publication design can estimité pagenes andrés ECPearait Adussis Technology on production of genererhoduct. Un gella and 2 junior bance (top 2014) portuget. Adus 306 for leichon page antone anagement and artíficial resonancians. 20 Marcal andres and 20 Marcal and 20 Marcal Hongreis and anagement and artificial resonancians. 20 Marcal and 20 Marcal and 20 Chalory Hongreis and the chalory advantation (top page 10 Marcal and 50 Chalory Resonancial and anticip pager. 1 MUL between Marcia and 50 Chalory Policy incommendation on matching and distibution of Insteings, pols and polit hypotholistis	Marinduque State University (MarSU)	Industry actors and players such traders, and processors Famer-cooperators Would-te industry actors and players (interested partners) Academe: Researchers and students Consumers	01-Oct-24	30-Sep-2	ONGOING	5,000,000	3,250,992.00
	Enhancing the Production and Profitable Utilization of	Rapid, inclusive and sustained	This proposal aims to re-establish the population of ISUbela® Native Pigs at ISU to ensure a sustainable	Publication - At least 2 research papers submitted for publication in a scientific journal or	Isabela State University (ISU)	1. ISU researchers and students2. Local	01-Oct-24	30-Sep-2	ONGOING	5,000,000	2,375,991.00
	ISUbela® Native Pigs	economic growth	Therefore present Statics is expected as priorically prioric benefing statics for local ranker pp partners to prograve the productivity of ratike pp productions and increase the increase of partners in the regionary of productivity of ratike pp productions and increases the increase of partners in the regionary high productions of the products. Statistande stative pp production hangs the page/calcian of technologies in feeding, organized breeding and selection, production and health management as productions and the statistical breeding and selection, production and health management and technologies in feeding. The statistical breeding and selection, production and health management at professionary and the statistical breeding communities and augmentsupply through conservation by profession and followed in that the production breeding communities and augmentsupply through conservation by profession of SUb-delli Native Pg.	Commission of Product vidi Neurole 1993 and 1901 Leaftins Right Pagina Societies 1.3 45 cost institue in perspectives in Stabilish Right Pagina Vidi Leaftins Right Pagina Societies 1.3 45 cost institue in perspectives in Stabilish Right Right Pagina Right		entrepreneurs engaged in native pig production3. Native pig traders4. Native pig product processors5. Municipalities/ Barangay LGUs					
	Enhancing the Productivity and Sustainability of Benguet Native Pig Production	Rapid, inclusive and sustained economic growth	This project and a provide the production of value pipe in the province by providing a substration of a number pip production, while contributing to sustainable supply of pork in the province and the country as well.	Publication: 1. One (1) technologiade on Bengiant halter pig productionPatent: 1. One (1) 2. Foreing grade for temport ration pig/Product. 1. Forty (40) Bengiant halter pig breader annual. 2. Foreing grade for temport ration pig/Product. 1. Forty (40) Bengiant halter pig breader annual. 3. Dowlogied centering system and mating pip for the improvement of Bengiant Halter Pig 4. Technologiade on improved tanks pig production system in Bengiae/Pegies 1. Technologi againton and harming provide to the Molecular 0.0 Immers trained 16. (20) eleminant months 16. (20) eleminant mon	Benguet State University (BSU)	Researchers, professors, students, and swine heading and second second second second heading of semicons heading of semicons haship of possible institutional markets	01-Jul-24	30-Jun-2	ONGOING	5,000,000	1,532,680.00
	Establishment of a breeding population of Markaduke	Rapid, inclusive and sustained	The adoption of Markaduke from MSC to the province of Rombion could have a significant effect	Publication: Publications Ār€s- Journal article	Rombion State University (RSU)	Nativo pia arawan	01-May-24	30-Apr-2	ONGOING	4,999,380	1,904,460.00
	Native Hig in the Province of Nombion as a strategy to widen its production and distribution	economic grown	on the development of the eccoracy of the province and can contribute as another source of income for when neises. The province and can contribute the source of fourtil development of the source of the source of the source of the source of income for a source of the source of the source of preserve is breed for further propagation and detablishion in the country in conceptualized and also in the with the current initiatives of the Swire ISP of DOST-PC-MRRD	Ar Ed. Annual Reports Are Seminal Report Are Seminal Are Semin	Taionth of Surtheaston Dillocitor	Native Jing grovers Farmers Deut-of-school youth Entrepreneurs Policy makers Women association, cooperatives, etc. LGUs, OFWs, 4Ps, TUPAD Single mothersingle father Faculty/students researcher	01. bil 24	20 km 2	ONCOINC	E 000 000	2641977.60
	Establishment of an Economically Viable and Sustainable ItikPINAS Breeder Farm in Mabini, Davao	Rapid, inclusive and sustained economic growth	Ine Philippine duck industry is a multibilion enterprise with a wide range of statebolder. In David Pening, the value of production for duck over and most	Publication: 1 publication on the technical and economic feasibility of an ItikPINAS Breeder Farm OperationPatent: 1 patent for IP duck egg smart incubatorProduct: 1 IP duck egg emart incubator.	University of Southeastern Philippines (USeP)	Duck industry stakeholdersIP Multiplier Farms in Davao regionAcademeResearchersStudents	01-Jul-24	30-Jun-20	UNGOING	5,000,000	2,654,872.50
	de Uro		Incontects of 310 million perces, and the volume of production was estimated at 1.53 houses of Min deck segs and 1.23 houses of Min doubt setting and 1.232 (PAA, 2023). The continued survival and growth of the inclusive depend on efficiency and the setting of the setting of the inclusive depend on efficiency the set of a final methods (Chamg of DOST) PCMMOR 0, 2016 implemented by dock developed through the inplusion of DOST) PCMMOR 0, 2016 implemented by dock developed through the inplusion of DOST) PCMMOR 0, 2016 implemented by dock developed through the inplusion of DOST) PCMMOR 0, 2016 implemented by dock developed through the inplusion of DOST) PCMMOR 0, 2016 implemented by dock developed through the inplusion of DOST) PCMMOR 0, 2016 implemented by dock developed through the inplusion of DOST) PCMMOR 0, 2016 implemented by dock developed through the inplusion of DOST PCMMOR 0, 2016 implemented by dock developed through the inplusion of DOST PCMMOR 0, 2016 implemented by dock developed through the inplusion of DOST PCMMOR 0, 2016 implemented by dock developed through the inplusion of DOST PCMMOR 0, 2016 implemented by dock developed through the inplusion of DOST PCMMOR 0, 2016 implemented by dock developed through the inplusion of DOST PCMMOR 0, 2016 implemented by dock developed through the inplusion of DOST PCMMOR 0, 2017 implemented by produce (Dostingo et al., 2017), Revise without that the opportunition profession (Dostingo et al., 2017), Revise without the inpluse the Dost of Dost and dost of Dostingo et al., 2017, Doston of States and dost of Dosting DOST 2, PSNyumang is a commercial hybrid produce (Dostingo et al., 2017), Rough the Dost Dost of States and dost and the Dosting and the Dosting and the Dost and dost and the Dosting and the Dosting and the Dost and the Dosting the Dosting and the Dosting and the Dosting and the Dosting the Dosting and the Dosting and the Dosting and the Dosting and the Dosting the Dosting and the Dosting and the Dosting the Dosting the Dost Dosting the Dosting and the Do	1 EC materialPeople: 1 training conductedPlace: 1 institutional partnerPeticy: None							

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
	Establishment of the Batanes Native Pig Breeding Herd	Integrity of the environment and climate change adaptation and mitigation	In boat the name op production in Balance, the Balance State College firrough its agriculture department, intends to implement an RAD project to develop hearting trunt-object population of Balance name page. This is to inside the sectoring strunt-object population of Balance name page. This is to inside the field sectoring agriculture growth, and in providing between of population of Balance with for the head maps bed to the Frightman in general.	Nabitation A least two pages on the production system of native pigs in Batanes, phenotypic characteristics and genetic diversity of Batanes native pigs Production guide on Batanes native pig rating	Batanes State College (BSC)	Researchers, professors, students, and swine breading practitioners Native pig farmers Native pig consumers Institutional markets	01-Sep-22	31-Aug-25	2024' ONGOING	5,000,000	963,386.90
				areeding good alins beeclint creates for balance instein p go Patent: NA , Product: Balanes nalive pig breeder animals/People-Fairners, Agriculture Department, and patriore agencios will increal technical broukdeg and training/Place. Patriceship with LGUs in Balance ProvinceParily: Patrior benefing and conserving the unique genetics of nalive page in Balance							
	Genétic structuré analysis and servelopment of genetic sceneral protocols for traceability of Philippine Native Pig populations	integrapy of the environment and climate change adaptation and mitigation	and from different locatious/Regions, is the OL Back from Quezon, Merskakke from Marindeyale, Shringgan from exame Samura (Stabel Immediate), Yoshak Mon Kalinga and the Benglen nahre pig- Uhrdnundar), the Artican Swine Forer (ASP) outbreak diminished the number of breeder animals in metallised the state of the metallised with a set of DAN markers to statement benefing and and energy and the pigs and the state of the state markers and the state of the state markers and the state of the state markers and the state of the state markers and the state of the state of the name of the state of the state of the name pig population and dentify a set of DAN markers to dentify a set of the state	astractionscendings from scientific conferencePatient A I lead one (1) PE filing on UMP-Beet on genetic screening prodokt/Hnodat, L. Hardon (c) (1) Pereting protocol established suitable for naive andrey commercial pig. All seat one (1) protocol more produced and the product of the science of the science of the science of the science of the science of the science of the science of the science of the SGASL staff on new genetic science of the science of the science of the science of the science of the science of the science of the science of the science of the science of the science of the science of the science of the science of the science of the science of the science of the wertification is setting up of the science of the science of the science of the wertification is setting up of the science of the science of the science of the wertification is setting up of the science of the science of the science of the wertification is setting up of the science of the science of the science of the wertification is setting up of the science of the science of the science of the wertification is setting up of the science of the science of	Philippine Larabao Center (PCC)	Vandus native pig KaU stations, Cooperatives and famer: vs. association, individual households remember and the station of the station of the station multiplier farms and commercial native pig raisers	01-JUI-23	30-Jun-26	UNGUING	19,179,054	4,272,391.30
	Improvement of forage species for high yield, improved quality persistence to curing, and drough tolerance towards a sustainable dairy production	Rapid, inclusive and sustained economic growth	Revtationg animal nutrition and productivity in the backycaldriamiliadu davy catte farma forwally forage gene bank enhancement using farmers? ¹⁶ drough ago-morphological characterization, drough telerance exakution, bachemical and nutrition profiles. Finally, we will conduct an initial hybricitation of the promising fodder accessions equipped with high yield and good nutritional properties.	Publication: Publication: A fault 1 Solar on C Biodeed publication A fault 1 Solar on C Biodeed publication of the Solar of C Biodeed A Pater: There is no patertable product or technology from this research. Product 1 A Å A Near 16 research forms accession scenario of the Solar of C Biodeed A and drough toterance 2.A Å A Å Neart 10 longe accessions added to the give bank model of the solar of the Solar of C Biodeed A A A A A A A A A A A A A A A A A A	University of the Philippines Los Baños (UPLB)	The key stakeholders include forage crop and dairy cattle farmers, community extension staf, academe (e.g., students, researchers, faculty members), private organizationa (associations and cooperatives), policy and decision makers, business community anged an agr-inductial enterprises, smallholder farmers, and local government units.	01-Aug-24	31-Jul-26	ONGOING	4,998,483	2,534,179.20
	Improvements of the Egg Vending Machine as Commercial Model	Rapid, inclusive and sustained economic growth	Baiut is one of the calibrate discusses in the Philipsines take transcend geographical regions, and calibrate discusses in the Philipsine take transcend geographical regions, and calibrate discusses in the discusses of the transcender geographical regions, and region distribution of the discusses of the	Pabitation: publications is Geneting: journal journality of publication/Paterti utility models for system composering in dual winding camparity indications of the system compositional Brought participating agencies as regards to the implementation of the programMelky Technical inputs to policies pertaining to promotion of the local duck egg industry	University of Santo Tomas (UST)	balut consumers and balut producers	01-Apr-24	30-Sep-25	ONGOING	5,000,000	3,373,619.20
	Improving Growth and Reproductive Performance of Caraga Black Native Chicken through Selection and Breeding	Rapid, inclusive and sustained economic growth	Caraga State University (CSU) has developed the Philippine version of black chicken, which has the potential be marketed as a hashiny most product. Locally shown as "balant," the Caraga black nature and a meetine to classification of the Caraga black nature of the Caraga black nature and meeting to classification and higher antiodated meeting classification and hashing patiential for nutraconclass and caraga black nature extenses (Mexra-2011). The black hash only cara the associated with higher promotion and higher antiodated meet present in the chicken and has the patiential for nutraconclass and caraga black nature chickens patient extensions alternot from the different reso calculate. In the Philippinet. The Philippine nature chickens have higher muscle to bore ratio, uses fat, and unique table, fators, fators, and have chickens make extension structure to the different reso calculate. In the Philippinet. The Philippine nature chickens have higher muscle to bore ratio, uses fat, and unique table, commond chickens (Lambio, 2000). The Canaga State University established the data on the phenotypic analyzed produces thing a nutrieval as sharp of the myochologics that of the Canaga black nature chickens have higher analyzed produces thing a nutrieval of the higher state of the Canaga black nature collects high analyzed produces thing a nutrieval of the classification of the charge black nature chicken high analyzed to that and performance of the Canaga black nature chicken high and higher chicken table and performance of the Canaga black nature chicken high thereafting and the Canaga black nature chicken have charged matching and the stategy data in the Canaga black nature chicken have charged as a sectors that of Canaga black nature chicken in the charged on the thereafting and thereafting and the chicken on the chicken chicken the thereafting and and the stategy data is the Canaga black nature chicken the beefing and selection. To matchicken that and performance of the Canaga black nature c	Advication: Two (2) activity promit publications (BIC)(BIC) informed) Potent: Copyright of BC materials Two (2) activity and Taximan regularization of Caraga Nuture Analysis (Nuture Copyright) of BC materials interesting of public Copyright (2) activity of the Caraga Nuture Analysis (2) and the State (2) (2) for an activity of the Copyright (2) and the State (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	Department of Agriculture Regional Field Office XIII (DA RFO XIII), Carega State University (CarSU)	The project beneficiaries are the following: Native chicken raisers in Caraga Region and other Regions - ken domestic and institutional consumers Farmer Entrepreneur Tourist Destinations sites Faculty, researchers, students, NGOs, Cooperatives and other organizations who wish to engage in native chicken production and other organization with to engage in the organization of the students of the students of the organization with the students to other organization of the students Local Government Units (LGU's) Youth Development Programs	16-May-24	15-May-26	ONGOING	4,994,600	2,607,974.00
	Improving the Efficiency of Assisted Reproduction Techniques in Support to Dairy Cattle Breed	Rapid, inclusive and sustained economic growth	the project aims to increase the number of genetically- superior dairy cattle through the use of assisted reproduction techniques to enhance the reproductive efficiency and overall productivity of local dairy farms.	Publication: 2Patent: 10Product: 14; 24; 25; 26; 27; 28; 30People: 31; 32; 34Place: 38; 43; 44Policy: 48	University of Science and Technology of Southern Philippines Claveria	Dairy Cattle Farms Large Ruminant Farms	01-Jan-25	31-Dec-26	ONGOING	5,000,000	3,125,180.00
	Lorenzument Integrating S& Therventions with Common Farm Practices to Ensure Quality and Safety of Locally- Produced Covik SMIII (Ethanching the Handhing and Houdaging Technologies of Locally-Produced Cov/s Milk)	Integrity of the environment and climate change adaptation and mitigation	The project all help the dark present intrinsite mit applouge and seatings which ensuring the quality of the mitir produced in the forms and the value back do the concents. It will incluse the debetacion attributed to long storage and shifts in mitil temperature because, as practiced by most field-lang temperature and the remove firm feezers complied to address to the following day. The subuy will be integrating S&T technologies that will minimize mit social retrospin temperatures and from the life/sca there contampations.	A the new of havy years. The project is separated by dollar the following: Information on the mit, quality an elitometed by productions practices; handling, producing and marketing in Northern Merdanao 2 Reduced mit watering a low to project by 80% 3 Maturet software on the handling, storage and packaging that are suitable for dary fammes in Northern Merdanao	Utampilg (US IP-C) University of Seinee and Technology of Southern Philippines (USTP)	International Control	16-Apr-22	15-Oct-24	COMPLETED	9,506,881	722,112.34
	Operationalization of the Swine Breed Registry System in the Philippines	Rapii, inclusive and sustained	Establishment of the Breed Registry System (Phase 1) Initially aimed to ensure the supply and quality of benefore animal advance and optimised to all avere benefore times. In support of the counter of the supplementation of the	Publication: Publication: Publich at least 1 improved Breed Registry User Manual. Patent: Possibly produce a copyrighted software Product: Breed Registry System Web ApplicationPeople: Train a minimum of 3 sovie breeder farm representatives on the use of the improved Swine Breed Registry Software	University of the Philippines Los Baños (UPLB)	(1) Association of Accredited Swine Breeder Forms in the Philippines (ASBAP) members who can use the certificates a means of promoting quality breeders in the market. (2) Academe and subcnit(3) Autoing and commercial swine farms that buy breeder animals for their specific purpose.	01-Jun-24	30-Nov-25	ONGOING	4.008.503	3,146,584.70
	I										

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
	Optimized Utilization of Brine as a Nutritional Supplement for Cattle in Batan Island, Batanes	Rapid, Inclusive and sustained economic growth	The project all also result is againsted all production processes and provide initial infrastructure for where servicely. The outcomes will incitely them the heatest by the money floot guilty and accently, ensuing consistent all iotization, and providing freeheater, thereby enhancing the overall well-lenge and economic entities of the island WHM his, the researcher and to produce the birth outcome and economic entities of the island WHM his, the researcher and the optimization the isolation in the optimization of the island WHM his, the researcher and the optimization birth outcome births, and in strengthening the production of all which is already being commercialized by the Municipally of Uyugan in the Province of Bitanes.	11 Bits weld- 62090-85: indexed Publications / Januar Bubbardam, (11) eas and processing's protection, (1) prostdyce hine dispanse and nous bits applied with milectual property interaction, (1) prostdyce hine dispanse and and use the all processing machine. Missional methods, (1) prostdyce hine dispanse and machine use handling and the methods, (1) prostdyce hine dispanse and the state of the state of the state methods, (2) prostdyce hine dispanse and the state of the state methods, (2) prostdyce hine dispanse and (2) prostdyce hine fragility dispanse methods, (2) prostdyce hine dispanse and (2) prostdyce hine fragility dispanse (2) prostdyce hine dispanse hine fragility dispanse hine fragility dispanse (2) prostdyce hine dispanse hine prostdyce hine fragility dispanse (2) prostdyce hine dispanse hine prostdyce hine hine fragility dispanse (2) prostdyce hine dispanse hine prostdyce hine hine fragility dispanse (2) prostdyce hine dispanse hine prostdyce hine hine hine fragility dispanse (2) prostdyce hine dispanse hine hine hine hine hine hine hine (2) prostdyce hine dispanse hine hine hine hine hine hine hine hin	PSTO Batanes (DOST Ril)	The following are the groups/persons who will be positively affected in the conduct of this project. LGU Uyugan PLGU Batanes Hvatan sait producers Ivatan fishermien and fish processors Ivatan fishermien and fish processors Foods and feeds industry	01-Oct-24	30-Sep-25	2024' ONGOING	4,999,824	4,999,824.00
	Production Performance and Profligbility Testing of Purified Native Pig Breeds	Integrity of the environment and climate change adaptation and mitigation	In 2015, the DOSTPECARRED funded a research instant led by the Menotoque State College in collaboration with the instant led by the Menotoque State College in collaboration with the manufacture interaction of Philippine native gas. The Reamp.D instant and profitable utilization of Philippine native gas. The Reamp.D instant is the state of the state with at least 60% uniformity in physical characteristica and with improved production performance and product quality. The program and the deleted between the state and statechart, the state gas and the state of the state of the state performance and product quality. The program and the deleted between the performance and product quality. The program and deleted between the production is the state gas and the state of the state of the production and the period between the performance of the state gas and the state of the state of the state of the tor commercial native period bits and state of the state of the deleted tor commercial native period bits and state of the state of the deleted tor commercial native period bits and state of the state of the deleted tor commercial native period bits and state of the state of the deleted tor period bits of the period bits and state of the deleted of the thorary mention gas period bits and state the period gas of the period of the period bits and state of the s	Pelicitation: Altest 2 ecopyphel GD: materials/promotional materials Pelant: National Checkmann: Data of Checkmann, Pelicitation (Structure) Pelant: National Checkmann, Pelicitation (Structure) V00 pas (Personnel and PCU) trained for savier management and processing , Place: Bureau of Corrections and Coate State UniversityPolicy: NA	Cavite State University (C/SU)	LGU, PDL-7, Researchers and students, native pig raisers/farmers, Native pig industry, Lechoneros	01-Jul-23	30-Jun-25	ONGOING	5,000,000	1,587,405.55
	Rapid Enzymatic Fermentation and Nutrition Enhancement of Corn Stover and Rice Straw Silages	Rapid, inclusive and sustained economic growth	Leastock is one of the most important industries in the Philippines that larging contribute to our current doed supply chain. Neverer, shortage of colder especially during lies leasy protochash measures in the same of the	Publication: At least two (2) paper setup/ or submission to republike peer-entered, and SOOUNS-indeed social factor and/article that radius utility model dark or expression protocol for slage for submission to URLB. TIBDO, patient and/or utility model dark or attraction of the submission to URLB. TIBDO, patient and/or utility model dark or protocol Republic Associations and the submission of the subject and protocol Republic Association consider and rota utility and protocol Republic Association con solver and not an using and protocol Republic Association consider and not an utility and protocol Republic Association consider and not an utility and cooperatives for that noniPolicy. None	University of the Philippines Los Baños (UPLB)	Corn and rice farmersLivestock farmersDairy industryConsumers	01-May-24	30-Apr-26	ONGOING	4,997,555	2,605,740.00
	Serologi E Valuation of Herd Immunity Againet African Swine Fever (ASF) in Backyard Pigs in Camarines Sur	Rapid, inclusive and sustained economic growth	The research may provide significant implications for both load and national contexts. In Carnahires Sur, where particularies for both load and national contexts. In Carnahires Sur, where implications for both load and national contexts. In Carnahires Sur, where and the second stability is an initiative concomic stability. Furthermore, auguing the effective practices may serve as an exidence-based model of biologically measures for famore across the country. In Sub- stability of the Implicational Stability of the second stability of the second stability of the second stability of the second stability of the initiative second stability of the second stability of the second stability of the initiation of the second stability of the initiative second stability of the initiation of the second stability of the initiation of the second stability of the initiation responsibility of the initiation integral by between human (synchronoid lange), annul, and environmenter (lanual impact) thesh, thus contributing to global efforts amed at mitigating the inspace of ASF while beauting load communities and the week international commonly alide.	Publication: The output of the study will be subjected to presentation and submitted for publication if according in a interest interesting ound, possibly a Socialization it. Carolina and the constraints of the subjected in the provided in the constraint of the subjected in the subject of	Central Bicol State University of Agriculture (CBSUA)	This project will benefit the local backyard farmers of Camarines Sur province. This laduly will also benefit the province's LGUs and provincial veterinary health units.	01-Sep-24	28-Feb-26	ONGOING	3,290,275	2,682,350.00
	Strengthening the Thrining Duck Egg Industry in Negros through the Introduction of tikPINAS	Powery reduction and empowerment of the poor and winerable	Negrato Chemistal in real a magri cacka producing province. In 2022, there was an inventivy of 64.000 heads are ported by the Provincial Wentmany Office All Negrato Chemist Pro-Philippine Baladian Alucholy (PSA) reported 171.153 Juscia in Negrato Chemistal for January 2023 which represents a magner 125 were applied to the provincial Wentmany Office All Negrato Chemistal Pro-Philippine Baladian Schoboly and the province of the province of the All Negratory and the All Negratory All Negratory and the All Negratory 2023 alone, the bursaid of Animat Alausiry has reported 11. M and the province of the All Negratory 2023 alone, the bursaid of Animat Alausiry has reported 14. M processes are for the month duck formers to the format of Animat Alausiry has reported 14. M provide the All Negratory 2023 alone, the bursaid of Animat Alausiry has reported 14. M provide the negratory and the All Negratory 2023 alone, the bursaid of Animat Alausiry has reported 14. M provide the negratory and the All Negratory 2024 alone, the bursaid of Animat Alausiry has reported 14. M provide the negratory and the All Negratory 2014 alone that the analysing characteristics especially than entry a warrying carses with an efforted nucleoting negratory and the All Negratory and Providial and a commercial hyside mere analysis of the All Negratory and Providial and a commercial hyside mere analysis of the All Negratory and Providial and and the all shares analysis of the All Negratory and Providial and and the all shares analysis of the All Negratory and Providial and and the advantatory of the Issue and All Negratory and Providial and and the all shares analysis of the All Negratory and Providial and and the all shares analysis of the All Negratory and the All Negratory of the Issue and the All Negratory and the All Negratory of the Issue and the All Negratory and the All Negratory of the Issue and the All Negratory and the All Negratory of the Issue and the All Negratory and the All Negratory of the Issue and the Negro	Publication: EC materials (hetmogradue and involumes) be Dack egg production and materialing, and cost and metizin. 1 paper on P management in Negro C locati 1 paper on P management in Negro C locati 1 paper on P management produced in the benefits intermodation and data. Statistical interests Negro 1 paper on P management produced in the benefits intermodation and data. Statistical interests Negro Constal-Piological produced in the benefits and the material product intermode 1 paper on P management produced in the benefits and the material produced in the statistical and the product of Negro Constal and the statistical produced women in a entropresential advisor interaction and an and applied loggist 1 Constallated women in using P engls for statistical advisors intellations, association and private features. Using the forgits for the banking of fammers (men, women, youth)Policy. Permitter of locally produced P products I produced P products in the product of loggist produced P products I produced produced produced produced P products I produced produced P products	Foundation University (FU)	I. Essing layer duck famera2. Potential duck famera3. Balt und salted egg workor44. Balt dan salted egg processors5. Consumers of duck eggs and (culied) duck mest6. Agricultur Technicians, researchers, leachers and students in layer duck breeding, production, and marketing.	01-Mar-24	28-Feb-26	ONGOING	4,998,052	874,488.00
	Varietal Improvement and Innovative Production of Alfafia (Medicago sativa) to Augment Feed Resources for Dairy Animals	Rapid, inclusive and sustained economic growth	Improving Meeticic production and productivity is to indicate improve forage development and proper apprementation with partness targets, the scale potential learner species for indigation to the second and items in the partness targets and the second special learner species for indigation to the sector and items in the second special learner special for indigation to production systems and using and better quality forage staptishes to Philippine agrit-ecologies and production systems and using a model with the second special special special special special special practices for heritaceous legumes.	Publication: Publish at least one research subplic to scenific journal?elant: NuProduct Production of events (recef process) and stageProcein: English StageTouters Budget Stage 100 (Stage	University of Science and Technology of Southern Philippines Claveria Campus (USTP-C)	Local dairy farmers Livestock industry Research community Local government units	01-Aug-24	31-Jul-26	ONGOING	5,000,000	3,246,629.72
Conservation, Improvement and Production of Central Luzon Native Pig	Project 2 Establishment of Foundation Breeder Stocks of Central Luzon Native Pfg: Project 2.2 Breeding and Selection to Establish Foundation Breeder Stocks	Rapid, inclusive and sustained economic growth	A nuceus sum of native pig with be established, threading objectives will be formulated based on the parameters important to the native pig frames and also based on the requirement of the lection processors. The results of phenotypic and molecular characterization of native pigs in Ptgetd 1 will be toolds will be conducted and the sgerm of mala similar will be established based on will, and of disatory assessment of ejaculate, such as series nucleura and sgerm concentration, multily, and morphology based on the description of Resembloom (2000).	erasonneo coundation herd al PAU Establinheb terefort and selection protocols Produced foundation stocks populations of CL native pig	IPampanga State Agricultural University (PSAU)	Ia. Native pig raisers b. Researchers and development workers c. Students d. Consumers e. Market agents f. Local government	01-May-21	30-Apr-24	COMPLETED	6,354,300	792,385.80
Conservation, Improvement and Production of Central Luzon Native Pig	Project 3: Performance Evaluation of Selected Native Pigs following the Most Common Feeding and Management Practices in the Area	Rapid, inclusive and sustained economic growth	preceder animals from the nucleus form will be tested and evaluated at the multiplier fames based on the reproductive and growth performance.	Neproductive and growth performance data dimproved CL native pigs Tades namemicar barloof or registration at PO Exhibition of multipler fam at PSAU Exhibition feeding and nationare management protocols Tariand di Barmer co-operation so production and management of CL native pigs Exhibition of sensity and the sensity of the sensity of the sensity of the sensity Tariand di Barmer co-operation so production and management of CL native pigs Exhibition of sensity of the sensity	Central Luzon State University (CLSU)	a. Natwe pig raisers b. Researchers and development workers c. Students d. Consumers e. Market agents f. Local government	01-Jul-22	30-Jun-26	UNGOING	4,177,066	1,051,084.34

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
Noval Approachte in African Suinte Feter Obstration (2014) robardisca, Caronica and Provonica robar Tites, MECA ERADICATE ASF (Molecular Epidemiology, Genomic Analysis, Epitopes of Recombinant Analysis, Epitopes of Recombinant Analysis, Epitopes of Recombinant, and Mmrunologic ChAracterization for Total Elimination of African Swine Fever)	Proj 4. Grane Expression Profiles of Immune-Related Cytokines: Highlighting the Potential Role of Callular Import yaganat Local locates of ASF in the Philippines	Integrity of the environment and climate charge adaptation and mitigation	Alloca Daive Faces is slight consigner disease this desses high nortality invariants. There is no measurem and vaccina of the only and you for only to ideoposite allocitat and exposed with. These measurem must be combined withinkin moment of amusis, bescurity in famms, and banning the importation dimet products from affectioe counties. Early detection and diagnosis are could be effective control of disease spread. However, for this bits is succeeded, adequatebloadoxity upport and filtering caltering to disease spread. However, for this bits succeeded, adequatebloadoxity upport and filtering caltering to disease spread. However, for this bits grant and the advective and the ASFV specificalization of the advective of the transmission of the transmission of the advective production and the upper specification of the transmission of the advective of the transmission ASF-shouldes in the Philippines, bip/stogenomic plasmar of ubunching and disease spreaders of the Philippines, bip/stogenomic plasmar of ubunching advective plasmar of ubunching propero bioindigence/plasme plasmar of ubunching advective plasmar of ubunching and the ubunching ASF indexing and an effective explores specification of ASF variants and an import and will be used for the development of ELLS. In order to hubunching strategrade ubunching in the county and unit bio used for the development of ELLS. In order to hubunching is used and the method is plasmar to develop the development of ELLS. In order to hubunching is the transmission of important in the development of LSE. In order to hubunching is used and the method is plasmar development of LSE. In order to hubunching and an advective and the specific development of LSE. In order to hubunching is the county is indexintent and the development of LSE. In the interval the therein control to approximate and an important in the development of local ASF vaccine.	1 Dountide rulative expension twelk of immone-tellete (policines in therabets blood and macrophages stimulatedeth recombinant proteins to autocatable the electri of the host immonespones (ASYM both in initial relations and in in vis distuitable). List of polential (ASY recombinent proteins that recognize ASYV which can be used for future accions and dispositio toothingue development	University of the Philippines Los Baños (UPLB)	1. Outputs from the project will sid government or an actions such as the local impact of Agriculture policynecommendations such as control and prevention strategies against ASF.2 Published data can help scientists in the development of potentialidignostic methods, drug and vaccine candidates.3 Veterimarians will be guided in heir evidence-based decision making in thespidemiological surveillance and implementation of effective control anderadication strategies against Approved diagnostic efforts. Approved reground and control and eradication strategies which will hepliedvate the socioeconomic consequences caused by the ASF outbreak.5. Undergraduate students from the cooperating academic institutions willbe able to learn the laboratory skills and techniques used to conductelated researches in the future.	01-Apr-23	31-Mar-25	2024 ONGOING	16,826,512	5,616,852.72
	Application of the Single-Laboratory Validated Radio- Receptor Assay to Support Environmental Riak Assessment (ERA) on Diguatera Poisoning	Repid, inclusive and sustained economic growth	Ciguates (CP) is a major risk term the consumption served sexicle of tripical field. This gives detained represents a sector product product of the sector taurism and faithing inductive is countries with tripical aref encosystems. It an increasing product that exocutative with tripical aref encosystems are the countries of the sector table of the sector and the sector of the countries of the sector table of the sector production, there detailed are to table the sector table of the solego of micrologial species causing table couldressis (mainty Camberdous sep), then toxin production, there detailed is not table sole to table sector table sector productions, there detailed is not table set to table sector productions, there detailed is not table set to table sector productions, there detailed is not table set to table set to table set to product the sector table of the production are the table of the production and the urgate back to maintain the table of the production and the urgate product table set to table set to table set to table set to maintain the table of the production areas or maximum table to table the the country table area (part of the product on table to table product the country table area (part of the table to the table set to country table are capitable to analyzed FP inclus in set devices of unique comparises the origin of the table to contaminant-tabledown in the table and the table table table table to the devices of unique comparises the table table table table tables are and contaminant-tabledown in the table table table tables to table detection of the AcACC gatelines in maked development for wide are deviced or unique tables the table tables to tables tables the tables tables the tables to tables the tables tables the tables of the tables tables tables tables the tables to tables the tables ton the tables the tables the tables	Policia for Scientific publication see the second	DOST-Philippine Nuclear Research	Bureau of Fabrics and Aquatic resources, Region 6 and Crait Office Provincial and Municipal Agricultural offices of Region VI Health Institutions in Region 6	16-Nov-24	15-Nov-26		12,144,717	8,424,796.00
	Assessment and Innovation in Reducing Yosh Harwest Losses for Charlosed Portifiability and Sustainability in Sardine Flahey in Tawi-Tawi, Southern Philippines	Rapiq, incluave and sustained economic growth	The study and sign of the To-Xinggin of a calk documentation of the III and the Alexan Section of the Section	Alexandrouts, submitted for publication in ISI indexed journal Manual on drying technique Manual on annoting technique Journal Service Service Service 1 Service Indexident 2 Service Indexident 2 Service Indexed Services 2 Age of product Upfer and Smithet Services 1 Service Indexed for UPF Indexed Services 1 Service Indexed for UPF Indexed Services 2 Age of product Upfer and Smithet Services 2 Revision Indexed Services	Mindanao State University - Tawi - Baw Codege of Technology and Oceanography (MSU-TCTO)	Local enail-scale commercial and municipal fibhries state Louis stateholders & consumers LOUis MAFAR Academe	01-Mar-24	28+eb-26	ONGOING	8,013,592	2,839,835.00
	Assessment and Mcbilization of Research Initiatives on Philippine Marine Mammals (PHLMarMams)	integrity of the environment and climate change adaptation and mitigation	In draft, mer are 31 species of marine memory 100 schedenses and the displanging in the Philipphese (Vergonness Philippine marker memories have been varieting. The near excent limited studies have been marking conducted by the Memories Memory Action Schemer Philippine marker memories have been varieting. The near excent limited studies have been marking conducted by the Memories Gasena & A between the Lalocatory of the institute of Enformmental Gasena & Memory and the Memory of the institute of Enformmental Gasena & Memory and the Memory of the institute of Enformmental Gasena & Memory and the Memory of the institute of Enformmental Gasena & Memory and the Memory of the institute of Enformmental Gasena & Memory and the Memory of the institute of Enformmental Gasena & Memory and the Memory of the institute of Enformmental Gasena & Memory and the Memory of the institute of Enformmental and the state of the Memory of the institute of Enformmental and the state of the Memory of the institute of Enformmental and enform 2000b, Unitorhumately, Rese animals are insteady of (1990b de enfor- sementalistics), Parket animals are animals are instead and animal the bloggical Autoenabilities, Hense animals are memory and the black to these bloggical autoenabilities, Hense animals are enfort distribution (i.e., schooling) and philippines comprehensitives (Marky Memory mengalitations, Paulice Memory and the black black before mengalitations and the the the history of the state and distribution (i.e., schooling) and philippines comprehensitives (Marky Memory mengalitations and the schooling endowed and the state and the state and the state of the schooling comprehensitive (Marky Marky Memory mengalitations and the schooling endowed and the schooling schooling black black mengalitations in the light of our changing environment and continuing biodinership sea.	End of update/Products/detestment Profile Taston Stratt and Calauit Island Enhance the Proper of Update/Products/detestment Profile Taston Stratt and Calauit Island Enhance the samples collected from standed marine mammals Padiotation/N taston of Updatestment Profile Taston Stratt Padiotation/N taston of Updatestment Padiotation Padiotation/N taston of Updatestment Padiotation Strate (personnel to investory and pertinent samples collected. Placet and Petnomhyle/Pathrenship with LGUs in southern Taston Strait, Negrost and Calcular Utastons of Calauit Island in Patianan/Pathrenship with BFAR, DENR and Petnomhyle/Pathrenship with LGUs in southern Taston Strait, Negrost and Calcular Utastons and a classic Island in Patianan/Pathrenship with BFAR, DENR and Calauit Islands and the used as input to policy conservation of Calauit Island in Patianan.	University of the Philippines Diliman (UPD)	Select Local Government Units (LGUs) (Regions 4B & 7) Locals communities and Indigenous People (IPs) Fisherise and Aquatic Resources (BFAR)Department of Environment and Natural Resources (DENR) (Regions 4B, 7)	01-May-22	30-Apr-24	COMPLETED	5,000,000	643,062.93
	DeepFish 2.0: Mesophotic Depth Fish Surveys using an ROV-mounted 360-degree Imaging System	Rapid, inclusive and sustained economic growth	The satisfield of high-resolution underwater carenas that are mounted on open-sourced Remotely openheid Ladwards Workies now all who regards and nos relegant the abundance sources provide babe the satisfier of the satisfier of the deep divers, As a platform, the ROV has the advantage that is capable of hovering above the seatoor all excision controlled by the openand from a bookies suitable while and the a carena angle can all to be provide qualitative and quantifiative information for fish in messpheric ecosystems. Bas totals will be onclusted in Verden and parameters are all the understate mount and the sate angle angle hadron densities and parameters are also be understateen Calatagan, Batangas, Apo Reef National Park, and Bohnus, Pangasman.	PAcificator: I separate I separate Pieto T Villey Model or Copyright for 300-degree carrers set up and survey protocol 21 ROV-hazad Metaphoto: Fash Survey System (cree for conventional carrers and one for 30 do degree carrers) (Model 30 degree carrers) and upper respective do degree carrers) (Model 30 degree carrers) and upper respective dogstep, to 40 m) due to Initiations of camera canings) Technical transing and knowledge on the use of the ROV system for at least 5 researchers	University of the Philippines Diliman (UPD)	Marine science researchers in the different Philippine universities LGUs and NOCs tasked with monitoring the marine ecosystem	01-Jun-24	31-May-26	ONGOING	13,939,174	4,412,587.00
	Developing Sustainable Macroalgal Feeds to Enhance Production of Sea Cucumber Culture	Integrity of the environment and climate change adaptation and mitigation	The corresploation of weld associations tools has affected the interfaced many failing communities. At this distance acrothese points, take deharmannet efforts and aquacitum programs are similated. However, the dependency of statebary many and control has not include a set bare transition appendix takes the set of	End of the Porgum Oulpula-Broticutal Ne end of the project, it is anticipated that an alternative/supprement ancoraging led for the scalar and S. d. Antone will be developed-multificant lackase (VKF) are characteristic, and trached constraints presentations in projection and the scalar scalar scalar scalar scalar scalar scalar end of the scalar scalar scalar scalar scalar scalar scalar end scalar scalar scalar scalar scalar scalar scalar end scalar scalar scalar scalar scalar scalar scalar end scalar scalar scalar scalar scalar scalar end scalar scalar scalar scalar scalar scalar endoting scalar scalars installing scalar scalar scalar endoting scalar scalars installing scalars endoting scalar scalars installing scalars endoting scalars and the scalars installing scalar endoting scalars and endoting scalar scalar scalars installing scalars endoting scalars and endoting scalars endoting scalars endoting scalars endoting scalars endoting scalars endoting scalars endoting scalars endoting scalars endoting scalars endoting scalars endoting endot	University of the Philippines Diliman (UPD)	The research/sicentific community, as results generated from the abovernet/incest studies and observations will open doors for further researchable areas on sublandle main/cluther feeds and practices and fishery stock management (e.g., culture-based resultsing and stock privations and fishery stock management (e.g., culture-based resultsing and stock privations of the stock privation of the stock privation of the stock sites LOU and local resource managers will have science-based information to improve sea cucumber fisheries management	01-May-23	30-Apr-25	ONGOING	4,988,589	1,339,878.23

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of	Total Project	2024 PCAARRD
									2024'	Cost	GIA
	Development of qPCR Assay for the Detection and	Rapid, inclusive and sustained	Harmful align blogger (MABr) caused by disoflagellater of the family Kareniageae pore	Publications	Central Luzon State University (CLSU)	Academic and research institutionsBFAR monitoring	01-Aug-24	31-Jul-26	ONGOING	5,000,000	3,099,999.00
	in Selected Coastal Waters of Central Luzon	economic growar	significant threats to marine ecosystems and human health. Understanding their			personneirisin ianning operatoricidos					
			spatio-temporal distribution and genetic diversity is crucial for effective management and mitigation strategies. In the Philippines, monitoring programs	At least 2 International Scopus Indexed Publications							
			has heavily relied on morphology-based identification. However, this is								
			lead to high levels of technical bias and inconsistency. Therefore, the	Presentation in local and							
			proposed project aims to develop a qPCR assay for quantifying the	international conferences							
			coastal waters of Central Luzon. This type of molecular technique requires a			A					
			laboratory established cultures to create a species-specific primer and target the harmful species using the kareniacean cultures established from the	Products		Academe					
			previous project, this limitation can be addressed. The developed qPCR assay								
			Central Luzon with a high diversity of kareniacean dinoflagellates.	Culture of							
				small kareniacean dinoflagellates species Protocol in							
				using qPCR for identification of kareniacean dinoflagellates							
			As part of the priority projects under the Natural Resources and Environment R&D Agent of Updated Harmonized National Research and	EAC materials on kareniacean dinoflagellates							
			Development Agenda in Accimulture Accurate and Natural Descurrence (2000) 2009) of DOST DCAADED, the	Infographics							
			proposed project will provide valuable information in support to the Biodiversity R&D program which	about national dationagematica							
			will specifically focus the genetic diversity and temporal abundance of kareniacean dinoflagellates in marine ecosystem using gPCR assay.								
			, , , , ,	Density and Services							
			This study aims to establish a high-resolution method to look into the diversity and quantification of the kareniacean dinoflagellates in the three	Training of							
			main coastal areas of Central Luzon which will assist the country€™s monitoring	fisheries technician and BFAR monitoring personnel in the use of qPCR in							
			method, BFAR will efficiently monitor and understand the occurrence of harmful	4							
			kareniacean dinoflagellate and issue early warnings to local stakeholders to	Undergraduate Thesis Students							
	Diversity, prevalence and virulence of the Ostreid Herpesvirus-1 (OsHV-1) to enhance sustainability of	Rapid, inclusive and sustained economic growth	significantly to the fisheries sector in the Philippines is high. Although the	expected, including but not limited to: diversity of ostreid viruses in the Philippines, genome	University of the Philippines Diliman	The project will benefit various stakeholders of the ovster industry Consumers will have access to safe	01-Apr-24	31-Mar-27	ONGOING	37,000,000	15,200,559.00
	oyster production in the Philippines (VirOys)		industry has started picking up in recent years, many aspects of its commercial production are with the improved. This includes undestanding the threats and	characterization of ostreid viruses, factors driving the virulence of ostreid viruses,	(and virus free oysters.Oyster growers will be guided					
			risks that may be experienced by the Philippine cyster industry, such as	interactions, among others.		in managing environmental risks factors OsHV1.					
			potential diseases causing massive mortality and low-quality produce. Some of these threats include the Ostreid herpesvirus (OsHV-1), which significantly	The project will also be able to come-up with protocol guidelines for the 1.) isolation, 2.) rapid detection, and 3.) possible methods to mitigate the effect or control of infections Patent:		I nis will prevent mass mortality events which will affect their livelihood. Ovster batcheries will be able					
			affected many industries in Europe, America, and some parts of Asia but has never been reported and investigated in the Dhilipping due to both a but	N/AProduct: Improved techniques and protocols on in detecting the virus using rapid assay		to refine the prescribed hatchery protocols to					
			to detect and monitor its presence and prevalence. Initial results of the DOST	farms.People: This research will protect the consumers and growers. It will also lead to a		account for OsHV1. This will reduce mortality and					
			PCAARRD-funded project entitled SCI2SOS, however, revealed the presence of microvariants of these&nbso: viruses in some	more resilient oyster industry, safeguarding food security and the livelihood of families dependent on oyster growing Place: Active collaboration between communities of overlas		able to propose and implement appropriate policies					
			of the oysters collected in both the wild and hatchery settings. This proposed	growers, national agencies, academic institutions, and industry partners in collating data in		guided by the results of this study.Government					
			study then aims to understand the diversity, prevalence, and virulence of oyster-infecting viruses and their	occurrence or OsHV-1. The project will also further strengthen the partnership initially established during the		agencies will have the capacity to monitor the					
			microvariants and hosts in the Philippines, and test the susceptibility and	SCI2SOS project between the private, NGA and academe, and even expanded it by		educational institutions and DOST-					
			industry in the Philippines. It will use a combination of culturing, in	The Laboratory to be built in BFAR NFBTC will help enhance and build the capacity of NGAs		PCAARRDHigher educational institutions will be					
			vitro assays, -omics approaches, and deep learning to understand the ecology and dynamics of the virus and the potential approaches to miticate and lessen	and local SUCs in the use of molecular methods, and can even be a training and demo hub for the technologies to be developed Policy; Since there are no studies vet of viscous in the		able to contribute to the body of knowledge specially					
			its effects in the local setting. This collaboration will also strengthen	Philippines, results of this work will help in crafting of management and strategic plans to		population, specifically Crassostrea iredalei					
			partnerships and direct translation of research to developmental settings with the UP Diliman and UST leading the research and the NGA BFAR NBFTC and the	avoid or lessen spread of these parasites in Philippine oysters. Specifically, this will aid in crafting policies regarding translocation of virus free spats and broodstocks which is one of							
			private industry ASIN Inc. directly benefiting from the results of the study.	the gaps identified in the oyster roadmap.							
			players.								
	Enhancing production of sandfish. Holothuria scabra	Rapid, inclusive and sustained	Having taken off from the NICER Sea Cucumber R&D Center Program,	Publication: at least 1 paper published in recognized scientific journals; Ä 2 technical papers	Mindanao State University (MSU-	LGU.Ă. local communities.Ă. fisherfolks.Ă.	01-Jan-24	31-Dec-25	ONGOING	5.000.000	2.910.048.00
	(Jaeger, 1833) through pond culture and sea pen	economic growth	under the Project, Refinement of Culture Production of the Sandfish Holothuria	presented in scientific conferencesPatent: Manual for the culture of sandfish in fishpond; and a schanced version of the manual on community-based sandfish farmingProduct;	Naawan)	Peoples organization, Students, Researchers,				-,,	-,,
	farming		laboratory facilities, and also grasp valuable knowledge and experiences that can	Better quality of farm produced thru proper post-harvest, handling and processing;Å		national line agencies, Ä, Academe, private					
			be of use to take the project to greater heights to help address the gaps in sandfish pond culture and community-based grow-out, and the decline of sandfish	improved protocols on sea ranching with local community, A, A, Natural stocks of sea cucumber enhanced; and mass production of sea cucumbers in fishpondPeople; I GUs as		Investors					
			wild stocks. From the refinement of culture production, the project will move	local partners trained on sandfish production and post-harvest technology, including at least							
			forward to culture of the sandfish in earthen ponds. By shifting the focus from mass producing in ocean nurseries to mass producing sandfish in pond and sea	4 neighboring LGUs.A. A. Thesis students in both undergraduate (4) and graduate (2) students will be assisted by the project in the Å, conduct of different experiments on							
			pens, can lead a significant breakthrough in sea cucumber aquaculture, especially	sandfishPlace: partnership with at least 2 HEIs and with the local government units within							
			Developing protocols for culture and sandfish in earthen ponds, experiments to	cucumbers							
			determine best suited feeding techniques for grow-out, and options for viable								
			The NICER Project witnessed that results were better with an engaged								
			community with this, the project will strengthen community participation and engagement since science cannot be applied without the community. To further								
			supplement their livelihood, post-harvest and processing trainings will be								
			Investigation of the state of t								
			coastal communities. The Project will continue to conduct								
			alleviate the declining population of sandfish in the wild.								
			As the Niche R&D Center for Sea Cucumber, we received Certificate of Commendation as €œInnovation Champion in Region 10€ during the DOST National								
			Innovation day in Region 10, and as €œOutstanding Niche R&D Center€ during the								
			DOST Science for Change Program summit €" Mindanao Cluster.								
	Eucheumatoid Seaweed Farming Innovation in the	Rapid, inclusive and sustained	The Philippines has been a significant producer of seaweeds for over five decades	Publication: Papers in peer reviewed iournals-8nbsn-8nbsn-8nbsn-8nbsn-8nbsn-8nbsn-8nbsn-	Mindanao State University - Tawi-Tawi	Seaweed FarmersFaculty and	16-Aug-24	15-Aug-26	ONGOING	4,999,951	2,493,902.00
	Sulu Archipelago (Seawinnovate)	economic growth	primarily driven by global demand for carrageenan. Despite the substantial	Gender Perspectives in the	Oceanography (MSU-TCTO)	personnelProvincial and Municipal					
			declining production due to genetic diversity loss and ice-ice disease persist.	archipelago-ånbsp;ånbsp;ånbsp;änbsp;änbsp;änbsp;änbsp;		Agricultural Officers					
			Moreover, women engaged in seaweed farming often encounter gender disparities, bindering their opportunities and financial well-being. To comprehensively	Sustainable Seedling Production in Seaweed Farming: Lessons from Multiplier							
			address these multifaceted issues, we propose a two-fold approach: Firstly,	Farms-							
			we aim to enhance the production system by evaluating the viability of multiplier farms in sustainably supplying quality seedlings and testing the	Enhancing Seaweed Yields with Kappaphycus sap (K-sap)Crafting of an investment bulletin for the							
			effectiveness of Kappaphycus extract	multiplier farmPatent: K-sap production processProduct: K-sapProtocols on K-sap use in							
			comprehensive socio-economic analysis, focusing on both traditional and	archipelago People: Trained the							
			multiplier farms, from a gender perspective to assess if the multiplier farm will improve gender inclusivity. We will	following:-ånbsp;ånbsp;änbsp;änbsp;änbsp;änbsp;änbsp;änbsp; 5 faculty-ånbsp;änbsp;änbsp;änbsp;änbsp;änbsp;änbsp;änbsp;							
			establish multiplier farms in two major seaweed-producing municipalities of	10 undergraduate students-							
			www.rawn.comass.propagate.raboratory-generated seaweed strains. Additionally, we will assess the cost-benefit of these farms to ensure sustainability.	roresearchers on GAD Keamp;D and;							
			Furthermore, the multiplier farms will serve as a testing ground to evaluate the efficacy of Kappaphycus extract								
			or K-sap as a sustainable alternative to conventional inorganic fertilizers. To gain								
			a comprenensive understanding of the challenges, perspectives, and experiences within the seaweed farming sector, we will conduct surveys, key informant								
			interviews (KIIs), and focus group discussions (FGDs). We'll utilize a	. &nhen &nhen &nhen &nhen &nhen &nhen .							
			Analytical Framework for Gender Analysis. These methods will be applied in both	30 farmers on use of K-sap as fertilizer and best							
			regular seaweed farming communities and among participants in the multiplier farm project, ensuring equal representation of women and men farmers	practices in seaweed farmingPlace: -ånbsp:ånbsp:ånbsp:ånbsp:ånbsp:ånbsp:ånbsp:							
			Additionally, we will interview children who assist their families in seaweed	MOAs with MSU Sulu, LGUs, MAFAR and MENRE							
			multiplier farm can enhance gender equity. This approach enables	ånbsp;Policy:-ånbsp;							
			us to compare insights, identify commonalities, and analyze socio-economic dynamics and gender roles within the seaweed industry. It ensures that research	Science-based information as results of the project that will serves as inputs in crafting policy related to seaweed farming							
			findings represent diverse voices and perspectives within the community.	· · · · · · · · · · · · · · · · · · ·							
	Feasibility study on the captive breeding and rearing	Rapid, inclusive and sustained	The sardine species, S. lemuru, is an important food fish commodity and the management of its stock is	Publication: Patent: Product: People: Place: Policy:	Department of Agriculture - National	The target beneficiaries are the fisherfolk and	01-Sen-24	28-Feb-24		1,360,000	1,360,000.00
	of Bali sardinella (Sardinella lemuru) in the	economic growth	a top priority. Part of the identified efforts to support resource management is the development of culture		Fisheries Research and Development	aquaculture operators who would benefit from the	2. Jop 24			.,	.,,
	Philippines		numerous exploratory and experimental trials over a period of years and continuous funding for a		Institute (DA-NFRDI)	development of the seed production technology, the					
			successful development. As a critical venture, investigating its achievability is crucial to ensure that			policy makers involved in sardine stock management and lastly, the sardine industry or o					
			comprehensive review of available resources on the successful conduct of breeding and rearing of			whole.					
			sardines, which will serve as the basis for the development of a hatchery program for S. lemuru in the country.								
	Field-testing of Laboratory-reared Kappaphycus and	Rapid, inclusive and sustained	The project being proposed aims to expand a similar	Publication: Two (2) research papers: local or international publication (peer-reviewed)	Batangas State University (BatState-U)	Coastal communities in Lobo, Lian, San Luis. and	01-Jan-24	31-Dec-25	ONGOING	4,996,736	2,585,868.00
	Eucheuma spp. in Potential Farming Sites in	economic growth	initiative in Region 4A, particularly in Batangas, where seaweed farming is also a major activity of the coastal communities. Pre-selected fast-growing cultivars from PSI LMSI shall	IEC Materials (e.g. brochure, flyers, video)Patent: One (1) Utility Model of seaweed farming designProduct: One (1) biological database of laboratory-reared seaweeds		Tingloy					
	Detanges Province (FLake Project)		be utilized as seedstocks for the artichlichment of commented experimental plots in relacted riter in	One (1) KAP databasePeople: Three (3) Research Personnel		and Tinglov					
			Batangas. This is to mitigate the declining production of seaweeds in Batangas	between Batangas State University and Palawan State University		a,					
			Province, identification of new farming sites could be one of the immediate	One (1) MOA between Batangas State University and four (4) coastal community/LGUsPolicy: N/A							
			from the branch and spore culture. The genetic variability in the newly								
			generated seedstocks from spores is hypothesized to improve the quality of the cultivers. In addition, to have a successful introduction of seaweed farming								
			among selected municipalities in the province, socio-economic profiling of the								
			of the selected coastal communities of the introduction of seaweed farming as a								
			possible alternative livelihood and source of income.								

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
	Finheries and Reproductive Bology of the Gold-lip Pearl Oyster Princada maxima (Jameson, 1901) in the Philippines	Rippi, inclusive and sustained economic growth	Tagged as the pearl of the Orient, the Philippines is a traditional source of nutriting pearls from dame interfered by Balged comparison of the advancement of technology, around local companies have extended into the callure of pearl oystem is score of the pearls waters of Palanean and Tauk. The extended into the callure of pearl oystem is score of the pearls waters of Palanean and Tauk. The extended is the tautor of the tautor of the pearls of the pearls of the tautor of the tautor of a distribution. Usingly, repedication, benefing, familing, and point pearls of the tautor of the tautor grounds of P. mainta were located in Sub between the Philippines are the holdward from dame of callured memory and induced to the tautor of the tautor of the table of the tautor of the tautor of the tautor of the special of callured memory and induced to tautor of the special of the table of the table of the special formulated. Thus, it is necessary and needs urgent augmentation to render research agas and provide on the provide induced to the table of the callured to biology of the failed of the failed of the failed of the table of the table of the table of the table of the table and the provide induced to callure and the table of the table of the table of the table of the table formulated. Thus, it is necessary and needs urgent augmentation to render research agas and provide and the portal memory of the causity flagstock the biology aludes concluded in the memory of the provide information the ut al terve as the base of the land research agas and provide on the improvement of wild render, growth patters, and table the handement programs required to regional as a provide formation the ut al terve as the base of the function of the table of the improvement of wild render, growth patters, and table the handement programs.	Producte(20)ce (1) Protocol for reproductive analysis of P maximufficionatedge Production (Floristies Police Constructions of Production analysis) backlands(Police) (1) Scientific Pablication (1) Constructions of Production analysis) and the Policy of P. maximuf Paeling Holdsociety (1) Constructions and Paeling Constructions (2) Constructions and Holdsociety (2) Constructions and Paeling Constructions (2) Constructions (2) Constructions (2) Constructions (2) Construction	University of the Philippines Visayas	(1) National Government Aguncies Personnel (e.g. BFAR)(2) Local Government Units(3) Parthared Universities :(4) Fisherfolk(5) Researchers	01-Aug-24	31-Jul-26	ONGOING	4,999,998	2,735,873.00
	Impacts of Marine Heatwaves in select West Philippine Sea Reefs	Integrity of the environment and climate change adaptation and mitigation	This study is part of the program entitled Marine Heal Waves in the Western Pacific Detection, Mechanism and The Intropacts on the Cont Real Ecosystems under the A-wala Joint Rearch Program. The lead Principal Investigation (P) is D.S.E. Antonga Witasathya Konn Indonesia. He's as negative the lead Principal Investigation (P) is D.S.E. Antonga Witasathya Konn Indonesia. He's as negative Data and the spectra of the lead of the temperature of the state of the pactimeter. Then, Schall Ocean Observing System and (PCC, He's experienced in terms of investigating the upper ocean healing ecologist and the proponent of this project.	Information on the MMV occurrence in the western Pacific in broader-scale and finer-scale in the Philippine Antonesia and Japan Information on the mechanism of MMV generation in the Philippines, Hodowesia and Japan Coral reef monitoring alles in West Philippine Reefs, Edu, Indonesia and Okinawa, Japan Standardized coral beaching monitoring protocol	University of the Philippines Diliman (UPD)	Scientists and students (UPD MSI, Batangas State University, Dionegoro University, Tohoku University) and Iocal stakeholders (LGU Bolinao and Anda, Pangasinan, Zambales, Batangas and Puerto Galera) and, NGAs (DENR and BFAR)	01-Nov-22	31-Oct-25	ONGOING	13,251,380	5,035,107.07
	Iron, Nickel, and Nirate from Aerosol Deposition and their influence on Growth and Toxin Production of Harmful Algal Bloom Species (RON-HABs)	Repid, inclusive and sustained economic growth	The eccurrence of harmful along biocome, (Held) cancer for marked along biocome, (Held) cancer for marked biocome, prove the test in the to (Held) cancer for marked bioses due to fish kill area estimated to be PhP 21 a million in Mey 200 and PhP UP (million in June 2011). The most deventating the second second second second second second second second and prostations have been biocopically into light by cancel means that the fisher the second second second second second second second and prostations have been biocopically into light by cancel means the observation and prostations have been biocopically into light by cancel means the observation and prostations and the deviced balance and interactions of multitude of factors, e.g. temperature, endrophication, predominant physicipations have, and mark means all alow of an exploring means of multitude of factors, e.g. temperature, endrophication, predominant physicipations have, and mark means all alow of an explored means of multitude and mark means prediction and the deviced means of the sections the section of the section and the section of the means of the section of the section of the section of the section of the the section of the section of the section of the section of the section model (HB sections namely Productions the typication takes the section of the section of the section of the section of the section and the section of the section of the section of the section of the section model (HB sections namely Productions the section of the section of the trace metals like on the section of the section of the section of the section and the section of the section of the section of the section of the section and the section of the section of the section of the section of the section and the section of the section of the section metals for applica by physicipation, and ensures the availability of the section metals for the biominesity of the section sharping the resumence of these biominesity of the section sharping the resumence	Foldutions: membra will be used for publications (estimated 3) and for presentations in conferences (estimated 2-3). CF Products: Contribute Information into the H48H4b Homatrice System (CS) FFCWHRD Intelexed projet heated by Dr. ATV/Aisguez) Fold and Sarvices: support for graduate students and researcherg. C graduate students, just 2 and will and an exact and the H48H4b Homatrice System (CS) FFCWHRD Intelexed projet heated by Dr. ATV/Aisguez) Fold and Sarvices: support for graduate students and researcherg. C graduate students, just 2 and will and ther H48H Fold and Sarvices: Support for graduate students and Processing Sarvices with AFRO) and community comparisons in the Bahman-Anda municipalities G_{CS} Gold, Come up with recommendations in drafting magnitudines pertaining to air pollution and aerosci quality improvement	University of the Philippines Diliman (UPD)	The project will benefit various stakeholders from academic sector communities living close to areas with persistent or intermittent occurrence of harmful agla blooms. The scientific community will work as well as through increasing the number of researchers and scientists that will earn heir degrees resulting from the research support provided by the project. The community in general factors contributing to the accurrence of harmful agla blooms in coastal areas that provide their main source of livelihood.	01-May-24	30-Apr-26	ONGOING	9,792,496	5,708,098.00
	Jellyfish Ecology and Envenomations Project (JEEP) Phase 2	Rapid, inclusive and sustained economic growth	Bac july/linker are the most is actinuated 20240 people die of jeftyfish stings with manne available and actinuated 20240 people die of jeftyfish stings stings also here a significant inread, particularly on the tourism advaty. The properiod EEP Phase 2. working of the fine-scale distribution and seasonality of loss jeftyfish Chinose and stops also of the minimum and account standards from the previous project. This capacitation of the minimum and account standards minimum loss project. This deaths due to enveronationality the data minimum loss project. This deaths due to enveronationality the data minimum loss project.	Pablication: Posters, inforgaphics, and social media postings is inform the public on safety presentations and is and address. With reduced lifetiols of & groupsouth [DN distancess, address information of the safety of the safety of the safety of the safety of citizen scientistics form a jellyfah monitoring team-Place. MOU with host load governments is entit the participation of health and control citized/safety. Palely advice on the management of box jellyfah risk and enveronmation.	De La Salle University (DLSU)	Coastal residents, tourists Tourism operators Fishers and their families	01-Dec-24	31-May-26	ONGOING	4,995,935	3,398,096.00
	Macronutrient, Carbon Cycling, and Aerosol Deposition: Impacts on Phytoplands Community Structure and Tosin Production of Harmful Algal Blooms (Trace-HABs)	Integrity of the environment and climate change adaptation and mitigation	The project all lock inis the interactive effects of various growth flactors (e.g., light intensity, improtative, more-and microarchiter labelity) on the occurrence and lockity of Areadonium and Pryotiknik lock in the major able in the Philippiers. Bulkas in Pregulations and Canadola Bay the boots have been projected in these aller where coatable communities also rely on fabres as a major source of locd and locker. The project results are expected to benefit coastal communities in the study area as well as the Philippike population, is general.	Product Product - Anometryphonoun/Information regarding Interactive effects of taken metals with other grands factors of IV48 Monitorial Program for trace metal-defined digal cell culturing conditions Prople and Darvices: Trained persone in metalionics and taken metal biogeochemistry (Including all 3 mesanch all flat will be hired during the project duration) of the job traineration (about 5 per year) Addition to the metalionics and taken metal biogeochemistry (Including all 3 Addition to the individual of the project duration of the project of the project duration) Addition to the metalionic and the project duration of the project of the project duration of the project of the project duration of the project of the project of the duration of trappeneration) -Papers in rulinoid and international conferences (estimated 1 per year) 42-Contanties contains (estimated 2.4 per-reviewed articles for the duration of trappeneration) -Papers in rulinoid and international conferences (estimated 1 per year) 42-Contanties contains (estimated 2.4 per universe) -Papers in advised and international conferences (estimated 1 per year) (3) allocations reliabilities for takes metal-defined algal cultures -Papers project with Sattering - Advisor they the Adverse Sincia - Network with Adverse Sincia - Network with Adverse Sincia	University of the Philippines Dilman (UPD)	General Public Coastal Communities Academic/Scientific Community	01-Jun-20	31-May-24	COMPLETED	12,508,077	1,568,505.85
	Pitoting Sea Cucumber Fiharies Management through Species-Specific Size Regulation and Sustainable Trade in Selected Areas in Mindanao	Repti, inclusive and sustained economic growth	See accurate provide livelihood and food to the economically depined casafal families in Mindana's howers, this filtering is already case of conservict and the can carb it 6° 73 bg days of amalter sizes methan value to ward sizes for an analysis of the size of the size of the size of the size of the case of the 1° 73 bg days of a market sizes methan value to ward sizes for an analysis of the size of the size of the size of the size of the size of the size of the size of the size of the size products. Cool in testing on expects and sizes. The havy exploration a new more size of the size of the size of the size products. Cool in testing on reseture the test for the size test and sizes. The size products cool in testing on reseture the size of the size size of the filters. Moreover, on matel size effortament implementation. Specific matagement are an analysis of the size o	PAbliation: Papipersphare presented in advantite fora too papersphare for the solution foral Paters IN/Portuits: NAPeopties Paters IN/Portuits: NAPeopties Sapported how Treats studentsA. Sapported how Treats studentsA. Paters IN/Portuits, Regional BFAR offices/Policy: 2 and names	Mindanao State University (MSU- Naawan)	Sea cucumber gatherers/fishers and processors LGUa BFAR thesis students	01-Jan-24	31-Dec-25	ONGOING	4,991,154	2,535,844.00

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31, 2024'	Total Project Cost	2024 PCAARRD GIA
	Population Genetics and Molecular Characterization of Pearl and Other Using Muttigene DNA Analysis	Repid inclusive and sustained economic growth	The Philippine boats a remarkate diversity of system, including pearl and winged system (Phictaba sep, and Phies sep), and winasc commonstally important system that lies including the system (https://www.including.com/sep) and winasc commonstally important system that lies including the system, and the system of t	End of the Proyet Output/Phalacomfight least 2181 - Indexed publications: (1) intercluid diversitestication and (1) operation genetics of point and other commonship important options among on human participant (1) options and the provide project options of summarized and the Among and the Among and the Among and the Among and the amproperty rights for the data to be determined from the project option of the amproperty rights for the data to be determined by the among and the amproperty rights for the data to be determined by the among and the amproperty rights for the data to be determined by the among and the amproperty rights for the data to be determined by the among and the amproperty rights for the data to be determined by the among and the amproperty rights and the among and the among and the among and the commonship and the among among and the among and the among and the among and the among among and the among and the among and the among and the among among and the among and the among and the among and the among among and the among and the among and the among and the among among and the among and the among and the among and the among among and the among and the among and the among and the among among and the among and the among and the among and the among and the among and the among and the among and the among and the among and the among and the among and the among and the among and the among and the	Itolo State University of Fisheries Science and Technology (ISUFST)	Local fisherkik, fisherkes managers, resource planners (from LOLK), DENR, BFAR, and people's organizations), academics, and researchers (local and dobai), contituing to improved cyster management and sustainability.	01-Aug-24	31-Jul-26	ONGOING	5,000,000	3,684,476.00
	Prevalence and Genetic Diversity of Cetacean motiliwrus (CeMV) in Cetaceans Stranded in the Philippines	Repid inclusive and sustained economic growth	The project generally aims to scene ostocars in the Philippines for declaration inclusions (CAM) and investigate the genetic develop of CAM and investigate on deposited predict sequences in international databases. The expected findings have significant implications to the conservation and management work in the Philippines, which is a hotopart for manner mammal diversity in the database of the sequences in international databases. The expected in the Philippines, which is a hotopart for manner mammal Sharing Network (PMMKN) and Burasu of Theories and Aqualic Resources (BFAR). Department of Agiculture CAM) and is hotopart with the declaration databases (PMMKN) and Burasu of Theories and Aqualic Resources (BFAR). Department of Agiculture CAM) and is hotoparticle with the declaration databases (PMMKN) and Burasu of Theories and Aqualic Resources (BFAR). Department of Agiculture CAM) and is hotoparticle and the declaration databases of the analysis of the comparison of the second second second second second the Philippines, and the declaration databases of the matrix mammals in Philippine Waters. These are all deemed beneficial for manne amatrix mammals in Philippine Waters. These are all deemed beneficial for manne limited by geographical boundaries.	Publications Publications Additions of manacospie (2) Additions of the additions Additions of the additions of the additions Additions of the additions Additions of the additions Additions of the additions and parallel Additions of the additions additions Additions Additions additions Additions of the additions additions Additions additions Additions additions Additions additions Addition	University of the Philippines Diliman (UPD)	Researchers (e.g., microbiologists, geneticists) and government agencies (DOH, Dob Upgraded metris mamorial sease repository. City and provincial veterinarins under BFAR or CLOB and Fipino and graduate audents hat will use the training manual and will atted the workshop on advanced medical management of strando calculations for detecting viral different and training manual BFAR or CLOB and maintains under BFAR or CLOB and members of PMMSN, and AMMSN that will use the manual dealing the provincial- dealing the process for sharing of expertse and transport of issues for sharing of expertse and transport of issues for sharing of expertse and program. Department of Health (DOH), and Department of Science and Technology (DOST) that will use the developed method for monitoring CaM/ in Philippine waters.	01-Apr-24	31-Mar-26	ONGOING	5,000,000	3,703,165,00
	Reef Imaging and Monitoring (RIM) Project	Rapid, inclusive and sustained economic growth	Despite a manical decline in the conclusion of Philippen energic web heat declared, here is all no here the second secon	Publications: Indexide for the assessment and molecting of cost refer, 30 other houses of Update protocols for the assessment and molecting of cost refers (have and publication protocols the assessment and molecting of cost refers (have and Pertnerships: The proposed project will form part of he origoing and costinuing collaboration on oriel molecting between DLSU and the load government of Lian, and the Tubbataha Management Office on reef monitoring.	De La Salle University (DLSU)	Field personnel of academic institutions and national and local government agencies involved in reef monitoring, coastal management, and marine conservation.	16-Jan-24	31-Mar-25	ONGOING	4,999,948	4,999,948.00
	Refinement and pilot testing of technology for the White Teatifs Holoburia succoging (Cherbonnier 1980) hatchery for sustainable production and adaptive management	Rapid, inclusive and sustained economic growth	The project was born out of MCERS Bas Counter F & AD Center Project 31 mightermittation Microano State University at Isaana, which was titled "Development on Marculative Endowsky and Stock Enhorsement Protocol for the state of the production spanning occurrences of male and female breeders during induced production spanning occurrences of male and female breeders during induced production state of the state of the state of production for the state of the state of spheric non- sessition at the state of the state of the state of the state of spheric on the state of the state of the state of the state of spheric on the state of the state of the state of the state of spheric on the state of the state of the state of the state of spheric on the state of the state of the state of the state of the state of spheric on the state of the state of the state of the state of the state of spheric of the state state of the state of the state of the state of spheric of the state state of the state of the state of the state of spheric of the state state of the state of the state of spheric of the state state of	Paletatoric Three technical pages presented in scientific forums and Three submitted in SciputalSI Paletation Distribution Parketine Three Advances of Historium Stackage (and the Science Stackage) advances of the Science Stackage (and the Science Science) and the Science Science Science Science (and the Science Science Science Science Science) advances of their Advances and the Science Science Science Science Science (and the Science Science Science) advances of the Science Sc	Mindanao State University (MSU- Naawan)	This is a science-based project which aims sustainability and obsecurity for the benefits of various stakeholders. Faiherfolk and peoplek/s_v_so organizations Local government units Academic and research institutions Researchers and students	01-Jan-24	31-Dec-25	ONGOING	4,992,786	2,450,425.00
	Reproductive Biology and Product Development in Rainow Sardines, Dussumieria sp. (Teleostei:Clupeidae) from selected Marine Habitats in Western Visayas	Rejići inclusive and sustained	The fine-syster project aims to re-evaluate existing information on the productive biology of motions watches. Descussions app. to support fish conservation efforts by the load costal clies and manipative bordening and planamocalitic products with andress callers as an emain project set of (Enerthy used the fine sources in the region. Specifically, this project will (1) which the resources in the region. Specifically, this project will (2) information of the sources of the region of the sources of the sources of the sources of the sources of the resources of the region of the sources of the sources of the sources of the resources of the sources of the	Publication: Sequer of Sindered publication: At least one (1)A research article on the reproductive biology of anabox services and out (1) means on articles on product development). For the biology of anabox services and out (1) means on and hung orgend orgens, minimum body use at matching, see ratio, Recurdly, and length-weight reliaforms). For product development of the services of the means of the services of the promoting conservation and efficient to use of products on of the rankow sardines. So promoting conservation and efficient to use of products on of the rankow sardines. So Parket. 2 holds not protein to the disposition of the rankow sardines and promoting conservation and efficient to use of products on of the rankow sardines. 2 holds not protein to use of products on the rankow sardines and products on of the nankow sardines 2 holds. The hard services are the services and the services and the services 2 holds. The hard services of the nankow sardines and all to the nankow sardines. 2 holds. The hard services of the nankow sardines 2 holds. The hard services of the nankow sardines 2 holds. The nankow sardines 2 holds. The hard services hard services of the sard services 1 harding services of the nankow sardines 2 holds. The hard services hard services and the services 2 holds. The hard services hard services hard services 2 holds. The hard services hard services and the services 2 holds. The hard services hard services hard services and the services 2 holds. Charge services hard services hard services and the services 2 holds. Charge services hard services hard services and the services 2 holds. Charge services hard services hard services and hard services 2 holds. Charge services hard services hard services hard services hard services 2 holds. Charge services hard services hard services hard services hard services hard services 2 holds. Charge	Weat Virgans State University (WSU), State University of Northern Negros (SUNN)	Fishefolds in various coastal communities Local Government Units (LGUs) where the project will be implemented Government Agencies such as BFAR 6, NEDA, and Dir Universities and Colleges involved in the project Government of USBVARRDEC Facultyresearchers of CMB involved in the project Government of USBVARRDEC Facultyresearchers of CMB involved in the project Enterpreserves ¹ , intersted in commercializing food and pharmaceutical products out of the rainbow aardines	01-Mar-24	28-Feb-27	ONGOING	4,961,650	1,813,950,00
	Reproductive Development and Early Life Growth of Sardinelia gibbosa in the Visayan Sea	Rapid, Inclusive and sustained economic growth	Sardnell apticosa, the dominant sardner spocele in the Varyana Sea, the healy-richted from tale Linad (hy) to aduit agase. The stock appears to the mode up entirely of the yourget than 2-years, making the fathery increasingly unlenable to collapse in years with poor recruitment. This is a major concern for the right in the hydro data durages on father and an another the stock of the stock appears While the BFARRSAP studies are regularly conducted in the region, these do not cover the fly fasheres. While the BFARRSAP studies are regularly conducted in the region, these do not cover the fly fasheres and to they include determining datific-based anging and fiscandity grouphology. The proposed study amits is cover these aspects is complement existing efforts and provide none comprehensive scientific bases for managing the fashery.	Publication: presentations in 2 contenences, technical reports; 4 publications Patients: Dirical habitatis of early and other life stages of address in the Visayan Sea Patients: Dirical habitatis of early and other life stages of address in the Visayan Sea Patients: Dirical and technological stages of the stage of the stage address and address of the stage of the stage of the stage of the stage of the address of the stage of the stage of the stage of the stage of the patients (BMR stages) and the stage of the stage of the stage of the Paces and Patientships: Patherships of (LG)s, BFAR-NSAP teams & NFRDI Patiens: Staffs stades of the stage of the stage of the path rational levels; strategic inputs to the National Saudies Management Plan	University of the Philippines Visayas (UPV)	Local commercial and municipal fisheries sector Fisheries Stakehofers & consumers Regional BFAR & NSAP Academe	01-Mar-20	31-Aug-22	COMPLETED	4,999,566	620,175.96

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31	Total Project Cost	2024 PCAARRD GIA
			Kennenkusus and Euskauma anasias are	Dublication: Anadomic Dublications, nor total of t			40.1.04	45 1 00	2024'	5 000 000	1.001.101.00
	Seaweed Waste Biomass from the Carrageenan Industry (SWBC) as Phyco-biostimulants	Integrity of the environment and climate change adaptation and	commercially being exploited to produce carrageenan, a phycocolloid typically	Publication: Academic Publications , he total or 1:	(UPV) University of the Philippines Visayas	Seaweed farmers / coastal communities	16-Jan-24	15-Jan-26	ONGOING	5,000,000	1,291,124.00
		mitigation	employed as a direct food additive generally recognized as safe (GRAS) by USFDA and FAO-JECFA. They are commercially cultivated species in the Philippines	Year 2: Growth-promoting potential of SWBC in alvarezit, Biochemical profiles and nutrient composition of SWBC		Seaweed processing industry, noe adequate supply					
			providing significant and sustainable livelihood especially in coastal communities. Numerous scientific industry driven annications of carraneenan	Patent: NoneProduct: NonePeople: People and Services: Year 1: 1 undergraduate student supported		of raw materials and continuity of supply chain assures stable/ continued commercialization both					
			are highly-recognized in various fields of aquaculture, agriculture and	Year 2: 1 undergraduate and 1 MS student supported; dissemination of improved		for domestic and export demand; promotion of					
			which are tangible solutions in satisfying the UNDP Sustainable Development	to seaweed farmersPlace: Partnerships: Years 1, ros2: 2-3 Collaborations: probably with 1-2		,¬A"zero-waste,¬ in the process of carrageenan production					
			Goals or Global Goals by 2030. The increasing worldwide demand for Kappaphycus and Eucheuma species and carrageenan has resulted not only in the	Seaweed tarmers associations, 1 seaweed processing industry partner (Shemberg Marketing Corp., Marcel Trading Corp.)Policy: None		Researchers in seaweed ecophysiology and					
			expansion of culture sites, but also in the increased seaweed biomass waste from industrial carrageenan manufacturing plants. For instance, the extraction			aquaculture, noe Through these studies, innovative approaches in production and propagation of					
			of refined carrageenan (RC) leaves seaweed waste biomass (SWBC) that are usually disposed of conversion about 60-70% based on the seaweed initial dov			Kappaphycus in Philippine waters may be developed					
			weight. It is presumed that SWBC still contains different types of			challenges brought about by global climate change.					
			starch, poly- and oligosaccharides which may be used not only as feedstock for			Findings from this research could also be used to					
			growth, thus increasing crop yields and quality.			support projects for funding studies on the application of extracts from SWBC as innovative					
						farming strategy for other cultivated seaweed					
						Porphyra, Halvmenia, Gracilaria, Sargassum,					
						Caulerpa)., This study could likewise stimulate					
			This second could like to			production of untapped seaweed metabolites for					
			explore the potential of a seaweed biorefinery concept integration, which considers the use of SWBC for			their value-added potential.					
			production. The application of SWBC in Kappaphycus								
			micropropagation and field cultivation is introduced, which may provide significant contributions toward the development of seaweed waste-derived								
			fertilizer products, and advancement in the cultivation and processing steps along the value chain for the sustainability of the carrageenophyte industry.								
	Spatio-temporal Monitoring and Rehabilitation	Rapid, inclusive and sustained	SMaRTER-Corals project adopts a programmatic approach	ADAID	University of the Philippines Los Baños		16-Jan-23	15-Jan-26	ONGOING	19,306,775	6,044,283.20
	Technology for the Enhanced Recovery of Coral Reefs (SMaRTER-Corals)	economic growth	areas: coral reef monitoring of the reef complex; coral and reef fish	particularly processes that contribute to stability, resilience, and recovery.	(UPLB)	Managing bodies ARNP PAMO/MENRO Eishing community of Sablayan and neighboring					
	,		recruitment studies; identification of important functional groups; and the patch scale rehabilitation of selected sections of ARNP. The goal is to			municipalities					
			generate empirical information to address data gaps and aid in the formulation of a strong science-based management plan for the reef complex. Historical data	Genetic structure of COT population to help managers gain initial insights and understand future outbreaks.		Tourism sector of Sablayan					
			in ARNP reports changes in benthic and reef fish community structure. Utilizing data from 2017 and from SMaRT-Corals surveys, this project aims to continue the								
			monitoring program to further elucidate factors that prevent phase shifts in ARNP. The project aims to add surveys targeting over and read furth	Capacitated personnel and volunteers on coral reef community monitoring and reeforation							
			recruitment, crown-of-thorns starfish population connectivity, and functional	work to help ARNP-PAMO and other stakeholders in monitoring the reef complex.							
			group summation assessment. Coral reer restlence points to the importance of minimizing large scale disturbance drivers, recruitment, and herbivory,								
			particularly in offshore reefs, hence their inclusion in the monitoring program is critical. Climate-driven	Production of a habitat map with a minimum of four classes (i.e., live coral dominated, dead							
			disturbances impacted the reef complex. In ARNP, long term data showed that the frequency of large-scale disturbances occur at intervals. shorter than what is	coral with algae, sand, rubble) and with an overall accuracy of no less than 50%, to be used in change detection and spatial planning.							
			required for recovery. Loose substrate coverage increased after major storm events in certain areas of ARNP. It is critical that assisted rehabilitation								
			must be implemented in sections of the reaf where it is needed with a high probability of purcessful binding and colonization Station Counts and indi-	The production of							
			initial data necessary to support scaling up of the rubble stabilization in a	vulnerable to disturbance and those that have the highest potential for							
			high-energy reet. The project aims to further develop local expertise through training and collaborative output. An important undertaking in the project is	recovery.							
			the Citizen Science training of MPA managers in Sablayan. This was identified during the roundtable discussion conducted under the previous project.	Establishment of							
				a coral rehabilitation pilot site to showcase the technology used in coral rehabilitation.							
				BS and MS							
				graduate specializing on consineer coology and consineers and							
	Species Distribution, Abundance, and Ecology of	Rapid, inclusive and sustained	Massive mortality, degenerating pearl quality, and threats of climate change impacts are the pressing	Publications-1 peer reviewed publicationProducts6¢1 map of pearl oyster species	University of the Philippines Visayas	€¢Small-scale fishers€¢Pearl farm	01-May-24	30-Apr-26	ONGOING	4,990,047	2,711,895.00
	Pearl Oysters (Pteriidae) of the Philippines	economic growth	problems of the pearing industry in the Philippines. To address this, comprehensive information on the diversity, biology, and ecology of pearl systems in the Philippines has to be investigated. This study will	distribution and habitat in 3 selected sitesPeople and Services:€#2 Research Assistants trained on pearl oyster taxonomy and habitat characterization€¢1-2 MSc	(UPV)	industry€¢Shellcraft industry€¢Aquaculture					
			survey and identify the species of pearl oysters present in the Philippines. Their abundance, size, and density will be determined to check for the sustainability of stocks. Habitat types through benthic life	graduates/undergraduate trained on pearl cyster taxonomy and habitat characterization€¢2 Project Staff trained on pearl cyster taxonomy and habitat characterization€¢2 Field		industrycycobs, brint, bennt, noos					
			forms, benthic rugosity, and water physico-chemical parameters will also be studied. These will address the pearing industrye™s need for information on sources of quality broodstocks and will serve as basis	Assistants or Project Staff trained on pearl oyster taxonomy and habitat characterizationPartnerships #tCollaboration/Partnerships through MOLI with 1) MSLI-Tawi-							
			for management of its fisheries and for possible establishment of marine protected areas.	Tawi as co-researcher and coordinator for FGD and KII and 2) NGO (Palawan) as LGU and stakeholders coordinator for FGD and KII Policies #658T based information that will input							
				into possible policies, guidelines or policy recommendations on the fisheries management							
				and stock sustainability or pean systers in sampling sites social impactery participatory- based management involving all the capacitated stakeholders is projected resulting to well-							
				equipped and knowledgeable stakeholders on sustainable tishing/farming practices thus sustaining, improving, and/or creating more livelihoods for Philippine pearling							
				industry.Economic Impact6¢The development of protocols and techniques will result to the improvement of the pearl oyster production, promotion of investments in product							
				development, strengthening the hold of current markets and exploration/diversification to new markets.							
	Value Chain Analysis of Pearl Oyster (Pteriidae)	Rapid, inclusive and sustained	Pearl oyster farming is considered as one the most valuable aquaculture activities in the Philippines.	Products6¢Value chain map of Philippine pearling industry6¢One (1) training module for	University of the Philippines Visayas	1. Stakeholders a. Input suppliers	01-May-24	30-Apr-26	ONGOING	5,000,000	2,859,940.00
	Towards Sustainable and Competitive Pearling	economic growth	From a small-scale mariculture enterprise, it has now evolved into a multi-million dollar industry which primarily exports the gold- or silver-lip pearl oyster Pinctada maxima in Japan, Hong Kong, United States,	pearl oyster key stakeholders produced in three (3) different local languages/dialectsPublication€¢One (1) ISI publicationPeople and Services€¢At least four	(UPV)	b. Pearl oyster farm operators; workers: small_scale					
	industry in the Philippines		Australia, and Switzerland among others. Other pearl oyster species cultured in the country are Pteria penguin (mabe) and P. margaritifera (black-lipped) (Adan 2000). In 2018, the Philippines has exported a	project personnel (includes early career researchers, graduate, and undergraduate) will be trained on quantitative and qualitative research using value chain, SWOT, and root cause		divers/fishers c. Pearl oyster					
			total volume of 2,001 kg net weight of pearls amounting to US\$15.3 million; while trade value from importing countries (i.e. Japan, Hong Kong, United Kingdom) totaled to US\$1.03 million comprising 65.	analyses.Places and Partnerships6¢Partnership with the pearl oyster industry, research and academic institutions, government (LGLIs, NGAs) through MOLIs/MOAsPatent6tTwp (2)		processors and processing companies d Pearl oveter traders, distributors, and					
			kg of cultured and natural pearls (UN Comtrade 2018, ITC Trademap 2018). This research proposal will arrans the performance of the pearl curter industry in the Philippines using the Value Chain Framework	copyright of value chain maps developed, including training module and/or policy		exporters2. Local communities within pearl oyster					
			Through this framework, the movement of the product, from input supply, production, postharvest, trade, and market will be characterized. Data will be collected the product of the production of the production of the product of the	stakeholders across the pearl cyster value chain that is focused on human well-being, good		rarm sites3. Enabling environment (e.g., NGAs, Rls, academe) and supporting markets					
			informant interviews, and validation workshop that is well represented by stakeholders on all nodes	Philippine pearling industry through fisheries value chain that will help build and integrate co-		-,					
			Aquatics are value chain) and secondary data (e.g., Philippine Statistics Authority, Bureau of Fisheries and Aquatic Resources, Local Government Units). The governance and socio-economic dimensions will be	needed for the promotion of sustainability and good governance.Economic ImpactThe							
			a clear picture of the level of sustainability of the commodity, the resilience of the value chain, and	pensincation of the strengths and gaps in the Philippine pearl oyster industry and the creation of a value chain map that will serve as a baseline to develop programs and policies							
			information, which is vital in decision-making. Chain Performance Analysis will be used to evaluate the performance of existing supply/value chain in the pearl syster industry (i.e., efficiency, flexibility, overall	that will increase value and volume production as well as global market share of Philippine pearling industry.							
			responsiveness). Analyzing the chain would uncover the root causes of the problems that will be utilized in the development of intervention models. A final validation workshop will be conducted to allow the								
			stakeholders as well as policymakers to choose the best option/s for an effective fisheries management and sustained pearling industry in the Philippines.								
	ViSMO: Visayan Sea Model for Operational	Integrity of the environment and	In the Visayan Sea, despite the decreasing catch, the potential for fisheries remains because of its seemingly naturally	1. Publications	University of the Philippines Diliman	BFAR and SUC [™] s who need surface current maps	01-Jul-23	30-Jun-25	ONGOING	4,999,368	1,111,092.00
	erouning dating	mitigation	productive waters. The reason for the high productivity is not clear. Time series of fish catch per unit effort (CPUE) data do show correlations with	(3) Three Research Articles/Journal Publications	(0.0)	productivity information for maritime enforcement,					
			environmental variables, particularly sea surface temperature (SST), wind speed and net primary productivity (Bacalso et al. 2022). However, it is recommised			oceanographic research and fisheries					
			that the mechanisms involved in the relationship between fisheries and environmental variability in the Vironan Sea remain commission	2 Product (3 Knowledge Producte)							
			This	. rooms (3 knowledge Products)							
			study will attempt to characterize the circulation in the Visayan Sea and the	A website providing near-real-time high-resolution ocean current							
			productivity. It is very likely that understanding the processes in the Visayan	platform for Forecasting, Nucleus for European Modelling of the Ocean							
			Sea involves its interaction with the neighboring basins in the Visayas and examination of the neighboring basins is also a crucial part of the study. An	(SURE-NEMU) output							
			explanation of the processes contributing to the natural productivity of the Visayan Sea is an important input towards an ecosystem-based management of								
			marine resources.	3. People and Services							
				. (2) Personnel trained in using DELFT3D and SURE-NEMO modeling							
				C							
				4 Places and Partnerships							
				Research collaboration with UPV and BFAR							
				5. Policy							
				Science-based information that will serve as inputs	1	1					

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
Attaining sustainability in the fisheries for sardines and other small pelagic fish off the Zamboanga Peninsula (v. 2021)	Proj 3. Spatial patterns in the fisheries for sardines, their fry, and associated small pelagic fish off the Zamboanga Peninsula	Integrity of the environment and climate change adaptation and mitigation	The program halds on the studie of the fait phase of renergizations of the zenonoung Lypering phase models the birth is populated by the ord devices of the transmound by writing from these results, particularly those concerning maturity, assuming, early stage popular and recruitment, the phase results, particularly those concerning maturity, assuming, early stage popular and recruitment, the phase studies affects associated seman pelosity stocks. In the device of the ecocycles and how as faithering affects associated seman pelosity stocks. In the device of the ecocycles and how as faithering affects associated seman pelosity stocks. In the new studies, core the entire zantowary Permandia (Eas. Stud Sel) so camerin one colosy by the coupling of horth and South zantowary, as suggested by the results of periodes studies.	Baseto information on the composition, distribution, distribution, distribution, distribution, and the second to pravel by a work of the carrier law and the second secon	Jose Rizal Memorial State University (JRMSU)	Local commercial and municipal fisheries sector, fisheries stateholder and consumers, regional BFAR and NSAP, and academe	01-Apr-22	31-Mar-25	2024' 5 ONGOING	11,484,492	2,785,888.40
Attaining sustainability in the fisheries for sardines and other small pelacin fish off the Zamboanga Peninsula (v. 2021)	Proj. 1 Early Life Dynamics and Reproductive Capacity of Sardinella lemuru and Associated Small Pelagic Fish off the Zamboanga Peninsula (Life history, recruitment and trophic role of Sardinelia lemuru off the Zamboanga Peninsula)	Rapid, inclusive and sustained economic growth	The program builds on the results of the trial phase of investigations of the Zamooniga Upwelling means results, particularly these concerning making, scanning, carrying powh and enclament, the tyr fastness, and the role of sardness as a key species in the triphic stucture of the ecosystem and how in fativeis affects associated small participation. In addition, there are studies cover the entite Zamooniga Pentinula (Sard Sub Sas) to examine more closely the coupling of North and South Zamooniga, an suggested by the results of previous studies.	-Somo-based haves control internet points for the dominant spaces of subsets and models and point of the subset o	University of the Philippines Visayas (UPV)	Local commercial and municipal fisheries sector, fisheries stakeholder and consumers, regional BFAR and NSAP, and academe	01-Apr-22	31-Mar-25	ONGOING	11,474,842	3,624,018.83
Attaining sustainability in the Sisheries Gro	Proj. 2 Trophic Role of Sardinella lemuru off the Zamboanga Peninsula	Repid, inclusive and sustained economic growth	The program builds on the results of the first phase of investigations of the Zambaonga Upwelling of Neutrine and the function is supported, and each to provide name to the major questions atting from the support of the support of the support of the support of the support provides atting the function of the support of the support of the support of the coxplete and they all factories affects and the cover of the support of the support of the support and support of the support Zambaonga Persinal a Gard Sub Sub (to examine more closely the coxpling of North and South Zambaonga, as supported by the results of persions atudies.	Science Statud Islamitidin as lipski pro 15 Find of earl of an office and office component and land and large neglicity specified in the protection of feeding on nursery grounds of sardines in Neutrem Exchanges Premissia Mis Manne Biology grounds specified on the Biology and the specified on topic analysis in Philippine pelagie coopystem using C, N and O sable lookope and doctanch content anglys, and preside on rey and pelagie coopystem Excapation Biology content of the specified on topic analysis in Philippine pelagie coopystem using C, N and O sable lookope and doctanch content anglys, and preside on rey and pelagie coopystem Excapation Enhanced understanding of satures rey and pelagie coopystem Excapation Enhanced understanding of satures topics and pelagies (Indexes of Neutrem Zambologya Pennisula analysis in features of Neutrem Zambologya Pennisula	Mindanao State University - ligan Institute of Technology (MSU-IIT)	Regional and National BFAR, NSAP, NFRDLocal commercial and municipal fisheries sector-fisheries stakeholdersSardner un tourism industryAcademic institutions offenting marine science/Sardne and macketel carning and floatsyncademic institutions offention fickimatine Science and Fisheries Students (BS/MSc/PhD)	01-Apr-22	31-Mar-25	S ONGOING	9,923,747	2,472.576.18
				Ecosystem model that may be applied to other fishing grounds in the country							
Biodiversity and Resilience of Coral Reef and Other Ecceystems in Submarine Groundwater Discharge Areas	Proj 3. Response of Coral Communities in Various Submarine Groundwater Discharge (SGD) sites	Rapid, inclusive and sustained economic growth	SCD in now slowly recognized as an important factor that determines the chamistry of occan waters, compared to invest which has a defined end by the two as (20) contentially discharging the two as all the state of the state	 Spatio-temporal characterization of cool communities perivine, fish and macriometeraterial actional resultment in SIG and non-SGO bard 2. Physiological characterization (growth rate, chorophyll a content, account-leale density, and diversity" Symbiodinium clade identification) of common species in SGD and non-SGD sites 	University of the Philippines Diliman (UPD)	Fisheries managers, Resource planners, local and global scientists	01-Aug-21	31-Jul-24	COMPLETED	13,511,330	1,777,306.80
			preserving our reets given the threats of warming, ocean aciditication, and eutrophication. If SGD indeed factors in, them there are more reasons to induce this factor in maine surveys, setting-up of maine protected areas, and in environmental protection guidelines for sustainable tourism, which are not included in any of the guideline worldwide.								
Biodiversity and Resilience of Coral Reef and Other Ecosystems in Submarine Groundwater Discharge Areas	Proj 4. Probing Microbial Diversity in Submarine Groundwater Discharges (SGD) Areas	Rapid, inclusive and sustained economic growth	SGD in now slowly recognized as an important factor that determines the chemistry of ocean waters. Compared to invest with the a defined end by the tess d, SGD combrailly discharge into the use all all the state of the state in contrast with node, solar and rediments which are main sources of desolved matcle, nutrients, and no contrast with node, solar and rediments which are main sources of desolved matcle, nutrients, and potertial uthan commanies can impact the coastate environment as much as or maybe even more than news. SGD and its influence on the coal redi encosystem in Mabrie is an area where we might find ways of preserving our redis given the heads of warming, ocean additication, and eutrophication, 15 SGD indeed to factor is , then there are more reasons to include this factor a mine survey, setting, or of marker we might be an one state to the state of the	Database on the diventy of microbial communities in selected SOD afficient aless blabases on microbial community structures needleed SOD affected ales Programmer and the selected SOD affected and the selected SOD affected and programmer and the selected SOD affect and the selected SOD affected and programmer and selected and selected and selected selected and programmer and selected and selected and selected selected and selected	University of the Philippines Diliman (UPD)	Academe, Biotechnologists Microbiologists and systematists Natural products chemists and researchers Researchers and scientists involved in microbial diversity conservation	01-Aug-21	31-Dec-24	I ONGOING	14,884,593	2,306,900.40
Biodiversity and Resilience of Coral Reef	Proj. 1 Distribution, Type and Fluxes of Submarine Groundwater Discharge (SGD) in Makini Batanges	Rapid, inclusive and sustained	protected areas, and in erividinmental protection guideness for sustainable coursm, which are not included in any of the guideline worldwide. SGD is now slowly recognized as an important factor that determines the chemistry of ocean waters. Compared to hivers which has a defined entry to the sea, SGD can potentially distance in the sea all	1. Map of SGD occurrences from the coast to a depth of 30 m in Mabini, Batangas 2. Characterization of acoustic signal of differing SGD types	University of the Philippines Diliman	Fisheries managers, resource planners, local and nobal scientists	01-Aug-21	31-Jul-24	COMPLETED	7,562,840	913,225.86
Groundwater Discharge Areas			along the costal area and notioe shell highlighting the wider influence that SGD may combude. SGD is also notated with mocks, solar and sectiones which are man success of disouble materia, full-inits, and poleful luthan contaminants can impact the costal environment as much as or maybe even more ban intere. SGD and is shiftence on the coral reflecosystem in Mabrii is an area where we might find ways of preserving our refle given the threads of winning, costen additation, and eutophication. ISGD indeed factors in, then threa environmental protocologi addited to successful and eutophication are not protoced areas, and is environmental protocologi addited to successful and the are out protoced areas, and is environmental protocologi addited to successful and the area of	 Earlinet of spatio-temporal variation in fluxes over. Pottocols in the use of satellite images and acoustics for rapid assessment of SGD occumences. 							
Biodiversity and Resilience of Coral Reef and Other Ecosystems in Submarine Groundwater Discharge Areas	Proj. 2 Marine Benthic Geochemistry and Ecosystems Associated with Submarine Groundwater Discharge (SGD)	Rapid, inclusive and sustained economic growth	Coords in our day to an generation interaction factor that determines the chemistry of cases related. So Cons now days incognized as a minimum of the determines the chemistry of cases related. The coords are and in the shell highlighting the waker influence that SCO may contribute. SCO also in contact with increas, so call and schements which are main succes of classicel metals, nutrients, and potential unban contaminants can impact the coacial environment as much as or maybe even more than mers. SCO and is followed and level and level and environment as much as or maybe even more than mers. SCO and is followed and level and level coacial environment as much as or maybe even more than mers. SCO and is followed and level and level coacial environment as much as or maybe even more than mers. SCO and is followed and level and level coacial environment as much as or maybe even more than mers. SCO and is followed and level and level coacial environment as much as or maybe even more than mers. SCO and is followed and level mersen many, coacial additiona, and unitophication 1500 indeed factors in, then the mersed so many coacial additiona, and unitophication in SCO indeed factors in, then the mersen even mersen to include this factor in mains surveys, setting-up of mains encienced and and and involvement all protection guidelines for standambe tourism, which are not denoted and and and in environmental protection guidelines for standambe tourism, which are not denoted and and and the environmental protection guidelines for standambe tourism, which are not denoted and and and the environmental protection guidelines for standambe tourism, which are not denoted and and and the standambe tourism, which are not denoted and and and the standambe tourism, which are not denote the standambe tourism, which are not denoted and and and the standambe tourism, which are not denote the standambe tourism, which are not denote the standambe tourism, which are not denotes the standambe tourism, which are not	Protocols of successful and/or sponnert, Jonnasa sample collection from various interimental collection of SGD Annu. 2 biologic characterization of starts from SGD and non-SGD attes. 3 biolic compation for warders (SGD, ambient seawarder) 4 Trace metal composition of the warders (SGD, ambient seawarder) 8 Burner and Jones Caracterization and the start of the seawarder 9 Burner and Jones Start SGD, ambient seawarder) 8 Burner and Jones SGD, and and SGD, ambient seawarder 9 Burner and Jones SGD, and and SGD, ambient seawarder 9 Burner and Jones SGD, and and SGD, ambient seawarder 8 Burner and Jones SGD, and	University of the Philippines Diliman (UPD)	Local communities in Mabini (resort owners, teachers, students, LGUs, tourists) and nearby HEIs (i.e. Batangas State University)	01-Aug-21	31-Dec-24	ONGOING	20,395,005	2,030,466.20
Ecological factors affecting mesophotic coral reel acceystems: potential reluge from disturbances	Proj. 1 Biodiversity in Mesophotic Coral Reef Ecceystems	Rapid, inclusive and sustained economic growth	mouses in any or any guestime solutions: Cord refet focky in heatmenter by multiple feators and anying guide-language lands. Heatpahol- cord refet focky and heatmenter by multiple feators and refere 30 mod degets the heat to provide a refug against such large-scale streasors, considering their ability to buffer against distulturatorses such as increased temperatures and domine. (Lever 41:200), and theorem feator provide is exploited. (i.e., shallow water; 0 to 20 m deep) refet (Bridge et al. 2010), and theorem feator provides of a school and provide refet to 20 m deep) refet (Bridge et al. 2010), and theorem feator generative school and provide refet to 20 m deep) refet (Bridge et al. 2010), and theorem feators (Borganet et al. 2010, 2017). Refet potential is partly determined by the connectivity of reel site (so dispersing Joernial and post-school and any determined by the connectivity of reel site (so dispersing Joernial and post-school and the school and generative and school and potential dispersing Joernial and post-school and the school and generative of meterical comparison. This patienter: Come is Sprange 2000, and and the school and generative of the school and school and potential potential or meterical and post-school and the school and generative of the school and school and potential potential or meterical and post-school and the school and potential or participations. This and potential or meterical and potential and po	Indextently of cost) industry previous cards, and and this communities in indexted memoritaria state. In the Pulyapine Different susceptibility of the values and managina- reafs to Remark attrast-induced cost all backhing. Saved on the presence of cost laws that are acceptible to Remark attrast-induced cost and a state of the first state of the state of the diving/Taming workshop (at least or at each of the first state) on biodiversity anyoury and bernest stress impact all seats acceptibles (at the VARB) such as a state diving/Taming workshop (at least or at each of the first state) on biodiversity anyoury and bernest stress impact as assessment Ringage (at the other (Taming State)) and the cost communication (IEC) materials distributed and biodiversity and their dimespheric cost exceptions a memory from distributed at Ret to (c) manusciption (the cost of the top the stress of the cost of the first state) and the cost of the the stress stress impact and the stress state to (c) manusciption (the stress of the stress the stress stress stress and the stress state to (c) manusciption (the stress stress in the Pailogine vicine products americanting the could of the Program (the stress stress in the top of the memory stress stress stress stress stress stress stress stress stress to poly momentations on biodiversity conservation and dimet change statestion	University of the Philippines Diliman (UPD), Mariano Marcos State University (MSU), Holy Name University (HNU)	Local communities, local government units (LGUs), fishers, research/scientific community and students	01-Nov-22	31-Oct-25	ONGOING	40,847,667	11,696,529.47
Ecological factors affecting mesophole coal reef ecosystems: potential refuge from disturbances	Proj. 2 trivestigating the Canetic Basis of Adaptive Capacity in Mesophotic Organisms	Rapid, inclusive and sustained economic growth	Coral redit bodge are threatened by multiple telescost at wrying gata/hemporal scale, Meorphotic coral redit oxydawn, wich are occal redit telescost, a cleptic 30 m and desper, have been to provide a refuge against such large-scale streasors, considering their ability to buffer against disturbances such as increased temperatures and domins (Lareer at 2008), and their cleffen close provinity to explorible (i.e., shallow-water; 0 to 30 m desp), buffer against disturbances such as increased temperatures and domins (Lareer at 2008) and their such as a provinity to explorible (i.e., shallow-water; 0 to 30 m desp), buffer against disturbances on a since to bodge and physical factors that rates and else-specific (Borgaent et al. 2010, 2017). Released temperatures and self-specific ceareographic dispersal potential and post-stefferent survival of red organisms, and self-specific ceareographic dispersal potential and post-stefferent survival of red organisms, and self-specific ceareographic dispersal potential and post-steffere is the stagben cearging of metopholic cognitions. This activities and the stagent cearging of metopholic cognitions, and self-specific ceareographic dispersal potential and post-steffere is the stagben cearging of metopholic cognitions. This activities and self-specific ceareographic potential are than and being and y dispersibility of metopholic cearging hole potential of mesopholic redit cognitions. All staffs is not offer to better senses has religing activities of the specific cearging hole.	Consistent microbial symbol dismoly in al least two spokes of exceptions could and sprougnofesticated directions transcription exponents for al least one sections of could and sprougn from selected mesophotic redifficient and a different diphth least two (c2) measurables prepared for publication on mesophotic could acception microbian of microbian prepared for publication on mesophotic could ecception microbian of microbian and sprough samplements and distances. That has the least 2 staff in microbiane and transcriptione analysis. Training workshop (di least one at each of the three eacy of the staff of publications) and the staff of the staff of PhD DOST-FOAMPED scholars with inter to do their research on mesophotic corril coursements of the staff of the staff of the staff of the PhD DOST-FOAMPED scholars with inter to do their research on mesophotic corril coursements of the staff of the staff of the staff of the photic scholars and the photicy recommendations on biodiversity conservation and dimana charge adeptation.	University of the Philippines Diliman (UPD)	Local communities, total government units (ICUB), fishers, research/scientific community and students	01-Nov-22	31-Oct-25	ONGOING	26,163,174	6,955,444.00
Ecological factors affecting mesophotic coari reef cosystems: potential refuge from disturbances	Proj. 3 Examining Population Connectivity between Euphotic and Mesophotic Coral Reef Ecceystems	Rapid, inclusive and sustained economic growth	Croat need today are threatened by multiple stessors at wrying statis-temporal scales. Morepolatic coral need encogeneers, which are coral need that docur at deptice 1 do m and deeper, have been to provide a refuge against such targes scale stessors, considering their ability to buffer against doublambanes sub an interneed impresent cores and domines (Lacer data 2004), and the barbs and and the statistical scale of the statistical scale of the scale of the scale scale suggested that the potential in particle and physical factors that are taxas and barbs, each of the suggested that the potential depend and physical factors that are taxas and barbs, each of (Borogene et al. 2010, 2017). Refuge potential is partly determined by the connectivity of ref failer (approximation of the potential of the scale scale scale scale scale scale scale patients (Coven & Sporsauje 2009), as well as the adaptive capacity of mesophotic organisms. Thus, there is a need to improve understanding of these various factors in order to better assess the refuge patiential of mesophotic refer scoregotemes.	Stort rest sequences and single nucleotide polymorphism markins generated for two deploydnemental composition obtained from wheth nucces polydations. Characterized spatial patterns and degree of genetic connectivity between MCEs and shallow-waiter rests adding the vestmit nucleon and based on single incodebio golymorphism (SMP). Class and the second second second second second second second second second shallow-water rests along the western Lucro coast based on biophysical modelling approaches Trainate al safet in analysis of polyation connectivity in mersephotic rest and the the tree select on polyation connectivity in mersephotic and the second second second second second second second research on mesphotic coal ecosystem Homiton, Education, and Communication (EC), materials produced and distributed (Isedbook on mesphotic coal ecosystems, wideos and biodiversity conservation and climate change subplation.	University of the Philippines Diliman (UPD)	Local communities, local government units (LGUB), fishers, research/scientific community and students	01-Nov-22	31-Oct-25	ONGOING	17,570,647	6,032,115.00

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of	Total Project	2024 PCAARRD
									December 31, 2024'	Cost	GIA
Establishment of the Center for Mollusc Research and Development	Development of Spawning and Hatchery Techniques for the Blood Cockle (Anadara granosa) for	Rapid, inclusive and sustained economic growth	In the Philippines, bivalve production is mostly focused on oyster and mussel farming while little has been achieved with regards to breeding and production of blood cockles, Anadara granosa. The proposa will develop a servation and bethose technique for the production of blood cockles.	Products I GPHatchery protocols and design with potential for pilot testing to target Fisherfolk arenciation (KASAMA Inc.)	University of the Philippines Visayas (UPV)	1.Cockle harvesters - Improved income due to increased production	01-Dec-21	30-Nov-24	COMPLETED	9,497,344	2,143,696.80
	sustainable aquaculture		production of this commodity that will benefit local fisherfolk in the Philippines as well as realize the full	association (KASAWA Inc)		2.LGU - improved livelihood for fisherfolk through					
			potential of the resource as a high-value export commodity.	etAl least 2 papers on hatchery techniques and grow-out (ranching type) potential of blood		3.Export partners - improved and constant supply					
				People and Services		of cockies for export					
				Epimprove and disseminate the need for hatchery interventions in maintaining wild stocks of mollusks							
				€¢At least 1 Training-Workshop on hatchery supported restocking techniques among stakeholders (LGU Aklan, LGU Capiz, Fisherfolk associations)							
				€¢Trained personnel (At least 10) €¢Graduate students (At least 3 supported)							
				Places and Partnerships							
				€¢Partnership with Kalibo Save the Mangroves Inc. (NGO) and Aklan State University on the potential of setting up a cockle hatchery in Aklan							
				epMOA/MOU with KASAMA and NFMC							
				Patent €¢Potential utility model for hatchery protocols of rearing blood cockles (pending results of prior set rearch)							
				Policy EdS&T based information that will input into policies or guidelines on the implementation of							
				ranching techniques for the blood cockle fishery in selected sites (i.e. use of hatchery reared blood cockle spats to replenish wild stock)							
				Social Impact							
				€¢Improved appreciation among stakeholders for the use of aquaculture technologies in ensuring sustainable harvests of bivalve commodities.							
				Epincreased cooperation between stakeholders and research institutions to provide more grounded research initiatives.							
Ploidy-dependent physiological and	Project 1. Prevalence and ploidy-dependent	Integrity of the environment and	Ploidy is the number of complete sets of chromosomes in a cell or an organism, which can either be	Publication: At least 2 published papers in ISI journal Patent: None for this phase.Product:	University of the Philippines Diliman	Seaweed farmers, policy makers, national and	01-Jun-23	31-May-26	ONGOING	11,374,188	3,192,745.15
chemical traits of Kappaphycus cultivars	physiological responses in farmed cultivars and novel strains of Kappaphycus	climate change adaptation and mitigation	Introduction (in the second	veni-unarauenzeu rodus cultivar(s) or distribution and cultivation by seaweed farmersPeople: The project will support at least two graduate students' theses.Place: Establish collaboration with seaweed farmers/cooperatives/associations' in Delwara, Samer	(UPD)	global scientists.					
			nutrient limited conditions, but not under others. Polypicids are common among plants and certain nutrient limited conditions, but not under others. Polypicids are common among plants and generalgae but are less adequated vidcumented in red and brown alcase. Increasing plaidy level is successed to	and SorsogonPolicy: Contribute to national seaweed research and utilization agenda.							
			improve plant traits such as size, quality, yield, enhanced vigor, and improved tolerances to environmental stresses, pests, and pathogens. Whether this is true among our farmed eucheumatoids								
			remained to be investigated. This study will determine the prevalence of ploidy corresponding to specific life history phase among commercial and novel Kappaphycus strains, and their corresponding								
			physiological and biochemical characteristics. Unravelling the occurrence and prevalence of specific ploidy in Kappaphycus is important in: (1) understanding corresponding vigor and productivity among								
			different cultivars; (2) selecting novel strains from the wild for future domestication replacing old and fatigued cultivars; and (3) developing tools for breeding and crop improvement programs.								
Ploidy-dependent physiological and chemical traits of Kappaphycus cultivars	Project 2. Development of Genetic and Chemical Markers for Identifying Tetrasporophytes, Male	Integrity of the environment and climate change adaptation and	This study will address this major gap in the biology and ecology of representative species of carrageenophytes (species of Kappaphycus) in the country by developing genetic markers useful for	Publication:5 scientific papers published in international refereed journalPatent: None for this phaseProduct: genetic markers for phase (ploidy) and sex for Kappaphycus	University of the Philippines Diliman	The eventual target beneficiaries of the project are those involved in the seaweed industry (seaweed	01-Jun-23	31-May-26	ONGOING	12,287,333	3,813,146.15
encimical data or rappaprijous outvars	Gametophytes and Female Gametophytes of	mitigation	distinguishing their ploidy and sex states. These markers will be useful in farm/population surveys and seedstock selection programs. The metabolomes of the genotyped seaweeds will also be investigated to	speciesbiochemical markers for phase (ploidy) and sex for Kappaphycus speciesgenetic markers for phase (ploidy) and sex for Gracilaria speciesbiochemical markers for phase	(010)	farmers and traders, carrageenan/agar					
	Rappaphycus awarezi and K. sinatus		discover potential chemical markers for ploidy/sex of these seaweeds (and possibly potentially valuable natural products that can be derived from these seaweeds.	(ploidy) and sex for Gracilaria speciestechnique for using these markers to determine the phase (ploidy) and sex of a given specimen of Kappaphycus/GracilariaPeople: potential		manufacturers).					
				training of seaweed researchers in government or academe interested in a training on the application of the diagnostic techniques developed by this studyPlaces and							
				Partnersnip:potential linkage with BEAR or NERDI or academic institutions for the sharing/transfer of the techniques							
Supporting Our Seas Through Automated	Project 1. Applying coastal observation and modeling	Rapid, inclusive and sustained	The marine and coastal waters of the Philippines	Publication	University of the Philippines Diliman		01-Sep-24	31-Aug-27	ONGOING	23,521,240	9,105,205.00
and Integrated Networks (SUSTAIN): Strengthening Ocean Observation and	systems to address different use cases in Philippine coastal waters	economic growth	development, pollution, barmful algal blocms and	. 1	(UPD)	LGUs and local communities at the target sites Relevant government agencies €" LGU, BFAR,					
Management of Risks to Coastal Ecosystems			climate change impact them. These lead to	manuscript for publication in an ISI journal		DENR Private industry stakeholders such as ASIN and					
-			compromised conditions of these waters and the ecosystems situated within, which redound to	Products		tourism industry SUCs/researchers and practitioners for capacity.					
			the difficulty of sustaining the resources	New PAWQMS		building					
			Filipinos rely on. Despite these risks to ocean	version and units produced		that can learn					
			resources, key properties of coastal waters are not consistently and transparently tracked,	Hydrodynamic		through the link with CoastPredict					
			changes are not well-understood and attributed, and there is no canadity to evaluate different								
			scenarios and plan for the long-term based on	Biogeochemical models for target sites							
			projected changes. This project aims to fill in an								
			important gap and develop the capacity for consistent, rapid and high frequency ocean	Oceanographic information infrastructure system							
			observation, and for ocean physical and								
			biogeochemical/ecological modeling. Data and	Use cases where ocean models are applied to local concerns							
			systems will then be applied to a variety of								
			use cases in the target sites. Inherent in this process in the engagement with stakeholders to	People Services							
			come up with a co-designed fit-for-purpose ocean	At							
Supporting Our Seas Through Automated	Project 2. Current and Emerging Chemical Threats to	Rapid, inclusive and sustained	observation and modeling system. This Marine toxins threaten the health of the oceans	least 10 researchers and practitioners trained in ocean observation systems; Products	University of the Philippines Diliman		01-Sep-24	31-Aug-27	ONGOING	5,446,328	1,779,676.00
and Integrated Networks (SUSTAIN): Strengthening Ocean Observation and	Coastal Ecosystems Health in the Philippines	economic growth	and pose threats to the marine biota and humans. The increasing incidence of harmful algal blooms (HABs) in marine and coastal ecosystems warrants the		(UPD)	LGUs and local communities at the target sites Relevant government agencies 6" I GLI BEAR		5			
Management of Risks to Coastal			establishment of technical capabilities in the Philippines for enhanced monitoring and conducting assessment of emerging toxins. In this project, we aim to survey	1-2 Guidebook/Manual on HAB-causing organisms, BATT deployment & retrieval		DENR Printe industry stakeholders such as ACIN					
Looyotellis			two sites used for tourism and mariculture activities. We aim to determine the prevalence of paralytic shellfish toxins (PSTs) and other classes of toxins. This well aid in activities of the state o	&nhan-		tourism industry					
			technical capacity for toxin monitoring, and establish the prevalence of emerging trains in different areas in the Philippines.	Publication		SUCs/researchers and practitioners for capacity- building					
			and and a second s			Other countries/stakeholders with similar contexts that can learn					
				3-6 publications		through the link with CoastPredict					
				People							
				and Services							
				louiusp,							
				4-6 MSc/PhD students 10-15 trainees/interns							
				Trainings on HABs ID using new and merging methods (molecular and CLSM)							
				Training for field sampling of pollutants and laboratory analyses Training on BATT deployment and use							
				änbsp;							
				Partnerships					1		

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31.	Total Project Cost	2024 PCAARRD GIA
Sunnorting Our Seas Through Automated	Project 3. Cultivating neonle-centered risk knowledge	Ranid inclusive and sustained	Coastal communities and small-scale fishers in	Publication	University of the Philippines Dilimon		01-Sep-24	31-400-27	2024'	13 545 538	4 642 396 00
and Integrated Networks (SUSTAIN):	building with coastal communities through citizen	economic growth	the Philippines continually face worsening coastal challenges such as dwindling fish catch, habitat disruption, and toxic blooms that severely threaten food		(UPD)						.,
Management of Risks to Coastal	science		production, livelihoods, and income. These are affected by multiple hazards and drivers such as loss of biodiversity, environmental degradation and pollution,	1 manuscript for publication in a peer-reviewed journal		LGUs and local communities at the target sites					
Ecosystems			and climate-change-related phenomena such as sea level rise. Despite these occurrences, there are pronounced gaps in systematizing the risk knowledge of			Relevant government agencies €" LGU, BFAR, DENR					
			these coastal threats. At the same time, dominant risk management approaches disregard community capacities and responses with top-down strategies. While	Products		Private industry stakeholders such as ASIN and tourism industry					
			the trend tor citizen science practice worldwide grows, there is still a need to reinforce citizen science models that give more access to local people in definite residuers description sciences as well as analyzing and utilizing	Ann (1) Tealliù fas E-kanning		SUCs/researchers and practitioners for capacity-					
			information for appropriate actions.	Community-based/citizen science framework in coastal ecosystem risk management Hydrodynamic models for target sites		Other countries/stakeholders with similar contexts					
						through the link with CoastPredict					
			This proposed project aims to initiate community-based risk knowledge-building to contribute to effective risk	Profile of at-risk populations in the partner communities							
			management of coastal threats, through the process of community-scientists co-creation. This can be achieved by increasing the community€™s self-assessment								
			capacities; initiating a community-based monitoring mechanism for coastal ecosystem parameters; and developing response plans for coastal ecosystem	Community-based monitoring frameworks and plans							
			TBAS.	Um Dimente							
				impact mitigation plans and advocacy plans							
				People Services							
				Three Trainings on coastal ecosystem threats for 80							
				participants							
	Seafood Processing Micro, Small and Medium	Integrity of the environment and climate change adaptation and	Inis study ams to assess willingness, capability, and readness or fish and seatodo processing MoMEs to innovate for food safety. Understanding these firm characteristics precedes that of improving importance advances.	Publication: Acleast one (1) article in a refereed journal on innovation capability or processing MSMEs in fish and seafood sector	(UPLB)	Small and micro-enterprises (coastal and marine	01-Jul-22	30-Jun-24	COMPLETED	5,000,000	800,400.53
	Enterprises (MSMEs) in Luzon for Food Safety Standards	mitigation	innovation adoption. This study further aims to contribute to the current limited scholarly work on innovation capability in the Philippines and provide policy support to existing laws promoting innovation among MSMEs with particular force on food rafety.	At least four (4) technical reports (i.e. 3 progress, 1 terminal)		processing) Local government units governing coastal					
	(Old title: Innovation Willingness and Readiness of		anneng women was particular focus on focus anecy.	At least one (1) policy brief relating to food safety and innovation of processing MSME in fish and seafood sectorProduct: — At least five (5) innovation capability intervention models for		communities					
	Fish and Seafood Processing Micro, Small and			the processing MSMEs in the fish and seafood sectorPeople and ServicesAt least 20 men and women staff of processing MSMEs in the fish and seafood sector provided with specific		promoting innovation					
	Standards)			aspects of their operation that need to be improved for chances of successful innovation activities.Partnership: — At least 10 partnerships established comprising of regional Bureau							
				of Fisheries and Aquatic Resources (BFAR), Department of Trade and Industry (DTI), and local government unitPolicy: — Policy recommendations useful to government agencies							
				more tocused effort on promoting innovation adoption among MSMEs							
	Access and Benefit Sharing Policy Options for the Sustainable Management of Batanes Protected	Rapid, inclusive and sustained economic growth	The declaration of Batanes as a protected area brought about many benefits that contributed to the conservation of the province€™s unique biodiversity and rich cultural heritage. However, the declaration	Publication€#At least two (2) articles ready for publication in refereed journals €#At least one (1) Policy Brief€#One (1) video explainer of policy briefProduct €#Science-based policy	University of the Philippines Los Baños (UPLB)	Policy and decision makers, academe (students, faculty members, researchers). local government	01-Jun-24	31-May-26	ONGOING	5,000,000	2,925,043.00
	Landscapes and Seascapes (ABS Batanes)		nas also impacted the lives of the people in terms of what they can and cannot do, particularly to their natural resources. The project aims to explore policy options that will enhance the welfare of major attributed on the standard built of advantage of the standard sta	Intervenuons, access and benefit sharing tramework for protected areasPlaces and Partnerships&partnership with BSC in project implementation (Collaborative Research		units, government agencies (DENR), POs, island communities (men and women)					
			stakeholders most affected by the declaration of the Batanes Protected Landscapes and Seascapes and ensure its sustainability. Specifically, it aims to examine the BPLS declaration and other related policies, and their implementation, applie the distribution of the Declaration and other related policies.	Agreement)tstPartnership through MOU with PAMB, DENR, LGU and other agencies within the protected area People Services€#Roundtable discussions or stakeholder consultation underband forming and Consultation at Language (10) and FLCLUDE DENRE MOD DOD.		communities (men and women).					
			and their implementation, prove the distributional effects of the batanes protected area declaration among key stakeholders through access benefit sharing analysis, assess the policy options based on accelation and access and benefit sharing, and recommend policy options that will ensure the	worksnop/seminars epcapacitated at least ten (10) start of LGU, DENKPAWA, NoC, PUS and academe on the use of valuation tools in collaboration with VALUES Lab6A least two (2) trained undergraduate (IS) and two (2) acadests (ASIDh) structure (filturatus and train							
			succar sateguatos, access and denent-sharing, and recommend pulsy options that will ensure the sustainable management of BPLS and other protected areas in the Philippines. These objectives will be accomplished through the analysis of the effects of BPLS declaration and other related oficines.	(2) realised undergraduate (bs) and two (2) graduate (workhit) suberits epinote and main at least one (1) GREAT scholar Policy & Policy recommendations for BPLS managementSocial Impact: — Awarenees of rights on the sustainable use and							
			stakeholder mapping and profiling of distributional effects, access benefit sharing analysis, multi-criteria analysis, and policy analysis. The project€™s outputs will include publications in refereed journals,	conservation of natural and cultural resources— access to benefits derived from PA declaration.— Promote social inclusion particularly Preservation of cultural practices of the							
			policy brief, audio-visual presentation, partnerships, capacitation of POs and partners, and policy options for the sustainable management of BPLS. The project€™s potential social impacts include increased	IvatansEconomic Impact:Improved welfare of men and women through sustainable livelihood in BPLSInclusive growth among lvatan communitiesConservation of resources							
			awareness of rights on the sustainable use and conservation of natural and cultural resources, promotion of social inclusion particularly access to benefits derived from PA declaration, and preservation of cultural	of the BPLS—Equitable sharing of benefits from the BPLS							
			practices of the lvatans. On the other hand, the project E TM s potential economic impacts include improved welfare of men and women through sustainable livelihood in BPLS, inclusive growth among lvatan								
			communities, conservation of resources of the BPLS and equitable sharing of benefits from the BPLS.								
	Advocating for the Institutionalization of Payment for Water Ecosystem Service (P-WES) in the Philippines	Rapid, inclusive and sustained economic growth	The Payment for Water Ecosystem Services (P-WES) has been recognized in the Philippines as one of the solutions to water-related crises. However, P-WES has not been institutionalized in the country.	Publication€¢One (1) advocacy kit which contains the following: I€-One (1) Brochure on the National P-WES Policy I€-Two (2) IEC materials regarding P-WES in the	University of the Philippines Los Baños (UPLB)	The target participants of the Science Policy Dialogue are the different stakeholders of the P-	01-Jun-24	30-Nov-25	ONGOING	5,000,000	3,674,110.00
			Continuing and building on the efforts of UPLB-INREME ^{WS} P-WES and PESO-SWaPE ^{WS} projects, the proposed project aims to mobilize and collaborate with key national and sub-regional stakeholders for	Philippines and its role in addressing water related issues in the country .tgScience Policy Dialogue ProceedingsPeople Services€100 participants learning about the status and		WES and PESO SWaP projects. These					
			the instructionalization of P-VMSS. A senies of policy dialogues at the local and national level with different institutions, e.g., Nueva Vizcaya Provincial board in parallel to the lower and upper house, DEND ROCC, and DEND EMD, will be predicted. These discusses will be investigate into a para day.	significance or P-WES mechanisms in the Philippinesandspreptul participants with improved knowledge, understanding, and appreciation of P-WES as an environmental memory and response to the DESignian Sector Disease and Data environmental interview.		institutions, and organizations. The heads or					
			Science Policy Dialogue, where all of the relevant institutions and concerned stakeholders will be invited. The proposed National P.WFS Policy will be presented in this event. The proposed National P.WFS Policy will be table to raise	Agreement with DENR-RBCO and DENR-FM8 ,¢#Memorandum of Agreement with future partner institutions in Nueva Vizzava .¢#Community of nardice to advance and		provincial and local government units, CSO/NGOs,					
			comments, and suggestions for the proposed National P-WES Policy. Concurrently, dialogues will also be conducted with the Provincial Local Government of Nueva Vizcaya for the local P-WES ordinance.	ensure continuity of efforts for P-WES institutionalization in the countryPolicy &pone (1) P-WES Policy Briefer &pone (1) Draft National P-WES Policy &pone (1)		participants from the following agencies/ institutions/					
			These policy dialogues will ensure that the developed national and local policy will be timely, relevant, inclusive of the ideas and sentiments of all stakeholders. The results of this project include a national	Provincial Ordinance in Nueva Vizcaya 1. Economic Impacts a. Poverty alleviation in communities who manage water sources b. Better provision of water		organizations are expected to attend: — Senate — House of Representatives — Local Government					
			and local policy on P-WES, stimulating the establishment of PWES mechanism in the country, boosting efforts for sustainability.	ecosystem services, which bring about improvements to other ecosystem services and institutions that are connected with it. For example, higher quality and quantity of water can		Units — Water Districts — Protected Area Management Boards — Private Sectors — Civil					
				lead to more business in ecotourism areas and farmlands. 2. Social Impacts&hbsp a. Improved water quality and quantity in different areas of the country b. Sustainable disclosure of different areas and areas of the country b. Sustainable		Society Organizations — Academe — National					
				who manage water sources d. Enhancement of water services can tackle other issues such as food insecutiv@hten.%hten:%hten:		Government Agencies					
	Advocating Policy Reforms Towards Effective and	Integrity of the environment and	In keeping with PCAARRD's Policy Analysis and Advocacy framework, this study will use Kingdon's milling drawn framework to understand the challenges and interaction includes the study of	Publication:	University of the Philippines Los Baños	Cooperating policy entrepreneurs of DBM, COA,	01-Dec-22	30-Nov-24	COMPLETED	5,000,000	521,178.00
	Efficient Conduct of Public R & D in the Philippines	climate change adaptation and mitigation	utilization of Sec 53.6 of RA 9184 and in promoting the granting of honoraria to researchers. The use of policy scanning and stateholder manning will allow for a dense understanding of the section. The	2 Policy briefs Advocacy materials tailored for specific audiences	(UPLB)	GPPB, DOST, DENR, DA, CHED, CPBRD, RDIs					
			policy streams which intend to provide policy solutions will be addressed through the conduct of policy dialogues, round-table discussions among others. The politics stream will involve identification of	3-5 minute video explainer Process documentation of the advocacy							
			cooperating policy champions to engage in the coproduction of policy instruments and serve as primary actors in the targeted advocacy campaign aimed at the particular government agencies. At the end of the	People and Servicess: Round Table Discussions							
			project, a policy instrument that provides guidance to the research community is envisioned.	Regional and National Policy Dialogues Information Dissemination Seminars/Workshops							
				Places and Partnerships: With NGAs involved in the procurement and granting of honoraria							
				regreements or partnerships on advocacy and campaign formed through technical working groups or interagency groups Police							
				Policy recommendations drafted and formally endorsed 2 Policy instruments advocated and endorsed							
			Animitian second as important second of facilities of the Second Se	Dublinstingféld (and any (1) destingents to be					01/00/01/2		
	Agriculture's Footprints, Gaps and Potentials Towards a Circular Bioeconomy: The Case of the	economic growth	reginuouse serves an important source or eveninood and resources to Hilpinos. Yet, it is not always a boon due to its environmental footprints, particularly in the Philippines as it is highly susceptible to patiral disasters and climate channer. It is important to take nordalize measures to artichter hordinar that	-usukawaweput least one (1) oran paper to be published in a refereed journal@At least one (1) policy brief6#At least one (1) wideo explainer to complement the policy framework, resolution, and sustainability plan for the bisecomery model adoption	Caraga State University (CarSU)	AANR stakeholders (e.g. farmers, fishers,	01-Aug-24	31-Jul-26	UNGOING	5,000,000	2,800,000.00
	Smallholder Farms in Caraga Region		strike a balance between economic growth and environmental sustainability, ensuring a more sustainable and resilient future for Filipinos. One promising approach to achieving this balance is through the	process :Product@Cone (1) database of farm information, input use, outputs, gaps, footprints, waste, and externalities. It includes the visualization and illustration of these		indigenous people). — Local agri-supply chains and chain actors (e.g. farmers, farmer-traders,					
			adoption of circular bioeconomy principles, which leverages biological resources to generate value while minimizing waste and reducing negative environmental impacts. The Caraca Region, part of the frantie	complex interrelationships&cone (1) Process Documentation&Documentation of practices and ways of managing waste and externalities&hbsp:Places and Partnership&Al least one		consolidators, etc.) — Local entrepreneurs — Policymakers— Regional planners					
			areas in the Philippines, faces significant challenges related to agricultural waste management. Circular bioeconomy offers a holistic approach to managing agricultural waste by turning it into valuable	(1) partnership forged with a farmer cooperative€pAt least five (5) MOUs will be prepared with LGUs in the implementation sitePeople Services€pAt least one (1) student advised for his/her		,					
			resources, thus closing the loop and creating a more sustainable and circular system. This project has been then initiated to assess the footprints of smallholder coconut and corn farms in the region with	thesis€¢At least one (1) knowledge sharing conducted with LGUs and other stakeholders (farmers€™ cooperatives, NGOs, and research institutions) project€¢At least one (1)							
			respect to the sustainable development goals of zero hunger and sustainable production and consumption. The project ultimately aims to develop a community-based biocircular model that can inform adjustmention in the Compon Development Tea parts.	stakeholder consultation conducted to involve€¢relevant parties in developing the bioeconomy policy frameworkPolicy .€Policy framework and strategies in adopting the last bioeconomy policy framework policy framework and strategies in adopting the last bioeconomy policy framework policy framework and strategies in adopting the last bioeconomy policy framework policy framework bioeconomy b							
			morm poscymaking in the Garaga Region. The evaluation is proposed to be done with the use of procedures examining the efficiency of the farming processes and practices of corn and coconut.	crouiar bioeconomy modelse#At least one (1) Resolution shall be endorsed to the Department of Agriculture-Caraga for the adoption of the framework in the regional							
			main was now analysis, data envelopment analysis and life cycle analysis (cradie to gate context) of corn and coconut will be used in determining the outputs and the externalities of the farm processes. The results will be used to extend the analysis on the proteining for any contains adversariation of co-	evenues planes/w tests one (1) comprehensive sustainability plan shall be included to ensure the long-term viability of the circular bioeconomy modelSocial Impact:							
			greenhouse gas emissions, excess energy, land transformation, eutrophication and biomass waste) through reuse or valorization strategies and innovations towards the development of circular bioeconomy	production and consumption across the agri-supply chainsEconomic Impact:— Green agri- supply chains — Creation of green jobs and markets — Excedited transition to renewable							
			Based on the said potentials, the gaps in terms of information, technical, social and economic support will be assessed to chart the ways forward for the goal of circular bioeconomy development. The project	bioenergy							
			is anticipated to positively impact the region and the country by offering valuable policy insights for the advancement of sustainable agriculture in corn and coconut and its related environmental policymaking.								
			This will help guide development and investment decisions towards a more environmentally friendly and economically viable future.								
1	1			1	1	1					

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
	Assessing and Acceleration: Towards the Full Implementation of the FAO Small-Scale Fisheries Guidelines in the Philippines	Repict inclusive and sustained economic growth	In the Philippones, municipal, or anti-scale folding, makes reportate contributions to food and nutrition scaling, and inhome (), descered. Takes that that the interference through the years, including displacement, degraded resources, climate change, among others, which contribute to poorty, semicinates P- foreign the control of Security and Forey () foreign () the SSS () Couldines, a product of nepsitations by nemy statishing the security and Forey () foreign () the SSS () Couldines, take product of nepsitations by many statishing the security and Forey () foreign () the SSS () Couldines, take product of nepsitations by many statishing the dynamic Albough the wave must make the security of the security and Forey () for any statishing the dynamic pandemic. In Aras, the Philippines is the first to mobilize the during of National Plan of Action for SSF cludiene statism could be a tabio () funder () security and Forey () may and to recomment enabling point of institutional mechanisms to enhance and accelerate the adaption of the SSF Couldeines.	Selection of the policy looks, which may core topics and R-Basing assements and accentrarily the impermentation of SSF calculates. A final SSF calculates hyperstration Stategies in the Philippine & Philippine (Legal, and entitiones & The SSF calculates hyperstrations and stategies in the Philippine & Philippine Stategies in the Philippine & Philippine Philippine SSF and the Philippine SSF and the SSF and Philippine SSF and the SSF and the SSF and the SSF and philippine SSF and the SSF and the SSF and the SSF and the SSF and the SSF and the SSF and the SSF and the SSF and the SSF and the SSF and the SSF and the same the SSF and the SSF and the same the SSF and	University of the Philippines Visayas (UPY)	Fibhers, policy makers, governmert agencies, researchers, development workers, fisheries managers	01-Jul-24	31-Dec-25	ONCOMG	5,000,000	3,706,032.32
	Assessment and Valuation of the Ecosystem Services of the Pantabangan-Carrangian Watershed Forest Reserve	Integrity of the environment and climate change adaptation and mitigation	The Pantakangan-Carangian Watershelf Feest Reserve (PCWFR) is a oricla watershelf that combined aspinically be the provide or decoydems anvices in the northem part of the PCWFR. SpecTailly, the project and the sense the ecorytem ender, condition, ecorytem services, hereits and the project and the sense the ecorytem ender, condition, ecorytem services, hereits and the project and the sense the ecorytem ender, condition, ecorytem services, hereits and the PCWFR. Report (Sense) are senses the ecorytem ender the economic of the PCWFR and provide specific economical specific economic specific economic specific economic specific economics and the economic specific economic specific economic specific economics and the economic specific economics and the economic specific economic specific economics and the economic specific economic specific economics and the economic specific economics and the economic specific economic specific economics and the economic specific economic economics and the economic economic economic economics and the economic economic economic economics and the economic e	 Restance All least two (2) and/citics ready for publication in referred journals A. Missat one (1) Policy bile / Macritics (1) industry police on PES2 Policy All as Songhann EDNEPMAK, HOO, POS and scattere on the use of valuation bols and PES b. All least two (2) Interior undergrandmittel (8) and Hoo (2) police and (RSPPA) police at Longe and Elast (2) Interior undergrandmittel (8) and Hoo (2) police at Longe and Hoo (2) All Least (2) Interior undergrandmittel (8) and Hoo (2) police at Longe and Hoo (2) For all Involvement). In Partnershy with PAMEDERM and LOUS Polices a. Longe and its management 	Unversity of the Philippines Los Baños (UPLB)	Policy and decision makers, academe (dtudents, tractly members, researchers), private organizations, local government units, government agencies (DENN), Pos, upland communities (men and reomen)	01-Aug-22	31-Dec-24	ONGOING	5,000,000	599,800.40
	Building Rural Community Capacity Towards Realiency of the Mango and Coconut Livelihoods in Luzon	Povetry reduction and empowerment of the poor and vulnerable	Agriculture is among the most valuerable sectors to risk as aiming from dimite valuability and other non- valuerabilities that can potentially harm historics and valuman values. The dimitest is a sub- valuerabilities that can potentially harm historics and valuman values. The dimitest values and adoption of lectricology innovators that can they manage such valuerabilities leading bounds is hardlood realized of lectricology innovators that can they manage such valuerabilities leading bounds in the dimitest the dimitest and adoption of lectricology innovators that can they manage such valuerabilities leading bounds in the dimitest and adoption of lectricology innovators that can they manage such valuerabilities leading bounds is half-load realized as a di lenbodo value values with being on bottoms and bottom can dimite consoling and and to degrade the natural resource and processes that backs commany of valued real regiones and adoption in runal faming communities with occorul- and mango-based livelihoods	Publication: use space One publishable (sumal allides or working paper Postuct: 2 Common Section y framework: 2 Typologies of mangos and occanu-based livelihood all based to have former capacitated at least 00 workers formers: capacitated Pace: Established Biagges with private, public, MODs, and other stateholders: In Loon Catabilities Biagges with private, public, MODs, and other stateholders: In Loon Catabilities Biagges with private, public, MODs, and other stateholders: In Loon Catabilities Biagges with private, public, MODs, and other stateholders: In Loon Catabilities Biagges with private, public, MODs, and other stateholders: In Loon Catabilities Biagges with private, public, MODs, and other stateholders and worker private, public, NODs, and other stateholders, — Capacitated men and worker private, public, NODs, and other stateholders, — Capacitated men and worker Imares. Economics Impaid — Established Intelleroy Imarwork for the substatulation public biagges and the chain does lated to Interest Version strategies, and technology delevely biading interventions, approprive SST monotion strategies, and technology delevely mutani resources.	University of the Philippines Los Baños	Beneficiaries of the project will include policy maters, researcher of R&D agencies, evelopment organizations, and ultimately, the citizzes (men, women, children) in each target area.	01-Jan-23	30-Jun-25	ONGOING	5,000,000	2.279,146.34
	Comprohensive Gender Analysie of R&D Projects on Selected Commodifies in the Agriculture, Aquatic, and Natural Resources Sector	Integrity of the environment and climate change adoptation and mitigation	The grader separat of technologies, knowledge transfer, and decision-enables grapport is often event-bate. There is need to prover manipusa. The Harmonized Gender and Development Guidelberg which requires a comprehensive grader analysis. The Harmonized Gender and Development Guidelberg Program (BC) (F) for the identified agriculture, squarkie, and natural resources (MAR) commolity industry Program (BC) for the identified agriculture, squarkie, and natural resources (MAR) commolity industry Program (BC) for the identified agriculture, squarkie, and natural resources (MAR) commolity industry Program (BC) for the identified agriculture, squarkie, and natural resources (MAR) commolity industry and and an analysis of RAD program (BC) and the identified and the identified agriculture and benefits, and grader opportunities and constrainties. Results will be useful for policy recommendations towards grader responsition RAD projects.	Expected Dottub R-bickation - OAD Buildet on greader source and greater rates in 197 commodities - Article for publication in a journal on recommoditient builder in its groomodity industries - Article for publication in a journal on recommoditient builder in the groomodity industries - Article for publication in a journal on recommoditient builder and the findings of the replect Poolsci - SUO of greater suites and greater safets in each of the findings of the replect Poolsci - SUO of greater suites and greater safets for a build findings of the replect - Poolsci - SUO of greater suites and greater safets and suites and Parteenthys - Exhabited instages with two commoditients builds are the findings the FOO build mean of a sofe and Bell publication. Floater and Parteenthys - Exhabited instages with two commodity industry greats tworks making in FOAMRO MANGKON to resume the greater analysis and commodities and the safet by publication. Floater and area greater and a sofe the Bell publication. Floater and the safet biologist beneficiation and a sofe the Bell publication. Floater and area greater and a sofe the Bell publication and and commodities and the safet by publication. Floater and area greater and a sofe the Bell publication and an operation of the safet and the safet biologist beneficiation and an operation and commodities and the safet by point and commodities and the safet by point and compares and the safet by point and compares and the safet and point and commodities and the safet by point and compares and compares and compares and commodities and compares and compares and commodities and compares and compar	Central Luzon State University (CLSU)	— Poliopmakare, researchare, and project leaders of 1 R&D agencies. — Devolgment organizations — Citizzens (men, women, children) in each target area.	01-Aug-23	31-Jan-25	ONGOING	5,000,000	506,588.00
	Decisien Support System for Effective Late Governance of the Twin Lakes of Sibulan, Negros Oriental, Philippines	Repict Inclusive and sustained economic growth	Lake as a natural rescurse are essential for the 'Bolineshy support, freshwater supply, ecosystem evinces, Gimber equivalant, rele habital contendity, increation and houring notenia, and estimate value. Despite hace, studies on lakes in the Philippines all remains fee and are focused mainly on the well-nova lake. Note of these rescurses are encomend with the tubyholicial propriets and management plane. I dise separe to how the la plane are unresponsive to displane to interaction and governance with that of the tophysical apported management plane. The dise separe to how the laterat are unresponsive to dynamic contential human-environment interaction. Studies allow that plane are unresponsive to dynamic contentian human-environment interaction. Nullens allow that plane are unresponsive to dynamic contentian human-environment interaction. Tables allow that plane are unresponsive to dynamic contentian human-environment interaction. Tables allow that plane are unresponsive to dynamic contentian to conservation of the time and that well appointed and the government of the development of numagement plane for the lates ecosysteme. This tably will reglicate the previous project on Sam Pablo lates that a conservation of the Time Lates of Shuaha in allow government. This tuby alms to develop a decision apport system particularly to the this in the site of momenta and development of regularities of the Sam and the site organization of the tables of Shuaha in allow governet. This tuby alms to develop a decision comport system particularly to the the initiate of Shuaha in allow governance aspect, this tuby Redanaschal (2016).	Pabelations(Fine (2) dark scentific jaumal artische (50m (1) EC materiel (50m (1) DSS user manuel (50m (1) olingi hertifichton (1) volikoe equitaren (2-5 minute)/Postoutis (50m (2-5) volikoe) (1) volikoe equitaren (2-5, Pol)/Postje and Primentoly(2-6) (20, Pol)/Postje volikoe)	University of the Philippines Los Baños (UPLB)	— Manchojal Local government untel (Sludan, Sam Jone, Valencia) — Pronnical Government O Negros Oriental — Lake FAMOS — Relevant local popole ⁴⁷⁴ s organizations — Department of Environment and Natural Resources (DENR) — Protected Area Management Board of Balmsasayao Twin Lakes Natural Park (BTLNP PAMB) — Scientific community	16-Jun-24	15-Jun-26	ONGOING	5,000,000	2,903,743.65
_	Developing and Piloting LGU-based Natural Capital Accounting for Improved Governance and Management of Community Natural Assets	Integrity of the environment and climate change adaptation and mitigation	Conventional and practical windom citate that planning and management cannot be effectively and inclinently does submained and windows. This is previously true for LGA that has been encourse are utilized for various purposes due to population and eccommic pressure, there has been measures are utilized for various purposes due to population and eccommic pressure, there has been and utilized to the submainted of the submainted of the submainted of the submainted and utilized to the submainted of the submainted of the submainted and utilized to the submainted of the submainted of the submainted and utilized to the submainted of the submainted of the submainted and utilized to the submainted of the submainted of the submainted of the submainted submainted by the submainted of the submainted of the submainted of the submainted submainted by the submainted of the submainted of the submainted of the submainted submainted by the submainted of the submainted of the submainted of the submainted submainted of the submainted of the submainted of the submainted submainted submainted by the submainted of the submainted submainted submainted by the submainted by the submainted submainted submainted submainted submainted submainted submainted by the submainted	 Pakitakina a. Joznał articak b. Bicusakin paper c. Policy Britz, Produck a. Localizet Koch namosch & Mickaladare Ecopyatin socurała to releader socupistni d. adoption of he localized famoschowich. People and Services a. Trained representatives of LOS and other attached grangot. Policy and Services a. Trained representatives of LOS and other attached grangot. Policy and Services a. Trained representatives of LOS and other attached grangot. Policy a Policy that be the tradpolin of the localized (government and community)(Sconomic impacts. — Improvement of interfaced of the propie within the locality through data driven ecosystem-based divelopment planning 	University of the Philippines Los Baños (UPLB)	— Local Government Units — National government (PGA, DENR, NEX) — Laguna Lako Bwerkgment Authority — Private local organizations — People ¹⁹ s Organizations	01-Nov-23	31-Oct-25	ONGOING	4,996,364	1,260,932.00

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31	Total Project Cost	2024 PCAARRD GIA
-	Developing Indianana Fatanananakia and	Desid instants and sustained	The project titled for Developing Indicency / Entrepreneurship and Establishing a Gender Personnia	Product 64 Integrated Farming System, rice, tilania, banana, and yenetables 64 Buriners	Madaza Ciata Llaivassita (MacCill)	The terret baseficiaries of this periods include the	04 1== 25	24 Dee 26	2024'	5 000 000	2 000 000 75
	Establishing a Gander-responsive Community-based Basiness Modal and Integrated Farming System for the Alangan Mangyan Community in Brgy. Canaan, Victoria, Oriental Mindoro	repue indusers and sessimed	Community/Exaced Business Media and Integrated Farming System for Anapan Mangree Community in Bing, Carana, Vicchi, Ontend Mindord In end for persposed sequences for the 3P-Proceed Tell DOST F204XRD. This 3Pc Project primely aims to establish impact communities with different appo- production of the system of the Manifold AV decision is one among the communities and address and the system of the system periodial for agriculture, aquated and taxing measures. The Manifold and the system of the system of the system Manifold AV decisis is one among the communities address and the system of the system where aquatume and rise production will be at Canaan. It is expected that the Theory of Change could be realized by existing a sublate approach for an enterprise development that will generate a sustainable isothood for them.	model for herginated farming systems (§ Four modules (Fraining Program cartles for P-en thiogenie farming (§ 6 cardiagorgiade data) base of the occumnyls (§ Form hypother provides (Farming and Farlmanity (§ Al least 1 pairtos)) pairtos). The observation and Program Section (§ Four hypother) and the section of the observation of the Alargan Mangyar community and ill as other stateholders of § Four (1) women and men Program Section (§ Four hypother) (§ Four hypother) and the Alargan Mangyar community and ill as other stateholders of § Four (1) women and men movement of the production and marketing of target cross such as rice, basenas, listek and englished immyration (1) hypother production, productify, and production and mercement of the production and marketing of target cross such as rice, basenas, listek and englished immyration (1) hypother production, productify, and product security of the community, Social Impact The establishment of a gardet-response community-based basenas, production, production and marketing of target cross such as rice, basenas, listek and community, Social Impact The establishment of a specific merger and production and unal detection. The state state of the production and more more community, Social Impact The establishment of a specific merger and cultural detection. The state state state of the product well being among community more target. The being regulary of the and impact community all demonstrates and well allow the process to be replicated in other indigenous communities.	Amildo O Salare University (Amildo)	The alget centralicaties to this project include the following: women and men members of the Alangan Mangyan Community in Brgy. Canaan, Victoria, Oriental Mindoro women and men Researchers women and men Researchers LGUs	01-381-23	31-060-20	UNGUING	5,000,000	3,200,923,73
	Development of a Gender-Responsive Knowledge	Integrity of the environment and	The project complements the ACIAR-funded SLAM Project by providing enabling mechanisms for the	Publication-	Visayas State University (VSU),		16-Nov-22	15-May-25	ONGOING	5,000,000	708,863.44
	Transeer Painey da Polentar Adguda da Bes	Contract Contract	can optimize orga hojda, reduce soal loading of plant essential heavy metals, and enhance the quality of all and pothogen magnemic. The pupping is participatly particularly and the metal and will employ mixed method approximes. Project step are Leyte, Clarente, and Benguet.	problemation papers on any of the following topical/tites: Education yourses' the Activation of through before through degle transfer pathways, include technology stopicon through before through degle transfer pathways in the pathways for key statisticides: and endowing the through statisticides: and endowing and statistic project team development: (and the through statisticides): and equation of the through statisticides (1) PCAARRO, (2) VSL, (3) UPLB, transfer and the through statisticides (1) PCAARRO, (2) VSL, (3) UPLB, transfer and the through statisticides (1) PCAARRO, (2) VSL, (3) UPLB, transfer and the through statisticides (1) PCAARRO, (2) VSL, (3) UPLB, transfer and the through statisticides (1) PCAARRO, (2) VSL, (3) UPLB, transfer and the through statisticides (1) PCAARRO, (2) VSL, (3) UPLB, transfer and the through statisticides (1) PCAARRO, (2) VSL, (3) UPLB, transfer and the through statisticides (1) PCAARRO, (2) VSL, (3) UPLB, transfer and the through statisticides (1) PCAARRO, (2) VSL, (3) UPLB, transfer and the through statisticides (1) PCAARRO, (2) VSL, (3) UPLB, transfer and the through statisticides (1) PCAARRO, (2) VSL, (3) UPLB, transfer and the through statisticides (1) PCAARRO, (2) VSL, (3) UPLB, transfer and the through statisticides (1) PCAARRO, (2) VSL, (3) UPLB, transfer and the through statisticides (1) PCAARRO, (2) VSL, (3) UPLB, transfer and the through statisticides (1) PCAARRO, (2) VSL, (3) UPLB, transfer and the through statisticides (1) PCAARRO, (2) VSL, (3) UPLB, transfer and the through statisticides (1) PCAARRO, (2) VSL, (3) UPLB, transfer and the through statisticides (1) PCAARRO, (2) VSL, (3) UPLB, transfer and the through statisticides (1) PCAARRO, (2) VSL, (3) UPLB, transfer and the through statisticides	(UP-B), University of Scathera and IS Technology of Southern Philippines (USTP)	Inter Project Communities Implementing unwersites in terms of imposed research completince Project staff in terms of professional development					
	Development of a Policy Coherence Framework for Access and Benefit Sharing and Fostering Equitable and Sustainable Lake Resource Management in Lake Sebu and Lake Seloton	Repid, inclusive and sustained economic growth	The government of aquaculture in Las Sebu, and Las Bedon is governed by multiple laws, holding 100 (RV 700), how this laws Sebu 200 (RV 800). The set of the sebu 200 (RV 800), how the sebu 200 (RV 800), how the sebu 200 (RV 800), how the sebu 200 (RV 800). These or endpands and the indipense Repeter Repth Act of 109 (RV 8130). These or endpands are sebu 200 (RV 800). These or endpands are sebu 200 (RV 800), how the sebu 2	Pablications: BQDen (1) pable color sensity paper 64Den (1) pable justice for 64Den (1) Pable. Pablications: BQDen (1) pable color sensity paper 64Den (1) pable justice for 64Den (1) Pable. Bandoncase/Paulica, Face Regulations, and programm related to Lale Stefa, 64Den (1) devices and the color (1) comparisod to an associability equip of the control enforcement of the control and/or experiments of the color sensity and/or experiments of the control enforcement of the control and/or experiments of the color sensity and/or experiments of the color sensity of the color conceptual formerors on the deterilistic themas and their impact on enforcement of the color sensitive of the color sensity of the sustainable consequences of the color sensity of the color sensity of the sustainable expections of the color sensity of the sustainable expections of the color sensity of the col	Mindanao State University - General Santos City (MSU-GSC)	The target beneficiaries of the project are the : — Local Government Unit of Lake Selaw — Bureau of Fahreties and Aguato: Resources — Department of Management Bureau — Mational Commission on Indigenous People — People of Lake Sebu, South Cotabato	01-Sep-24	31-Aug-26	ONGOING	5,000,000	1,752,708.30
	Development of an LGU-led Supply Chain Management System for Selected Vegetables	Integrity of the environment and climate change adaptation and mitigation	Supply value management is a concept that ares to synchronize the custome requirements with the goods and services the provided by synghter resulting in a more definient supply characterism. Table 31, thus been supply-demand aga and provide more barefles for the key statehtickers (Sherners, Table 31, thus been customer needs and available supply of goods are for matching. The lasts to localize supply shortages and highly validle protect of wegetables. The same case can be downed in the municipality of highly and any good and wegetables. The same case can be downed in the municipality of the downed of the smallholder vegetable formers in Majayiay with the menicrative of the UH-BB-DAME.	Publications — At least two (2) anticles based on the results of the project (including one policy twoff) Products — Inderweise/Intraface models, supply chan management system, memory system, diabase of key players in segabatis hashadary in Marjay, Layans, supply least (1) oparthership and the MCL and produce oparation of the and other value chain actors People and Services — At least 197 men and warners furners and cli U all directly capacitation from the product system. In the Cli U all directly capacitation from the product system and cli U all directly explained for the metal sector for the product distribution in the CLI of Marjay's, explained formers associations, and key institution and the system system in the clip and the product microad competitiveness of teamers — Livelihood improvement — Improved marketing distribution lines for an improved backward and forward Integers — Higher Innove — higher Involvement of the Inductive the inductive transmission of the inductive microad competitiveness of teamers — Livelihood improvement — Improved marketing distributionality for the analysis of the inductive the inductive the inductive microad competitiveness of teamers — Livelihood improvement — Improved marketing distributionality for the analysis of the inductive the inductive microad competitiveness of teamers — Livelihood improvement — Improved marketing distributiveness of teamers — Livelihood improvement — Improved marketing distributiveness of teamers — Livelihood improvement — Improved team the inductiveness of teamers — Livelihood improvement — Improved team team and team and team and team team and team and	University of the Philippines Los Baños (UPLB)	The target beneficiaries of the project include women and menu segatable producers, policy- makers, R&D agencies, and service providers.	01-Jul-23	31-Dec-24	ONGOING	5,000,000	1,349,849.81
	Development of Traceability System for Cacao in Southern Philippines	Repú, inclusive and sustained economic growth	Given that here is a need to address the consumers ⁴⁰ "concerns about float addrey due to the increasing demand of cance products, the development of a transport transability present Cases hyper and inportant. Anothering on the POAMSDA handed study listed, "Supply Chan Management Cases hyper Spatial Test Spatial Cases and the Case of the Spatial Spatial Cases and congritudes with Spatial Spatial Cases of the Spatial Case of the Spatial Ca	Pacification: Pacification: A lead one (1) relianded decassing how the traceability system can help improve the compensation of the caceo in the international matrices. Dec (1) utility model application: Dec (1) utility model products, and one (1) internative proceeding System (TTS)One (1) formwards for the Pacification: Pace and distribution People Services. A least 100 caceo least 100 caceo leas	University of Southeastern Philippines (USeP)	The scope of this study will be the players of the supply Chain in Region X. Primarily it will include farmers, and the corporate buyers (KF, Buyer cooperative) involved in the production, trading, and manufacturing of Cacac in Region XL — Kennemer Foods hiermaildural and its cace dramers, and similar farmer cooperative/secolations or factories and the auditors—Consumers who are using the product in their daily life—Policymakers, program planners, and researchers working on cacao industry development	16-Mar-23	15-Mar-25	ONGOING	5,000,000	2,025,545,55

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
	Engowering Private Extension Workers to Lead Sustainable Supply Chain Management in Vegetables and Fruts	Rapid, inclusive and sustained economic growth	Building on the success and density pat leasers from the unicus regretence of ARBH resultability apply chain magnetic systems. They are consistent of smallhold regret part of the second bill model. The ARAs would be vorticited an east of even arguingtion and distribution to distribution to distribution. The area of the second second second second second second second construction. Utiliteent marketing chains would be examined to facilitate dreat market. The draw conditation. Eliferent marketing chains would be examined to facilitate dreat market in leaguing for any conditation. Eliferent marketing chains would be examined to facilitate dreat market in leaguing for activity conditation. Eliferent marketing chains would be examined to facilitate dreat market in leaguing excitor, contributing to bracket economic development and community empowerment in Laguin's agricultural sector.	Nabilation — All tests des (1) dial milità / nescrit h politation dendered — All tests de la (1) polito piet dendered — All tests de la l'occementation of Philane Press et the scaPut supply name anagement model Pholaci — Interventionating prodets — Stepply Chain Management System, Markeling system, Chalace de lar poliera in registria and registria de la longet de la	Southern Luzon State University (SLSU)	The study will cover selected municipalities in Laguna including Famy, Mabitac, Sta. Maria, Pangi and Sinioan. These are the low-income class municipalities that by heavily or apriculture & based to the second second second second second face challenges such as costly and/or unreliable access to family inpulsifecources, technology, and markets for their produce. Additionally, these areas for actual classifies like droughts, floods, and the product of the second second second frait produces. Additionally, these areas frait and classifies like droughts, floods, and the product of the second second frait produces. A reliability of the second second frait produces. A reliability of the second second Government Units — Indirect beneficiaries are the consumers, who are utilizing the produce in their daily lives.	01-Nov-24	30-Apr-26	2824 ONGOING	5,000,000	3,413,223,00
	Enhancement of Implementation Readiness and Integration of the 2R2WWE hint obs the Provincial Development and Physical Framework Plan (PDPFP) of the Province of Bataan	Rapid, inclusive and sustained economic growth	The proposed project supports the enhancement of a conclusive environment for the robust preparation and implementation and uses and devolvement plans utilizing the Regles-MeRMWershelm and the project and the support of the support of the Registres of Statement and enhance of the project Generative concentration of Concentra	Pakitations 600m (1) Documentation Report on the current processes by the Blanc PLOU in the formation of the property of the p	University of the Philippines Los Baños (UPLB)	The training and mentoring will mainly target the Provincial Planning and DevelopmentOffice(PPDCO)/BrokincialPlanningAndD evelopment Coordinator's Office(PPDCO)/Bataan, concernedpro and the set of the training of the training of the eps(SUCa), namely.— Provincial Government Environment and Natural Resources Office (PGENRO) — Provincial Agriculture Office (PAO) — Provincial Jagrains Refers: Office (PARO) — Provincial Disaster Risk Reduction Management Office (PPDRNO) — Provincial Land Use Chine (PDRNO) — Provincial and Use Chine (PDRNO) — Provincial and Use Chine (PDRNO) — Provincial Land Use Chine (PDRNO) — Provincial and Use Chine (PDRNO) — Provincial and Callos (PDRNO) — Provincial Agricultural State College Dona Remedios Timida — Aurora State College Dona Remedios Timida — Aurora State College Dona Remedios Prescribed evelopment Joins as its reference framework in updating its CLUPS, CDPS and other prescribed evelopment Joins using the R2RWEM approach. This will involve planners and cocnered personnel from the Municipal Planningand Development Office(WPCC).	01-Jul-24	30-Jun-25	ONGOING	5,000,000	5,000,000,00
	Enhancing Competitiveness of Coconut-Based Enterprises in Eastern Visayas: Business Model Innovation through Dynamic Capability and Co- creation Approach	Poverty reduction and empovement of the poor and valuenable	The Philippine Cocons (Famera and Industry Reasting (2011-2020) of the Philippine Cocons (Anthony and the Cocons (34) Readings (2021-2020) by OCI31-PC-VMRD interview at aligned the series of a cocorul products that can compete in domestic and relemational markets, and strengthening cocorul finance "oparticularised herrystes. Network to their in the ear of right behandings and antheness the metal strengtheness and the series of the series and the series of the terms of the terms in the cocopatibility and coloring and the point of the series and the series of the terms in the cocopatibility and the series of the series of the series of the series of the series in the cocopatibility and the series of the series of the series of the series of the series market, use addition, and reamon generation. To date, there are 128 cocons that metal terms of the series and achieving long-term sustainability in doing so, incorporating co-reation processes, where employses and the series of the series assignability, and continuous terms of the form terms of the series of the series of the series assignability, and continuous terms of the series the series of the series of the series of the series assignability, and continuous terms process in busines model immostion ensures enterprises and the series or evaluation aspective. Deploying the metal of the series of the series of the series and achieving the co-central process in busines model immostion ensures and the series of constants of the series apprecision. The series is the series of the serie	Pablication (FGNe 11) SCOPUS-means publicationPhotox: (E)Database of the target Cooran Fames Copusations/Interpress (PMe C) Lives. Convex and Business Mode Cooran Fames Copusations/Interpress (PMe C) Lives. Convex and Business Mode means (PME) and PME (PME) (PME) (PME) (PME) (PME) (PME) means (PME) (PME) (PME) (PME) (PME) (PME) (PME) (PME) (PME) PME) (PME) (Visayes State University (VSU)	The target beneficiaires of the proposed project are the following Coson Harmers Organizations (CFOs). — Katipuran ng mga Malilit na Magniniyog as Pilipinas (KAMMPL). Borusane, Leyk Chapter – Nava Settlers Multi-Purpose Cooperative – Camla Agrantan Reform Cooperative (CARCO)	01-Jan-25	31-Dec-26	ONGOING	5,000,000	2.584,975.00
	Enhancing the Development and Growth of Seaweed- based Enterprises in Sorsogon (EDGES)	Integrity of the environment and climate charge adoptation and mitigation	Strangen was historically one of the major produces of elid stock seareeds in the Philippines and was the pioner of searce dimming in the Biochemy Ferner, The Arabyr is harpened with various issues the pioner of searce dimming in the Biochemy Ferner (1998). The industry is harpened with various issues provides in the province has been continuously decising. The industry is harpened with various issues device practices. This designment, discourse dimmins, which was also of exist access. With the growing demands for searce dimension of the value chain piperin is device practices. The searce dimension of the value of the piperine is and the growing demand for searce dimension of the value chain. See, mapping the searce family also conclusion to assess the resource capital and chargenities easing and the growing demand for searce dimension of the value chain piperin searce of value chain value resolutions and the searce of the concert on pipering the searce of t	Pablication: A least one (1) data fraction for publication in highly regarded per-relevant points, One (1) option plant/back, One (1) option multiplants (1) options, 1) optio	Sonogon State University (SorSU)	Is is estimated that at lead 1 men and women sourced formers belonging to three (2) essaved producer groups will benefit from this study. As indirect beneficiaries, the LGU, academe and policy makers within the province may benefit from the replication and/or scaling of interventions.	01-Oct-22	30-Sep-24	COMPLETED	5,000,000	1,013,074.60

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
	Enhancing the Efficiency of the Location-based Logistics of the Tumber Supply Chains in Caraga and Davas Regions Using Spatial Econometrics	Repti, inclusive and sustained economic growth	There is an expan connectly of the Caraga and the Davas Regions. In spite of the defare-enring productia series distantis found efficiency of the Caraga and Bonz Regions. In settle of the defare-enring products and payments and for transparency are key areas that need to be addressed: DOSTP-CUMBO and organization defares (DSTP-CUMBO and organization) defares (DSTP-CUMBO and organization) demons(DSD2, and angitalization and harmonication of products (DSD) and products and the plantabotism. In all of these, here set of half harding (RSD) gas to address the plantabotism. Compared the set of hardings and concerns facing timble logistics were which can result to harding the compared term then address the weight of in setting (RSD) gas to be which can result to harding the compared term then address the plantabolic of trucks, availability of harding explanned that the beat term in proceeding the permit to transport of trucks, availability of harding explanned to the setting term in proceeding the permit to transport of trucks, availability of harding explanned that have been used for the harding terms and availability of trucks, availability of harding explanned to the logistics across such as checked and availability of trucks, availability of harding explanned to the logistics across that have been used for the harding terms of the compared legistic tructures to be availability defaring of the three trucks and the logistics across tabletise plantabolic biologistic legistics that have been used for the compared terms of the compared and the Basistics the realization, the distribution of the three trucks and rock across on spatial attributes provides that of the secting the compared term the truck and rock leaded on spatial attributes provides and the common deal to the section based and based one provident and the used the section deal to the truck truck will be identived that an close to realize appoint of the responsator and the development of an efficient logistical system for tinher in both Campa and Davan regio	People Services(#A teat five ()) men and five (1) women after (iii) measures assisted on make information and inapped/A teat five, (iii) () women and five (iii) matabetoldes are molecule in the strategic planning and leebbaak sessions of the prioritize programs of the distance in Canaga and the LOBAs house Region (Figure 1) Allocations (#A) and the centrel productPharthhype(AI test) five (4) (onliberations what onli extended productPharthhype(AI test) five (4) (onliberations what onli extended productPharthhype(AI test) five (4) (onliberations what onli extended analysis (Canaga and the LOBAs house Region(Figure (A))(ashatorisf(#A)) and (F)) (and plant) and action (Canaga and the LOBA house Region(Figure (A))) (adhatorisf(A)) and (F)) (and plant) and action (A) and (A) and (A) and (A)) (adhatorisf(A)) and (F)) (A) (and (A)) and action (A)) (adhatorism (A)) (adhatorisf(A)) and (F)) (A) (adhatorisf(A)) and (A)) (adhatorism (A)) (adhatorisf(A)) (adhatorisf(A)) (adhatorisf(A)) (A)) (A)) (A)) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A)	University of the Philippines Mindanao (UPMin). Caraga State University (CarSU)	NULL	01-Jun-24	30-Nov-25	ONGOING	5,000,000	3,479,954.00
	Enhancing the Growth of Crossbeed Dairy Buffalo- based Enterprises in San Agustin, Isabela	Integrity of the environment and climate change adaptation and mitigation	The project will build from the results of the project on the strengthening of the Saw Agustin construct outback-based entrying development (CBUD) model. The CBUD model registres agroups of 13 day processing plant under the rangement of Saw Agustin bary Cooperative (SAMCO) proceeding processing and marking. SAMCO was exhibited in 2010 Workplant the parteristry of the PC can differ board generative and the Agustin As a day marketing cooperative, SAMCO proceed the board generative and the Agustin As a day marketing cooperative, SAMCO proceed the board generative and the Agustin As a day marketing cooperative, SAMCO proceed were provider. Interpret agree the Agustin As a day marketing cooperative, SAMCO proceed Indiales and instrument and the potential markets and system for MBC use additionated. In fact, a municipal ordinance was even developed to regulate the size and singular for construct buildness and instrumenting a municipal consider damas development program for the municipality. The implementing rules and regulations, however, are yet to be developed.	Publication: At least two (2) articles based on the results of the project (including one policy barry devices the standard barry devices and the provide and or new entroprised and or new constraints of the standard standard barry of the standard standard standard standard standard standard standard chain actors and enabling players ²⁰ /sity: At least cine (1) explanmenting takes and regulation including Policy recommendation for further development of the crossible dairy inclusity including Policy recommendation for further development of the crossible dairy inclusity including Policy recommendation for further development of the crossible dairy inclusity including Policy recommendation for further development of the crossible dairy inclusity including Policy recommendation for further development of the crossible dairy inclusity including Policy recommendation for further development of the crossible dairy inclusity including Policy recommendation for further development of the crossible dairy inclusity including Policy recommendation for further development of the crossible dairy inclusity including Policy recommendation for further development of the crossible dairy inclusity including Policy recommendation for further development of the crossible dairy inclusity including Policy recommendation for further development of the crossible dairy inclusity including Policy recommendation for further development of the crossible dairy inclusity inclusity Policy recommendation for further development of the crossible dairy inclusity inclusity Policy recommendation for further development of the crossible dairy inclusity inclusity Policy recommendation for further development of the crossible dairy inclusity inclusity Policy recommendation for further development of the crossible dairy inclusity inclusity Policy recommendation for further development of the crossible dairy inclusity inclusity Policy recommendation for further development of the crossible dairy inclusity inclusity Policy recomm	University of the Philippines Los Baños (UPLB)	Women and men dairy-buffab based producers and processors in San Agatins, Isabela, polyomakers, R&D agencies, and service providers are the target beneficiaries of the project.	01-Jul-22	30-Jun-24	COMPLETED	5,000,000	900,728.76
	Enhancing the Growth of Tree Plantation Industries in the Philippines: Simplification and Harmonization of Policies and Governance along the Value Chain	Integrity of the environment and climate change adaptation and mitigation	This study will be conducted in Regions 10.11, and 13 but covers different stages of the industrial term instantional adopt where its main. This research index to involve the policies and identify loss and and the study of the study of t	PalcyData palcy to simplify ad harmonics (TP is both hermund and pinels issue) (2) and palcy incommendations to inclusion to be 15 Will billionstation and (17) and additional particle particle and the particle and the particle and the particle and the particle line completion of the particle and the particle and the particle the particle the scale that particle the particle the particle the scale the particle the board barries the particle the particle the particle the scale the particle the board barries the particle the particle the particle the scale	University of the Philippines Los Baños (UPLB)	The primary beneficiaries of this project will be the peartment of Evitami Resources (DENR), TP developers, private investors, and the Philippines wood-based industry.	01-Dec-22	31-May-25	ONGOING	5,000,000	372,468.65
	Enhancing the Sustainability, Profitability, and Incluvieness of Coffee Value Chains Incoving IP Communities: The Case of Klangan, Ifugao and Patikut, Sulu	Poverty reduction and empowement of the poor and vulnerable	Overall, the project arms to develop indigenous coffee-specularity communities into sustainable and includue communities, particularly tragmand multiple and Patial to Multi, Net only tragmant identify and traditional expension empowerment but allo provides means to preservation of their cultural identify and traditional the industry. (Including and haveneding to provessing and matching Survey, Including, Multiple and Institute, discussions, and secondary data collection, with informed consent and necessary premission, will be induced to compare the provides in the present collection. The project information games and the advances on constrained and collection, with informed consent and necessary premission, discussions, and secondary data collection, with informed consent and necessary premission, data and the present collection. The predict information games and and the advances on constrained and collection, with informed consent and necessary premission, at all to hopes to provide an updated context of coffee-producing indigenous communities to DOST. PCMARD, DL, DT, and relevant agencies and private organizations.	Pablication (Advances Interes (1)) down and unclean in Sciopour-Indexed journals propried equarity (KP) and not is brain and unclean a direct and dire	University of the Philippines Open University (UPOU)	The project ¹¹ % target beneficiaries are the indigenous coffee producers, oher value chain playes (e.g. processors, traders, roasters, sellers, farme cooperatives, RBos, consumers, and relevant takeholders) in Klangan, flugao and Pakila, Saku, and event government agencies who identify and develop policies and programs for the Philippic collection toolking hottes: beneficiaries include women and children.	01-Sep-24	31-Aug-26	ONGOING	5,000,000	2,610,157.00
	Examing Coproduction of Gender and Sustainability Opamics with Indigenous Peoples for Sustainability Opamics with Indigenous Peoples for Sustainability Nature-Issaed Livelihoods of Selected Priority Commodities in the Philippines (CP4SL)	Rapid inclusive and sustained economic growth	This search will exemine the gunder and auxiliariability dynamica of opportunities provide proceeds in projects and a min promote subminishe hank-base diverse distributions of the provide provide provides in the Philippines. This focuses on projects with indigenous papelies. Co-production is a lay approach employed by the philippines texted to promote multicles and indigenous theorem and the philippines of	Additional and another published, all least one working paper for a conference presentation; all least one policy will for gender-indusive and sustainable coproduction of MLI, incrugant projects Pater. Source State Stat	University of the Philippines Los Baños (UPLB)	hational agencies Bio DOST Holignona communities with IP women and children as indirect beneficiaries of the study local IP community and womn4/cr.ys organizations State Universities and Colleges Local Government Units Non-government organizations	01-Jan-23	30-Jun-24	COMPLETED	5,000,000	582,623.10
	Exante Evaluation of the PCAABRD Industry Strategic S&T Plans for Eel for 2022-2028	Poverty reduction and empowerment of the poor and vulnerable	3201. The PSA recorded 223 metric loss of Exi approx from instand multiplic filterines or a 52% growth in production from the providuo synt. Will opportunities from the exit haufs you filt in production coming from inlimit waters. A granter prospect is the approx water associated with control of the induction of the providuo synt. The induction of the providuo synthese syntheses are approxed as a second field with the induction of the production in the induction of the induction of the providuo syntheses and the induction of the induction o	Pablication (FA) least one (1) journ at introl Productiot Schege GEOcumentation of the potential used outputs and expected outcomes and on the beat possible adoption and impact adoption pathways developed/REI/omation on the beat possible adoption and impact Schwarzback (FA) and the first pathwarzback (FA) and FA)	University of the Philippines Los Baños (UPLB)	EF Policy and decision makers involved in the development and interpretation of the Inland Apustic Biodivensity SST Rodompa (2022/2028), national R&DSST, system and the funding agencies supporting R&D activities sepecially PCAARRD and DSST. efe Researchers win orar directly involved in technology generation/transfer as well as those whose field of tably involuded technology and impact assessment. Efe Evaluation of R&D programs & Ef- Cantelso ST-ARRDDOST funding & Fahary planners and managers, policymakens and sel indistry stakeholices.	01-Mar-23	31-Jan-25	ONGOING	3,482,000	1,129,016.00

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
	Gender Analysis of AANR Technology Development Processes Towards Gender-Responsive Standards, Protocols and Assessment Tools	Rapid, inclusive and sustained economic growth	The Philippines has long subscribed to the principle and practice of gender maintenaming to address asses of gender inequality and harness woment ⁴ 's empowerment, in all aspects of society, Hence, producing project development in the agricultural, equate and natural resource (JANR) socials, and including project development in the agricultural, equate and natural resource (JANR) socials, and including inputs development in the agricultural, equate and natural resource (JANR) socials, and including inputs development in the agricultural, equate and intervent of the first genderation about properties users and the contexts for their kendingly utilization. Preconcident Andress – gender instant on the interventional and and endinged, pathap arms on in resource-based and an approprint users and the contexts for their kendingly utilization. Preconcident Andress – genderation and an advectional and an advection pathap arms on in resource-based and an approprint users and the contexts for their kendingly utilization. Preconcident Andress – genderation and advectional and an advection pathap arms on in resource-based and an approprint users and the contexts for their kendingly utilization. Precenties the advection approprint and advection and advection and advection approprint and advection and advection and advection approprint and advection approprint and advection approprint and advection approprint and advection approprint and advection approprint and advection approprint and advection approprint and advection approprint and advection approprint and advection approprint and advection approprint advection approprint and advection approprint and advection approprint and advection approprint and advection approprint advection approprint and advection approprint advection approprint advection approprint advection approprint advection approprint and advection approprint advection advection approprint advection and advection approprint advection approprint advection advection advection advec	Publication/EA/ least one article for journal publication EA/ least one conference pager/Product EA/A least one Canter Analysia Report for selected XMR technology development processed/N least one calcular exerporties technology protocols and assessment budd/24 least one CA/D Buddin detaining the importance of maintainnumg and male project implementers. Buddings of users and CAID exercised EA/A and the CAID and the intervent implementers intervention - users and CAID exercised for allowing the comment/y differential gender needs of all least one stat/XA/DA least one EA/A/DA/DA least one EA/A/DA/DA/DA least one EA/A/DA/DA least one EA/A/DA/DA/DA le	University of the Philippines Visayas (UPV)	The target beneficiaries of this proposed research will be female and male prospective proponents of AANR technology projects, as well as the female and male end-users of developed AANR technologies.	16-Jun-24	15-Jun-26	2024' ONGOING	5,000,000	2,649,083.00
			satings. Using gender analysis of huma and gende somalitie research retroteds, this proposed Zywa roors genderresponses, in specifically work like to (1) concide gender analysis of AMR technology development processes (benchmarking and conceptualization, protocal and standards, testing and development processes (benchmarking and conceptualization, protocal and standards, testing and development processes (benchmarking and conceptualization, protocal and standards, testing and development processes (benchmarking and conceptualization, protocal and standards, testing and matching, and the standards, testing and the standards and the standards and the standards matching, and the standards and conceptualization and the standards and the standards gender-response standards, protocols and assessment tools for torhonogy protoch in AMR Review outcomes are expected to enhance PCAMRBC®'s gender mainstreaming efforts in AMR sectors.	researchers in proposensis of technology projects par TTIO modal/bj2A lists in or dirth MOJ lists one policy view how to make MARA technology and exploring processes nore gender experiments. The project all ensure that gender exercisity is provide the second second second second second second second second second second second second second second second second second gender exploration and to provide any provide. Exclored second second gender exercisity second second second second second second gender exercisity second second second second second second gender exercisity second second second second second second productivity in three sectors.							
	Gender Impact Assessment of Forest Conservation Projects among Indigenous Peoples in Luzon, Philippines	Integrity of the environment and climate change adaptation and miligation	The project assesses the gender impacts of forest conservation projects introduced to indigenous peoples (P) in Lucon. It Sources on haur indigenous peoples, namely, the activation of the source	Publication - One (1) date of the att literature review on the selected indigenous peoples and their studients-One (1) compendiant of documented case studies on gender-specific impacts of foreit conservation in selected research attack Maat two (2) journal attacks on the studients-One (2) journal attacks of selected research attacks Maat two (2) journal attacks on the (1) informatic additional selected research attacks Maat two (2) journal attacks on the end of the selected research attacks of the One Selected research attacks of the ONE of the Selected research attacks of the Selec	University of the Philippines Los Baños (UPLB)	The target beneficiaries of this project are the men and vomen of the indigenous communities. The results of this research will also benefit the sponsoring GA and LGU as well as the participating PO and NGO as they learn from the lived experiences among men and women of the indigenous communities.	01-Jul-22	31-Dec-24	ONGOING	5,000,000	258,791.46
	Harvesting Tomorrow: Envisoring the Futures of the Luzon Semi-Tenerate Vogetable Industry by 2050 through Strategic Foresight	Rapti, inclusive and sustained economic growth	The Philippine Vegetable Industry has a big growth potential but is currently seek with many challenges, Angel and antonimation is necessary to make it the callent and subassisted sector to navigate the future. Futures thinking and foreight borones a necessary complement to the traditional planning process. The reactive response to the challenges being experimental by the public Brukery should be replaced by proache poties. Photoem and ensure non-could have been anoted if planning many process. The reactive response to the challenges being experimental by the public Brukery anotation the problem of proache poties. Photoem and ensure non-could have been anoted if planning many everything to that we can be provide process. The should be taken to be the country easily counts this prefered future for the vegetable industry. This should will ensure the country to start the prefered future for the vegetable industry. This should be to be an observed thereing the outperform agains the univery many wholes, and the took or to the used non- tangene everything adaptions. The should be the should be a should be a should be a should be a should be a should be provide to be a should be the should be a should be a should be a should be provide to be a should be a should be a should be a should be approved to be a future before. Livitra period lenges the should be a should be approved by the should be provided be a future proof vegetable industry in the next 23 years.	Publications GRDne (1) Foresign the post about semi-supressite vegetable industry GRDne (1) Allowing bindfyR lates on (1) junch and rais on the hums of Philippen segutable solarity limits of the semi-semi-semi-semi-semi-semi-semi-semi-	University of the Philippines Los Baños (UPLB)	The semi-temperate/hightand vegetable industry in the country, frames, input suppliers, markets, local government units, national government agencies, and industries linked to the vegetable industry.	01-Nov-24	30-Apr-26	ONGOING	5,000,000	2,008,591.95
	Impact Assessment of the DOST R&D Program on Increasing Sac Journher Production and Value of Dried Sea Cucumber Products	Integrity of the environment and climate change adaptation and mitigation	The study all determine the programs to studie and controlucions to the growth and Sevelopment of the study and study and the study of	Publication: A lead one (1) dant to the journal and/or throad: Internation about the sature accounts and the publication of the sature and th	University of the Philippines Los Baños (UPLB)	Researchers R&D funding and implementing agencies Policymakers Fishers, processors/traders, and other stakeholders in the sea cucumber industry	01-May-23	31-Jan-25	ONGOING	5,000,000	1,497,316.00
	Impact Assessment of the National R&D Initiatives for Seaweeds with Coccus on the DOST-funded Seaweeds R&D Program	Integrity of the environment and climate change adaptation and mitigation	This impact assessment project aims to trace the utilization of the outputs and evaluate the impacts of the National Reh Distribution of Reh Distribution Rehmeted from 2015 2014. This will cover the three taxio programs with a total of nine (I) projects implemented from 2015 2014. This will cover the three taxio programs with a total of nine (I) projects implemented production capacitor of the Philippines assess frame. Now, while the taxio program, it is impective to determine the impact of the Investment of the Stragman's determine the impact of the trace of the Investment of the Stragman's determine the implementation of the bargent of the determine of the Investment of the program. The determine the implementation of the program, the determine the implementation of the program which cucklid input in tendent taxies of the Investment of the program. The determine the implementation of the program which cucklid input in the program (I) to the strate determine the implementation of the program which cucklid input in the future. The total cuck of the implementation of the program (I) to the strate of the Integram (I) to the strate of the Integram (I) to the Integration of the Inte	Palcitation: At least one (1) datal journal article Pattert - No pattertife Douglus for the paged Product - Moralization on the program imaged on stateholders particularly searced fammer, incomen, and yourh People and Services The (11) tamoet researchers Pates and Process, Tackborg, and Services - The (11) tamoet researchers Pates and Process, Tackborg, and Services - The (11) tamoet researchers Patter - watis and potential collaboration to see the effect of located context in the impact patherway. Palcy: - Services Patter - and Services hat are prosen to be effective), policy recommendation to complement and support changes in outcomes caused by the program.	University of Southeastern Philippines (USeP)	1. Policy and decision-makers, national R&mmpD system and R&mpD Inding agarcines 2. Researchers and development workers 3. DOST- PCARRD 4. Evaluators of R&mmD, porgrams 5. Academe 6. Seaweed networks across the country	01-Mar-23	31-Dec-24	ONGOING	4,999,793	1,341,433.24
	Impact Assessment of the National R&D Initiatives for Talgai with Focus on the DOST-funded National Talgaia R&D Program	Integrity of the environment and climate change adaptation and mitigation	Tapia mained the second highest formed food that spectres in the Philippine in the last 29 years. Despite the including in control position, the development of the last including via a solar of possition drop in the servings annual production granth rel 600°T invested to boot fillaga production and drop in the servings annual production granth rel COST invested to boot fillaga production and drop in the servings annual production granth rel COST invested to boot fillaga production and Philippine (PHICP) (from 2017-2015). Server years after the completion of the production product the NTROP, this messay of qualitative and qualitative and qualitative and the and an angle about the society of the NTROP using a not qualitative and qualitative and qualitative and qualitative and qualitative to production prometry and to base the impact to boots the production for the NTROP programs to effectively support the development of the lilippia industry.	Pabitation - a data impact assessment buffeln and a dark journal anticelling-buck hittings on the subsequence used rapidus and/or status downees and with the subsequence of the subsequence of a subsequence of the subsequence of NRDR at the farm, community, and/outby levels-People and Servicess: at least 4 faculty and/or researchers accelerate in anyout assessment/New and Periority at a least 3 of a subsequence of the subsequence of the subsequence of the subsequence of the d can improve the design and replementation of future R&D and technology transfer programs for tlagia	University of the Philippines Los Baños (UPLB)	ResearchersR&D funding and/or implementing agencies/organizationsFlabery planers and managersPolicymakersTilapia industry stakeholders	01-May-23	31-Jan-25	ONGOING	4,999,693	1,530,581.00
	Impact Assessment of the Program on Retinement of Mangrove Crab Hatchery Technology	Rapid, inclusive and sustained economic growth	The LuSs lander program for hearing baregroue cut practicely international moder in Avalation providers of matter and the same set of the sam	reductatoring at lasts der (1) dann für § juhral antiderinduskraphishmatikk auf auf eine die aus antiversitet auf eine auf eine auf eine die aus der stellen auf eine die aus antiversitet auf aus der stellen aus der stellen auf eine die aus bei (2) researchert auf bei mangrove auf bei design auf nighenstation of fuure ausgebie verschnet auf bei night aussessmentlichlichen Social Impadiations, — hisponde employment optionhalten bezugebie dimpedations, — hisponde employment optionhalten bezugebie dimpedations, — einspresenden of statistication ausgebie einstellen ausgebie aus die bestellt einspresenden of statistication ausgebie einstellen ausgebie einstellen ausgrove crab laufstellt, — Increased competitiveness of the mangrove crab industry einspresenden of statistications, — increased competitiveness of the mangrove crab industry ausgrove crab industry, — Increased competitiveness of the mangrove crab industry ausgebies.	Mindanao State University (MSU- Naawan)	— Mangrove Crab Hatchery Operators — Mangrove Crab Nursey Farm Operators — Mangrove Crab Grow-out Pond Operators — LGU supported FAs (possible shift hom pravn to mangrove crab production) — State Universities and Colleges (SUGs) — Research institutions — Private industries/SMEs	01-May-24	31-Oct-25	ONGOING	4,992,064	3,278,926.00
	Impact Assessment of the Program on the Production of Corals for Reef Restoration	Integrity of the environment and climate change adaptation and mitigation	The project will assess the impacts of the FOAMRED Anded program, aerhootschor of Corals for Reef Restruction implemented form 2014-2017 within the general and or proving regret restruction efforts through the development of outputs between the terms and propagation of const, identification of the second second second and the revaluation of the physiological restores and molecular metahatims and the underlying response to various environmental development. The project at hand would employ various impact assessment embody to provide employed table to effectively contractions, and young the project and the second and the physiological restores and molecular and calculates, and quarity the project and allowing adoption of such technologies in the provide and CLGA. Derestly, the project and Philippines.	Publication A teast 1 draft journal article for publication in Bi journals Impact Assessment Buildmin Manual on the conducid Impact Assessment for Coar Biele Restoration Policy for enabliships and management plan for DBNA BBB Mentoring tamework for refl reflection many structures and the conductive structure of the structure of the structure many at assessment of coal and fravolation projects Social Impact - More assessments of implementation of methods on sexually-derived coral propagates — horsawed awareness of LCUs and other statefactors on the availability of the technology Economic Impact— Improved welfare of women and children	University of the Philippines Los Baños (UPLB)	Local fisherfolks Local tourism Local Government Units of Pangasinan, Cebu, and Tawi-tawi HEIs DOST, DENR, and BFAR	01-May-23	31-Jan-25	ONGOING	4,999,997	1,328,542.15

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
	Improving Agricultural Productivity and Competitiveness of W omen Livelihood Operators through Gender-Responsive S&T Strategies	Integrity of the environment and climate change adaptation and mitigation	Nonem ¹ such is approaches to full but not limited to household consumption, histolaction of devolving and databute products. They are capable of informing catabanes on the use of program of the production provides and on the nutlineal wale of informing catabanes on the use and programs of and databanes. But they are capable of informing catabanes on the use and programs of production in providence and on the nutlineal wale of informing catabanes. But production is providence and the nutlineal wale of informing catabanes on the use and source that and providence and the source of the source and source that affect women. These strategies with an even the source and source that affect women. These strategies with an even well in addressing the dampes and source that affect women. These strategies with an even well in addressing the dampes and source that affect women. These strategies with an even well in addressing the dampes and source that affect women. These strategies with an even well in addressing the dampes and source that affect women. These strategies with an even well in addressing the dampes and the source (SWOT Analysis, Gender Analysis Tools such as the Hermonical Gender and Evolution (PMME) checkels, and Langem ²⁺ is Visione Engineering of addressing the source accomplements (Addressing Hermitian and Evolution addressing the source accomplement addressing (Addressing the source accomplement addressing (Addressing addressing addressing addressing accomplement addressing (Addressing addressing accomplement addressing (Addressing accomplement addressing accomplement addressing accomple	TablatationDe publication is a referred journalProductDAD Information Buildin or operator roles and asson of warenin- Feldore approarbs/hogin as referreds-Produke at (a papality building and training to interly (IR) women and men stateholders and or poject anticipantis. Each training will have filtere (1) women and men patientar/blaces and Policianalproduct and training to an Atemporation of Understanding (IADU) with as (B) women-id-enterpresentation of the case of the state of the case o	University of the Philippines Los Baños (UPEB)	Monen invellhood operators, Women-led Enterprises, Women and Man Researchers, Women and Men Policy Maters, Local Government Units	01-Oct-23	30-Sep-25	2024 ONGOING	5,000,000	1,139,534.00
	Institutionalizing Integrated Crop Monitoring and Forecasting (ICMF) towards a Smarter Philippine Agriculture	Integrity of the environment and climate change adaptation and mitigation	The main goal of this project is is foolitate the institutionalization of the SAAAI (DAP system issues): the last heterogeneous and the second system is a second system of the second system is a second mit of a social research methods. On top of the liel is conduct of consultation meetings with various pagartiment of approximations. Bis subcoording of field operations of PMIRs, PCA, Panning OBE, Field pagartiment of approximations (Buy kinds or heterogeneous field operations) of approximation of page 100 pa	Pablications One (1) advocacy pian developed Doe (1) advocacy bil developed - LOre (1) applications (1) provide a strain of the	University of the Philippines Los Baños (UPLB)	Farmers, farmer entrepreneurs, farmersidgebusiness cooperativesLGUs where agriculture is an industry Regional Agricultural Officers Department of Agriculture (DA), Department of the Interior and Local Government (DILG)	01-Dec-23	30-Nov-25	ONGOING	5,000,000	1,425,926.10
	Integration of Indigenous Knowledge in Designing Nature-based Solutions for Climate - Smart Agriculture Sector in Selected Municipalities in Northern Philippines	Integry of the environment and climate change adaptation and mitigation	This action-selected research project highlights the need to utilize a locally available knowledge reasons: the highground howed by, to support local apartitors for a dimensionant agriculture action. Phenally, it is the higher and howed by, to support local aparticular for a dimensionant agriculture action. Phenally, it is climate hazards affecting the agriculture sector is Support. Note that the dimensionant dispersion and Bayershow, however, the among the process that the research project and undertake will include undertained by the source with the state of project all undertake will include a state the Cubit means, the process that the research project all undertake will include a state the Cubit means, the process the project a state, to see faulty, asis the LCUbit multichlowation provide these NbS as a vital component in establishing their respective climate smart agriculture sectors.	Publication (b) (2) Journal attacked Research bieffine (c) Policy briefs on the mommeridation of the projectPolicaCher (C) Compendium of holpson Cultural (b) Compendium of holpson Cultural testing manual on the co-design and institutionalization processification (c) Council testing manual on the co-design and institutionalization processification (c) Council (c) Capacity-building workshows with a least of the state-hold group properties the additionates of the manufactural testing of the protecting building and the state-hold of the state-hold group processification (c) and additionates of the manufactural calculation of the b h the load diversity (c) (c) additional attraction of the manufactural calculation of the b h the load diversity (c)	University of the Philippines Los Baños (UPLB)	The outputs of the study are targeted to primarily benefit the following: Local government units Negatimest of Interior and Local Government National Economic Development Authority Department of Aurical Statements and Urban Development Department of Agriculture Department of Agriculture Department of Agriculture Indigenous peoples of the Philippines	16-Mar-24	15-Mar-26	ONGOING	5,000,000	1,104,444.84
	Island RoGen-Assessment of the Resilience of Small Island Communities and Gender Roles towards Allevtaing Climate Change Impacts (Old Title: Island ReGen: Assessment of the Resilience of Small Island Communities and Gender Roles towards Mitigating Climate Change Impacts)	Integrity of the environment and climate change adaptation and mitigation	The project will determine the contemporary overall relations of Bluxung and Marinduque, which are oper depresentations of the majority of analisms in the Philippene. Small alands have a high minimability to distants hazans for angularity impact ecosystems and human web-being. Since human and connectivity in the natural and scalar gives and human web-being. Since human and connectivity in the natural and scalar gives the substant, and connectivity in the natural and scalar gives and the state of connectivity in the natural and scalar gives the substant. Anote we are the blad determined. Bealismce Assessment all blac conducted through a community participatory sortabley. The projective the substant state of the state of the state of the state change will be determined. Bealismce Assessment and blac conducted through a community participatory sortabley. The projective through a state of the state of the state of the state change will be determine the state of the state of the state	Publications: A least two (2) conference paper (paper persentation:A+ least two (2) conference paper (paper persentation:A+ least two (2) deal manurphic for publications in eleteral publication:A+ least two (2) and the second public and a least (2) and the second public and (2) a	University of the Philippines Los Baños (UPLB)	Target beneficiaries are the women and men of local communities and various takeholders such as Local Government Unit, Non-government service institutions, poly makers, natural resource managers, and academe.	01-Feb-24	31-Jan-26	ONGOING	5,000,000	1,242,615.92
	Management Effectiveness and Impact of the Locally Managed Marine Protected Areas In Zamboarga Peninsula: Basis for Management Enhancement and Policy Recommendations	Repti, Inclusive and sustained economic growth	Name Pototeder Area in the Philippine are primarily propriate in conserving the econtry's name biodiversity. In encourses y determine there shals to identify treatments that could be recommended to enhance their effective management lutifier. This proposal will empirically assess the management enhancement and poly recommendations. This study will be coulded areange the tool could managed PAPs in Zambaonga Phintuia. These MPAs were chosen from different provinces based cou- rent and the study recommendations. This study will be coulded areange the tool could managed PAPs in Zambaonga Phintuia. These MPAs were chosen from different provinces based cou- ed to built be clusted for the locally managed marine protocided areange the MPAs in Zambaonga Phintuia. These MPAs were chosen from different provinces based cou- carduated by assess the impact of the locally managed marine protocided areange the MPAs in Zambaonga Phintuia. These MPAs will be uticated to the state the management different could council the the could management will be conducted by assess the impact of the locally managed marine protocided areange the MPAs in Zambaonga Phintuia. These MPAs were chosen from different for the MPA in Zambaonga Phintuia. The state of the locally managed marine protocided areange the MPA in Zambaonga Phintuia. The state of the locally management different for all could be the council management different for all councils the management different for all comments. The state of the local phintuin the state of the local	TabilitationsGCOm (1) polesy testifications in the international journaleGCOm (1) Environmental classes model/efficies (2) hostications in a hierarchical journaleGCOm (1) Environmental classes model/efficies (2) hostications	Msamis University (MU)	— MPA Implementers — LGUs — Fisherfolks	01-May-24	30-Apr-26	ONGOING	5,000,000	3,237,021.50
	Productivity, Technical Efficiency, and Competitiveness of the Cacao Value Chain in Luzon and Visayas	Rapid, inclusive and sustained economic growth	Cacce is gaining importance as includeble commodity in the world. The ocumity has a big potential in cacce production and is an important source in the world. However, improvement in the countify-the compositioners is important to create better market share. To achieve these, there is a need to analyze the source of the countify-the source is the source of the source is the source of the source of the counties of the source of the source is the source of the source of the source of the counties of the source of the counties of the source of the source of the source of the source and visual documentations and society data analysis will be down. Appropriate assessment and to be down provided is the source of the source of the source of the source of the source of the source of	Pablicator/Film (2) dark manuscript for journal attack/backtifdard in formation on technical efforms (2), resulting, recompletions, and value chambergine Services/Fild (2007) CAST DAPG (2011), TO ACA (Junna, ING) and ICI 16 (b) to telentific Filds (4) and DAST DAPG (2011), TO ACA (Junna, ING) and ICI 16 (b) to telentific Filds (4) and mature (3) and the state of	Central Lucan State University (CD.SU), University of the Philippines Los Baños (UPLB)	Cacao growers Researchers and development workers Students Consumers Market agents Local government	01-Dec-24	31-May-26	ONGOING	5,000,000	3,697,974.10
	Salt Business Model Development for Small Island Economy	Rapid, inclusive and sustained economic growth	Despite hwing a wait costifies and ratival resource base, the Philippinest ⁴⁴ wait production has been deciming, averaging work 1,064 metric torus no.2015 b.2019, with an annual decrease of 3.45. Several factor, contribute to this decim, including dimited change, land convention, length prices of imported all status contribute to this decime, including dimited change, land convention, length prices of imported and status contribute to this decime, including dimited change, land convention, length and the status of the status of the status of the status and prices of the status o	Pablication-bloop, 64A least one (1) shaft article regarding the sait inschrigfekt least one (1) information builter regarding the current status and prospects of the sait industry in Lanorhouse Kaitery 64A least one (1) when showned and the recommended and the same status of the same status of the same status of the recommended and the whender, match teachylophysical of values and products (1) minimum particular bloophysical Same status of the same status and the same status of the recommended and same status of the same status of the same status of the same status of the recommendation of the same status of the same status of the same status of the same status of the same status of the recommendation of the same status of the recommendation of the same status of the recommendation of the same status of the respect of the same status of the respect of the respect of the same status of the respect of the respect of the same status of the respect of the respect of the same status of the respect of the respect of the same status of the respect of the respect of the same status of the respect of the respect of the same status of the respect of the respect of the	University of the Philippines Lee Barlos (UPLB), Cavite State University (CvSU)	Salt farmer-cooperators, the residents of Patrannunga liand, fish drying industry of Patrannunga industry of Patrannunga, the salt farmers in the major growing areas, and the sait industry of the nearby area and in the country in general.	01-Jul-24	31-Dec-25	ONGOING	5,000,000	4,143,500.00

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31.	Total Project Cost	2024 PCAARRD GIA
	Characterize Caisers Depend and Deline Informed	Desid instanting and supprised	Through this project the LGLIs and the neutr-created Lating Bamboo Industry Development Council	Dublication	DOCT Count Destude Desserve and	- Women and man and and and and and	04 Nev 24	20. Are 20	2024'	E 000 000	2.042.000.00
	Industry-Level Support to Boost the Viability of	economic growth	(LBIDC) and Laguna Bamboo Agricultural Cooperative (LBAC) will be supported to develop and implement strategic initiatives aimed at enhancing the scalability, market reach, technological	Issue at least two (2) news articles about the project	Development Institute (DOST-FPRDI)	bamboo in Laguna	01-1404-24	30-Api-20	014001140	3,000,000	3,013,220.00
	Bamboo-Based Enterprises in Laguna		sophistication, risk management, and overall sustainability of the value chain and enterprise solutions. The partnerships established from the earlier project will be leveraged to contribute resources, expertise.	One (1) promotional video to promote the bamboo industry of Laguna		Local Government Units (MAO, Provincial Agriculturist, etc)					
			and/or market access to support the further development and adoption of interventions. A long-term strategic roadmap for provincial bamboo industry development will be developed outlining key	One (1) draft policy brief providing actionable policy recommendations for the		Other stakeholders of the Laguna Bamboo Industry Development Council					
			milestones, objectives, and initiatives to guide future development and growth. At the enterprise level, more of the identified challenges in the production system, organization and management as well as	sustainability of interventions							
			linkages will be addressed. Continuing the enterprise development support to the enterprises would play a vital role in improving the industry and the capacity and operation of the enterprises to become more								
			sustainable and profitable.	Patent/ Intellectual Property							
				One (1) copyright or IEC material							
			Lastly, the project will develop Council-based supply chain management systems adopting the AABH models on LGL. SLIC- and NGO-led supply chain management systems for the sustainability of the	Product							
			Interventions and ensure a well-coordinated supply chain. This will be through the Provincial Agriculture Office which serves as the Secretariat of the Provincial Bamboo Industry Development Council.	 Sex-disaggregated database of bamboo enterprises and other stakeholders 							
				People Service							
				At least 40 men and women workers of bamboo processors and growers/ farmers							
				trained according to the planned firm-based interventions							
				 Acteast to reclinical star from the COOs trained on technical and managenal aspects 							
				Place and Partnership							
				Build partnerships with at least 15 industry players for the development of the Laguna							
	Valuation of Forest Ecosystem Services of Mt. Malindang Range Natural Park (MMRNP) Misamis	Integrity of the environment and climate change adaptation and	With this, the project aims to conduct valuation of MMRNP ecosystem services using Contingent Valuation Method (CVM). The three important priority resources to be valued in this project are forest,	 Publication — One (1) story book— Two (2) modules (environmental classes and TOT) — 5 poster designs for information dissemination (CEPA)— 2 billboards design for information 	Misamis University (MU)	The primary beneficiaries of this project will be the local communities that will be informed of the total	01-Jul-22	30-Sep-24	COMPLETED	5,000,000	720,778.41
	Occidental	mitigation	water and tourism. This project study is timely and urgent to determine how the biophysical resources and selected ecosystem services affect the socio-economic condition of the stakeholders. Their access	dissemination (CEPA) — One (1) policy brief — 5 articles for journal publication 2. Product - PES mechanism involving the four (4) major Water Districts in Misamis Occidental and		economic value of MMRNP through scientific					
			and benefits derived from MMRNP will be determined, the Knowledge, Attitude, Practices of households towards the issues concerning the park will be assessed, use and passive value of the selective	adjacent Zamboanga Peninsula and integrating PES in their paymentsEcosystem Accounts for MMRNP 3. People and Services At least 10 staff from the partners agencies		the MMRNP-PAMB and Local Government Units in					
			ecosystem services will be estimated, and factors affecting WTP for conservation will be identified. Ultimately, policy options for biodiversity conservation that focus on innovative financing mechanisms	provided with seminar/training on ecosystem accounts. 4. Place and Partnership Partnership established among Misamis University, MMRNP-PAMB, MMRNP-PAMO, local water districts		Misamis Occidental who will use the data for the protected area management conservation and					
			through Payment of Ecosystem Services (PES) and Access to Benefit Sharing (ABS) schemes will be formulated and recommended. After determining the Willingness to Pay (WTP) of selected households in	and LGUs surrounding MMRNP. 5. Policy -Policy recommendations for at least two (2) local policies/ordinances/resolutions-Policy recommendations or inputs to the protected area		protection plans, programs, projects and activities.					
			and applicable in Misamis Occidental. These will be the innovative financing mechanism for biodiversity	management plan for MMRNP		academe™s competency to improve their					
			of MRNP. This will be used to generate runds and resources to support the continuous conservation of MRNP. This will be supported by appropriate policies which will be enforced by the concerned approach [Citiz RAMD_DENP] and other sectors directly interview in the approach in the appro			sectors and NGO [™] s can also utilize data for their					
			agencies, LGUS, PAWB, DERK and other sectors directly involved in the park "is conservation and protection. Utimately, the enhanced conservation and protection effort involving all the stakeholders will are involved and an another sectors are also all the stakeholders will be an another the sector and t			respective priority environmental programs					
			and climate resiliency in the Misamis Occidental province.								
									01/00/00	5 000 000	
	Value Chain Analysis for Selected Bamboo Products in the Philippines	climate change adaptation and	Bamboo is a fast-growing, renewable, and versatile resource, which is found in numerous communities in the Philippines. Bamboo development could contribute to at least seven of the UN Sustainable Development Contribution and and a static affordable and along a series. Affordable and area in the Development Contribution and and a static affordable and along a series. Affordable and area in the series of	Publication: Iwo (2) draft article for possible publication in a peer-reviewed journal (1 per year)Patent: NAProduct: Value chain map Matrix of VC players profiles and corresponding information December and Section 2010 (2) and the students and peer form (2) including	University of the Philippines Los Baños (UPLB)	The target beneficiaries of this project are the different value chain players, such as: farmers,	01-Oct-22	31-Dec-24	ONGOING	5,000,000	1,111,659.60
		mitigation	Development Goals, including poverty alleviation, and recease and clean energy, amorable and resulent housing, sustainable consumption, climate change mitigation, and terrestrial ecosystem protection (Gaulti at al. 2018). It also provides approximations for devalcation and inclusive sustainable and crean	InformationPeople and Services (wo (2) graduate students mentored (wo (2) technical personnel trainedPlaces and Partnerships: At least six (6) partnerships established comprising of the Densityment of Environment and Natural Resources. Event Management		traders, processors, and end-users who will benefit once the bamboo industry is invigorated. It also					
			et al., 2010; it also provides enormous opportunities to developing an inclosive, substantable and green value chain.Bamboo plantations and natural stands exist all over the Philippines, both on government and inclusion. Rearing 7 has the highest number of substantiation users with 100 800 clumps.	Bureau (DENR-FMB), state universities and colleges (SUCs), and value shanagement Bureau (DENR-FMB), state universities and colleges (SUCs), and value chain players Policy: Al last ban (2) policy: decompanying of the bandwork of the bandwork interview.		include government agencies involved in the					
			followed by Region 3 with 111,314 clumps. Major provincial sources of bamboo induced by Region 3 with 111,314 clumps. Major provincial sources of bamboo induced bha Regiont, and the sources of bamboo induced bha Regiont.	Priest two (2) pointy recommendations for the development of the balliood industry		DOST-PCAARRD and DENR-FMB)					
			Bohol, Negros provinces and Leyte in the Visayas; and Davao del Norte and Bukinon in Mindanao (Visturia and Povas; 2003). In terms of numbers of hamboo antempires Parion XI has the most number								
			(590 enterprises) followed by Regions XII and VI with 363 and 356 enterprises, respectively. The Philippings is being nushed to become a key player in the global bambog industry. The global bambog								
			market size was estimated at USD 53.28 billion in 2020 and is anticipated to expand at a compound annual growth rate (CACR) of 5.7% from 2021 to 2028 Major driving factors include growing investments								
			in infrastructure development, increasing use of sustainable building/ construction resources, and rising consumer awareness on the benefits of using bamboo. Bamboo has been declared as a cehigh-value								
			crop, as part of the efforts to develop the local bamboo industry. From 2021 to 2022, the government has allocated at least PhP 22 billion for the development of the bamboo industry in the country. Indeed, the								
			growing global bamboo market and the initiatives of the government present opportunities to the bamboo industry players that they can take advantage of.								
	Value Chain Analysis of Bamboo Textile Products in	Integrity of the environment and	In this project, bamboo textiles will be analyzed through a value chain lens to uncover the bottlenecks of	Publication	University of the Philippines Los Baños	The target beneficiaries of this project are the	01-Oct-22	30-Sep-24	COMPLETED	2 000 000	221 778 00
	the Philippines	climate change adaptation and	the industry and find opportunities for improvement in the chain. Furthermore, it would support the development of programs, projects and activities for the developmentand use of bamboo fiber and	- At least one (1) draft article for possible publication in a peer-reviewed journal	(UPLB)	different bamboo textile				_,,	
		mugauon	textile in the Philippines.	Product — Value chain map		processors, and					
				- Matrix of value chain players profiles and corresponding information		end-users who will benefit once the bamboo industry is invigorated. It					
				People Services		also includes government organizations working to					
				- At least one (1) undergraduate student mentored		Inventory System and the bamboo textile industry					
				- At least one (1) technical personnel trained Partnerships		such as DOST-PTRI, DOST-PCAARRD and DENR-FMB.					
				At least six (6) partnerships established comprising of the Philippine Textile Research							
				Institute, state universities and colleges (SUCs), and value chain players							
				Policy — At least one (1) policy recommendation for							
				IndustryEconomic of the Damboo texule industryEconomic Impacts Through the information that will be produced from tracing the bamboo textile value of the produced portions and an economic of the statement of th							
				at improving the competitiveness of the Philippine bamboo sector and improving the account situation of smallholder bamboo formers. Social Impacts This pariest interds to							
				empower stakeholders and players in the bamboo textile value chain in order to promote a more thriving bamboo industry in the Philippines. It would ensurance the assessments of the							
				market on bamboo textile which may attract individuals to enter on bamboo textile-related livelihood.							
<u> </u>	Value Chain Development of Tamarind in Central	Integrity of the environment and	The project will build from the results of the two previous value chain studies funded by PCAARRD and	Publication At least two (2) articles based on the results of the projectProductsOne (1)	Pampanga State Agricultural University	Three (3) groups of beneficiaries are foreseen to	01-Dec-22	31-Jul-25	ONGOING	5,000,000	981,101.23
	Luzon	climate change adaptation and mitigation	UOSI on tamarind to address the need for a supply chain management system and capacity building of the tamarind producers. Considering the economic importance of tamarind, this project will promote a tamarind producers and a second a second seco	suppry unain HubOne (1) information system on tamarindPeople and Servicess At least fifty (50) men and women tamarind growers organized, trained and linked with the suppresent formation of posterior in the least first least first sectors.	(PSAU)	benefit from this project. The following are:					
			enucyreneousup from production and processing through strengthening the market linkage which will, in turn, induce job creation, economic activity, and socio-economic conditions of the target communities. By artshibiting a sunply chain but, a direct linkage between endowers and artshibiting a sunply chain but, a direct linkage between endowers and artshibiting a sunply chain but, a direct linkage between endowers and artshibiting a sunply chain but, a direct linkage between endowers and artshibiting a sunply chain but, a direct linkage between endowers and artshibiting a sunply chain but a direct linkage between endowers and artshibiting a sunply chain but a direct linkage between endowers and artshibiting a sunply chain but a direct linkage between endowers and artshibiting a sunply chain but a direct linkage between endowers and artshibiting and artshibiting and artshibiting and artshibiting a direct linkage between endowers and artshibiting and artshibiting and artshibiting a sunply chain but a direct linkage between endowers and artshibiting a direct linkage between endowers and artshibiting and artshibiting artshibiting a sunply chain but a direct linkage between endowers and artshibiting a direct linkage between endowers and artshibiting ar	processors-races and rannersnipx teast twe (b) partnerships developed with LGUs, value chain actors (e.g., processors) and enabling players Policy At least two (2) policy accommendations to address constraints identified.		growers, processors, and other entities providing					
			This will yield guaranteed markets for growers TM produce, encourage large-scale processing, and attract pay entry into the inductor. Also, creating a direct link would distribute the dependence of growers to	recommendations to address constraints identified		Central Luzon. — Policy/decision makers —					
			middlemen in terms of collection (i.e., collecting and receiving delayed payments) and marketing. This would enable the provers to secure higher prices by elimination brokerane fees or commissioner			Researchers and development workers involved in technology transfer and agribusiness development					
			Moreover, the removal of intermediaries in the chain will lower the delays and post-harvest losses incurred by the wholesalers and retailers.								
Pomboo Posouroos Intentintent	Project 1. Community based in anterior and M	Popid inclusion and sustain	This project will take off from the outputs of the previous PCAADDO funded project feet"-to	Products@Inventoried data/ database for the inventor/Dublications &i& least (1)ti-l-	University of the Dhillenian Land a	formore and communities according to a	01 5-5 01	24 ^7	ONGOING	10 700 000	2 200 002 40
Technology-Enabled Mapping in the	of Bamboo Resources in the Philippines Aided by a	economic growth	Policy Initiatives on Bamboo Developing a Harmonized System for Community-based Inventory of Bamboo Resources in Key Production Areas in the Philippinese Two of the most inventory	submitted for publication in indexed journals@immoved/finalized manual for the harmonized inventory controloci@itanian manualPeople Service@itania.	(UPLB)	 armers and communities engaged in growing bamboo-based farming and livelihood. — potential 	u1-⊢eb-24	31-Jan-27	UNGUING	10,729,260	3,286,063.40
Philippines (BRITEMAP)	Mobile Application (COM-APP BRITEMAP)		recommendations of the project are: 1) Scaling out of the bamboo inventory protocol, and 2) Development of a mobile application for the inventory of bamboo resources in the country. The proposed	in conducting the actual inventory (At least 20 participants per region)Places and Partnerships 64Partnerships with SCIIs DENR DA DTI LOIs PSA CAr and Private		investors in bamboo plantation development and bamboo-based enterprises — operators of					
			program is a convergence of efforts among government agencies such as the DOST-PCAARRD, UPLB, DTL/PBICC and DENB PCAARRD and DTL arcred to adopt the UPLB Her accommendation and	Sector, Bamboo Farmers/ Traders, ManufacturersPolicy/Et/Policy recommendations/ inputs to the proposed policy document specifically the parameters and the senartic to be		enterprises and manufacturing plants using bamboo					
			provide funds for the implementation of a nationwide bamboo inventory system and the development of the mobile app and dashboard (database system). It was also anneed that IPI R and DEAD.EDFIG will	covered Economic— Envisioned to boost the bamboo industry through steady and reliable supply of bamboo poles & products, growth of the bamboo manufacturing/processing sector.		bamboo resources — National and regional					
			propose and implement separate projects, but both projects should use the harmonized protocol. UPLB will perform the inventory for Regions 4B. 5. 8. 9. 12. and CARAGA while DENR-FRIDR will perform	Contribute substantial revenues for farmers, manufacturers, and government agencies Established bamboo enterprises for local and foreign marketsSocial — Proverty allwinition		government agencies such as DENR, DA, DTI, local government units (DENR, DA, DTI, LGUs),					
			Regions 3, 4A, 7, 11, and CAR. However, very recently, the DENR-ERDB decided not to push through with their proposal. Hence, PCAARRD requested UPLB to cover all the 11 regions. It is important to note	among bamboo growers/farmers/traders — Strengthening of local partnership among bamboo stakeholders (government, POs, community) — Inclusiveness and increased		Philippine Bamboo Industry Development Council (PBIDC) PSA: — Researchers and scientific					
			that 3 other regions (R1, 6, & 10) were already covered by the previous PCAARRD-funded project while R2 is the pilot site of the DTI-funded BRITEMAP project. This project aims to roll out the harmonized	engagement of the community in the inventory and management of bamboo resources		community					
			bamboo inventory protocol and capacitate bamboo stakeholders for the conduct of bamboo inventory including the use of the mobile application.								

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
Bentop Beseurces Intentity and Technology-Bentele Mapping in the Philippines (BRITEMAP)	Project 2. Mapping Bamboo Resources and Mobile Application and Deshoard Development in the Philippines (MAP-APP BRITEMAP)	Rapid, lipituaine and sustained economic growth	Supply secures play a vitar die h my doctorin-maties planform, superkulf) in providing informaties in the diskubukun, cambel, and ober improvision. Supplied with the user of anyone and the single security of the supplied of UK-BAC-PKR in planform, and anyone security and an emprovide in the supplied of the supplice of the supplied of the supplied	Productional data makes up that people in the field can use to record and called chalded web exploration chaldboards that will facilitate management, retrieval, and waituration of hardboard mesources in the 11 regions of the Philippenet/Philipp	University of the Philippines Los Baños (UPLB)	Is fermers and communities engaged in julning barbob b, peterial investors in barbob plantibus development and barbob-based enterprises c. operators of manufacturing plants using barbob cas raw materials d. national government for policy formulation and local government multi with barbob model government cancel, regulation and Philippine Barbob, Industry Development Council (PBIC), PSAe, Researchers and scientific community	01-Feb-24	31-Jan-2)	2024 ONGOING	7,127,963	2,491,109.20
Bambo Resources Inventry and Technology-Balled Mapping in the Philippines (BRITEMAP)	Project 3. Imperatives of Policy and Leveraging Stakeholders and National Entities towards Institutionalizing BRITEMAP (IMPLEMENT BRITEMAP)	Rapid, inclusive and sustained economic growth	The growth of the harmloo hinks in induced due to lack of reliable and updated barance intermedian people initiation of the different approacies line (DRA) and DT-RBUC charmonic formation meaned microarbid, luxiding and cubded the BHTEBMP Program is proporting a barchindogram yostem of an abarbon remotion featurements in other for the share the theory of the community of the theory abarbon microarbon remotions in the formation and the share the proposed pathotics method and information system. The charmonic of the community of the community of the proposed that an institution shade be created that is mandated to adopt and implement the proposed pathotics method and all information system. The charmadate and the proposed pathotic commutations shall be conducted as a participatory approach in the formulation of the proposed policy.	Publications (#4) lead one (1) article submitted for publication in indexed journat6;1-3 minut wide opphared Policy bint #50% policy bint for public provide transmission policy formulariset/publicational policy formatic/publicationoder consultation wide/bar/barces and becker, Bannolo Samer Yanes, Mancharoseff cramsion of "Who for the formulario discourse transmission intervent setting and an antiparticipation of the policy document to be endorsed and and adapted/concourse intervent/setting and adapted/barces and adapted/concourse intervent/setting and adapted/barces and adapted/concourse intervent/setting and adapted/barces and adapted/concourse intervent/setting and adapted/barces and foreign matrukation adapted/barces and barbos data/adapted/barces ananufactures, and pattervent/a agence/setting barbos data/adapted/barces ananufactures, and pattervent/a agence/setting barbos data/adapted/barces adapted/concourse) society of Contribute substantial revenues for farmes, manufactures, and application abarbos data/adapted/barbos of barbos data/adapted/barbos adapted/barbos adapted/concourse) society of barbos data/adapted/barbos adapted/concourse) society of barbos data/adapted/barbos data/adapted/barbos adapted/concourse) society of barbos data/adapted/barbos data/adapted/barbos adapted/barbos data/adapted/barbos data/adapted/barbos data/adapted/barbos adapted/concourse) society of barbos data/adapted/barbos data/adapted/barbos adapted/barbos data/adapted	University of the Philippines Los Baños (UPLB)	I dammers and communities engaged in growing bamboo-based farming and livelihood. be potential investors in bamboo plantation development and bamboo-based entryrises c. operators of enterprises and manufacturing plants using bamboo as raw materials d. local government units with bamboo resourcese. National and regional government agencies such as DEAR, DA. DT, and Philippine Bamboo Industry Development Council (PBDO). PRAV. Researchers and scientific community	01-Feb-24	31-Jan-2	ONGOING	7,036,683	2,220,721.58
Enhancing the Value Chain Project. Designs for Coffee. Cacco and Covendish Banan Towards the Development of Agri- Aqua Value Chain Laboratory in UP Mindanao	Project 1 Value Chain Analysis and Development: Cacao, Coffee and Cavendish Banana	Integrity of the environment and climate change adaptation and mitigation	The project covers three of the fine components of the program. It will update analysis of caso, only and a gent-based modelling and app development for the other two of the second s	Additions — A lead three (2) papers submitted for publication — At least three (2) papers presented in Publication — At least the (2) papers presented in Publication — Second of value chain subgrading strategies for the selected commodilies — Compliation of value chain subgrading manufactures and the Public papers — Compliation of value chain subgrading Papers and a — Compliation of value chain studies in the Philippines Papers and a — At least fire (2) patherships to be — etablichered with international research calibilitations, and local generinest unit(3) Papers — At least fire (1) (2) researchers, students and precisions students and precisions students provided Pacies — Pace precisions and calibility Pace precisions students and precisions students — Pace precisions and the pace Pacies — Pace precisions and the pace — Pace precisions and the pace — Pace precisions and the pace Pacies	University of the Philippines Mindanao (UPMin)	Imail scale producers in selected agri-food chains (egr Talle farmer association)-researchers and practitioners in value chain research anddevelopment particularly those involving small scale producers andpoor communities, government agencies and other relevantagencies.	01-Feb-23	31-Oct-24	COMPLETED	2,386,000	745,216.00
Enhancing the Value Chain Project. Designs for Contex-Oscion and Covendish Banan Towards the Development of Agri- Aque Value Chain Laboratory in UP Mindanao	Project 2: Value Chain Modelling and Simulations: Cacao, Coffee, and Cavendish Banana	Integrity of the environment and climate change adaptation and mitigation	The project amis buddress the second comparent of the program on eveloping an approximate durate character and the distance. This project amis to denote models of approximate durate share that all ad denotes -making and evaluation the source of the distance of the distance of the distance of the project and the distance of the distance of the distance of the distance of the distance for glasses. If the project will be an eleveloping model is of a road three drains: Character and the distance of the distance of the distance of the distance of the distance for glasses. If the project will be compared to the distance of the distance of the project and the topologic the distance of the distance distance (CHAD hands distance for the approximation the distance of the distance distance of the distance of the distance of the distance of the distance distance of the distance distance. If the distance of the distance of the distance distance of the distance distance of the analysis is project and the topologic and the distance of the distance distance. If the distance distance is the analysis is project and the distance of the distance of the distance of the distance	Nabilitation — Al lead one page for publication. Photodas — Al lead one page for publication. Photodas — Al lead three (1) yained chain models of carentifiant phane, texas, and collered Photodas — Al lead three (1) against chain phane established with academic institutions. Substrategia — All leads three (1) particular based of the phane phane phane phane phane phane phane phane phane phane phane phane phane phane phane method three phane phane phane phane phane phane phane method three phane phane phane phane phane phane method three phane pha	University of the Philippines Mindanao (UPMin)	small scale producers in selected agri-food chains (eg Talle farmers association), researchers and practitioners in value chain research and divelogment particularly those divelogment particularly those communities, government agencies and other relevant agencies.	01-Feb-23	31-Oct-24	COMPLETED	1,290,000	435,214.00
Enhancing the Value Chain Project Designs for Coffee, Casio and Cavendiah Bannan Towards the Development of Agri- Alter Chain Laboratory in UP Mindanac	Project 3. Data analytics for the Cacao, Coffee, and Cavendish Banana Value Chains	Integrity of the environment and climate change adaptation and mitigation	This negation covers the data analysis correspondent of the propagation I and basid on the in- tradical or adjust of the houses (constraints thread), cancel and constraints which sums to developing decision support platforms based on an analysis of services in the value chains, provides outputed methanization models (e.g. 2000), provide scheduling discovers and the services analysis of the services of the service data analysis in the service of the services outputed methanization models (e.g. 2000), provide scheduling discovers of the service of the selectical cross is validat models and services of the septication. The capacity houlding activities will be based on the user manual of the septication featuring how it considered for taskets and access that was an exploration of the septication. The capacity houlding activities will be based on the user manual of the septication featuring how it models and the set of the section of the set of the section of the set of the section of the potential meeting. The stateholds workshops will be a work to present the capabilities of the potential meeting. The stateholds workshops will be avenue to present the capabilities of the models of programs. Project 3 will contribute to the large gap in Ad.0 technologies in the three selected commodities.	Produce - Reintagen models an signal	University of the Philippines Mindanao (UPMin)	The target beneficiaries of the project include small short-orducers in selected agri-food chains (eg Talle farmers association), researchers and practitioners in value chain research and development particularly those involving small scale and goor communities, government epiconies and poor communities, government relevant agencies.	01-Feb-23	31-Oct-24	COMPLETED	1,324,000	462,493.00

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31.	Total Project Cost	2024 PCAARRD GIA
Resource Inventory, Valuation and Policy in Ecosystem Services under Threat (RE- IVVEST): The Case of the West Philippine Sea	Project 1. Resource Inventory and Assessment of the West Philippine Sea	Integrity of the environment and climate change adaptation and mitigation	Project 1 of the RE-INVEST Program seeks to quantify the ecosystem assets and services in the WPS and assets the biophysical impacts of clamages in the area. Specifically, the project atmit to make a product of the area measure the spatial end of the service of the second second of the late decode due to anthropogenic activities, and elucidate other potential damages due to construction, navigation, and marine pollution.	Pablication a Ten (10) manuscripts for submission to reputable scientific journals b. At least one (1) painty brief c. At least two (2) explainer videoux. Press releases and colaterals for minimic bioleversity and terrorized and the project state. Accessent of name bioregoins protocols: Communication plan for the RE-MXGSTWPS ProgramPeople's (2) (Minimic bioleversity and works of the project and RE-ACRESCHER (2) (Minimic bioleversity and works) and part of the the RE-MXGSTWPS ProgramPeople's (2) (Minimic bioleversity and project as dRE-LT actional (RS-GIS, modeling, nationals analysis and/or leations) techniques for use in coastal and mame Ludage with project stel (-CUA). Painty Painty Science-based inpuds into policy for coastal and mame environmental resource valuation	University of the Philippines Diliman (UPD)	Filipino people (in terms of food and job security), LGUs and NGAs, Filipino researchers	01-Apr-22	31-Mar-25	2024' ONGOING	79,427,230	38.814,441.92
Resource Inventory, Valuation and Policy in Ecosystem Services under Threat (RE- INVEST): The Case of the West Philippine Sea	Project 2. Natural Capital Accounting of Coastal and Marine Ecosystems in the West Philippine Sea	Integrity of the environment and climate charge adaptation and mitigation	Project 2 of the FIE-INKSTF regram will develop a systematic and competentive accounting and valuation of the control manests and exact on the MPS filts for control to interfaction and address of the system of the will be made by putting values to different components, and its contribution to the economy and human will be analyzed.	PAcitation: PAcitation: PAcitation: Pacit	University of the Philippines Los Bartos (UPLB)	Flaherfolks within the WFS National policy makers, roo local and NGAs Graduate students, SUCs	01-Apr-22	31-Mar-25	ONGOING	22,416,795	7,258,941.37
Recurse Inventory, Valuation and Policy in Ecosystem Solves under Thread (RE- NVEST): The Case of the West Philippine Sea	Project J. Development of Legal and Policy Finanework for the Assessment, Valuation, and Accounting of Philippine Coastal and Marine Resources	 Helpfyp of the environment and climate change adaptation and mitigation 	Project Component 3 of the RE-NEST Program will enhance the general legit and pointy framework for markine recursor valuation, accounting, and assessment in the helppontes, including the means for determination of liabilities and imposlication of damages and/or penalties for adverse impacts on the markine environment and resources abilitable to an avriate sources. Not deferent or a expand and devalte its status and utility, hence the necessity for the RE-NKSET Program. Project Component 3 min to provide the legit abilities for more specific interface for assessing to the QMS/s and devalte its status and utility, hence the necessity for the RE-NKSET Program. Project degradation of the markine environment and resources, particularly in the Viet (Philippine lag (WF)), it of the RE-NKSET program to ensure that recommendations work within the parameters of relevant Philippine lakes and policies.	Adheater: To (J) reason's oppersity/bications, the first, reviewing the Philippiner' existing legal and poly regime referant to marker resource valuation, accounting, and assessment and the second, comparing healthousing and an pulsy reference to thinstand practices and the pair of the provide practice and the philippine biol. Regi and poly regime. One (I) reasons to persplication of informations in the Vietal Philippine Biol, assessing liquid leadings on the findings of Project Components 1 and 2. Pacient: Paci	University of the Philippines Diliman (UPD)	Government officials and agencies involved in environment and natural resources management (vil) society states in environment and natural resources	01-Apr-22	31-Mar-25	ONGOING	5,792,155	1.650,334.84
Scot-Scoogcal Assessment of the Invertebrate Gauning Fisheries in the Philippines Towards Evidence-Based Sustainable Resource Governance (GleanPhil Program)	Project I: Gleaning Fisheries as a Valuable Food System: Socio-demographics, Fisheries Production, Food Security, and Nutrition of Coastal Communities	Rapid, Inclusive and sustained economic growth	Genering findereise, characteristes by the collection of sectoral sectors from hereidal areas, pluy a cousil ord in the flow sectors/upd coustable communities dependent on abusitance finite, Genering, however, a given ites priority in the Philipping generinerity research, development, and masagement plug of the priority of the Philipping generinerity research, development, and masagement allow a need to highlight the adoption of a community-based participatory research approach as well as allow a need to highlight the adoption of a community-based participatory research approach as well as allow and the highlight the adoption of a community-based participatory research approach as well as genering filterines to support formulation of management measures toward sustainable utilization of genering filterines to support formulation of management measures toward sustainable. Utilization for description and the object of planets in the source is the Philipping for description and the object of planets and the source source is the priority and research without the object of communities of management measures toward sustainable utilization for description and matterial assignments and the source source is the source is the highlight of the glaneting to planeting biotexistic and and applications of the source is a sublication for description and matterial assignment of the glaneting to accessibility of the glaneting filterines and ther mystaid benefits to marginalized coastaid communities in the country.	Publication—2 joined publication is national or international indexed journal—1 program manual or gleaning therefore search motion. In field guidelystackow on the most commonly gleaned materiations in the Philippines—1 planty is behavious —3 peritability-builders — test of demographic, secondurat, and economic, publication and the plant of the plants and the philippines —1 planty is plantability of the plants and plantability of the seconduration of the plants and th	Mindinao Stale University Naawan (MSU-Naawan)	Results of this project shall benefit the following stakeholders: Local government units and their staff at the MAO, MENRO, and MPDO Members of the local Bangguniang Bayan in crafting finitery ordinances (generation) Faherfolk Organizations (including Women s Associations) Municipal Faheries and Aquatic Resource Management Council (M-RAMCs) University floatily and graduate students NGCs and other civil society groups	01-Oct-24	31-Mar-26	ONGOING	6,561,945	2,422,272,05
Soci-Scoogical Assessment of the Invertebrate Glasming Fisheries in the Philippines Towards Evidence-Based Staslandbe Resource Governance (GleanPhil Program)	Project 2: Gleaning Habitat and Biodiversity Assessment and Boyoy Commercially Exploited Marine Invertebrates	Rapid, Inclusive and sustained economic growth	Despite the importance of glosming litherine as assumce of hold and supplemental rooms, the exclusion and biological sources of hold and supplemental rooms, the exclusion and biological discretions of the supplemental rooms, biology and aspects of the population dynamics of commonsility provident species collected by glosming in selected site of a common studying the exclusion, biology and aspects of the population dynamics and an exclusion of the provident troops of the destified target species from each saving features. The provident troops of the identified target species from each and provident and the provident troops of the identified target species from each and by the provident of the set species of the identified target species from each on species (grand confilm) and common species of the identified target species from each and by the provident of the set species of the identified target species from each and by the provident of the set species of the identified target species from each and biology are crucial to help material transfer and the set of the special transfer species of the statustistic utilization. Utilization of these species for field and program. The set of the statustical utilization. Utilization of these scenescient of the instance to utilization of these commercially important gleaned resources in the country.	Productificationethy of comparison is provided glasmed inventibular speciarial biolationski donom (Kalini) - important glasmed in publication in para- sequenciaria biolationationethy and the speciaria of the publication in para- meters (Kalini and Kalini and Kali	University of the Philippines Visayes (UPV)	-Inverterate/Invituak gleaners and ofher stakeholden (norden: processors, fraders)- National government agencies and BFAR regional filose-LGU staff optior makers (§10 de ach site-Academic institutions-Ginduste students site-Academic institutions-Ginduste students	01-Oct-24	31-Mar-26	ONGOING	2,080,321	1,490,589.20
Socio-Ecological Assessment of the Invertebrate Glasming Fisheries in the Philippines Towards Evidence-Based Sustainable Rescure Governance (GleanPhil Program)	Project 3: Value Chain and Governance Assessment of Gleaning Fisheries in the Philippines	Rapid, inclusive and sustained economic growth	This research project proposes for a value chain analysis of glasming with floors on common glesned species, and all test mise assess the glosmance of glasming hitters in soleidad site in the provide sense of the species of glasming and the species of glasming and the species of the speci	Producted Three (3) value chain meahmodefiction (1) papicy matrix of laws, ordinances and realistion related to planning filternet/indicationability, 6(2) (1) papicy law filter memory of the value chain of glannet intertiterate in the countrylates (6A) nanuscept, on the generality of glanning falterins in the countrylates (6A) nanuscept, and possible of the value chain of glannet intertiterate in the countrylates (6A) nanuscept, and possible of the value chain of glannet intertiterate in the faller of the value of	University of the Philippines Visayas (UPY)	—Gleaners, traders, processors, policy makers, researchers, fisheries managers	01-Oct-24	31-Mar-26	IONGOING	3,357,734	2,573,681.10

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of	Total Project	2024 PCAARRD
									December 31, 2024'	Cost	GIA
	Adoption of Improved Hatchery-Nursery Culture System for Commercial Production of Mangrove Crab	Integrity of the environment and climate change adaptation and	This hatchery is expected to supply 2.22% of the total demand for crablets in the province per year, eventually contributing an estimated increase in volume of mangrove crab production of 0.002%	Publications 1,000 pcs IEC materials of two kinds produced and disseminated (500 pcs for hatchery	Cagayan State University (CagSU)	Mangrove Crab hatchery-nursery-grower operators	01-Jul-23	30-Jun-25	ONGOING	12,910,996	1,687,373.00
	Seedstock in Buguey, Cagayan	mitigation	(regional) and 66.94 (municipal) equivalent to 60MT valued at PhP 27 million per year.	operation, 500 pcs for nursery operations in Filipino and English)							
				Two (2) infomercial videos							
				(one for hatchery and one for nursery operations) produced One (1) hatchery operation manual produced							
				One (1) communication plan developed One (1) sustainability plan							
				developed							
				1,000 pcs IEC materials							
				Two (2) infomercial videos							
				One (1) hatchery operation manual produced· One (1) communication plan developed· One (1) sustainability plan developed							
				Products							
				One (1) commercial-scale mangrove crab							
				natchery-nursery facility established							
				80,000 hatchery-reared mangrove crablets produced							
	Adaption of Managers Cook University Cook	Interview of the anticement and	The Instrument is available to supply 4.25.6.52% of the total demand for crahlets in the province which will	One fully-operational commercial-scale mangrove	Casis State University (Cas SU)	M	04 64 00	24 Dec 24	ONICOINC	40.070.504	4 240 400 00
	Production and Nursery Facility in Panay, Capiz	climate change adaptation and	eventually contribute an estimated 4%-6% volume in mangrove crab production of about 102 MT valued	1,000 pcs IEC materials	Capiz State University (CapSU)	and other stakeholders in the Province of Capiz.	01-Jul-22	31-Dec-24	ONGOING	12,072,301	1,349,408.00
		mitigation	at P51 million.	2 informercial videos Patent:							
				3 copyrights from IEC materials 2 copyrights from infomercial videos							
				Product: 1,000,000 hatchery-reared mangrove crabletsPeople: 5 CAPSU-Pontevedra /LGU personnel trained in mangrove crab hatchery-nursery operation							
				50 PO members trained in nursery operation Place:							
				1 commercial-scale mangrove crab hatchery-nursery facility established 1 MOA forced with LGU Panav (formerly Pilar)							
				Policy:							
				Marketing and Promotion Policy established.							
				growers.							
	Agri-Aqua Innovation Challenge 2024	Rapid, inclusive and sustained	NULL	Publication: Patent: Product: People: Place: Policy:	Asian Institute of Management (AIM)	NULL	16-Jul-24	15-Jul-25	ONGOING	14,125,732	14,125,732.00
	Assessing the Utilization of Technologies with DOST	economic growth Rapid, inclusive and sustained	The project will be implemented for 2 years (Aug. 1, 2022 € Jul. 31, 2024) by the National Academy of	Publication: The proposed project will produce a book of technology cases, series of	DOST-National Academy of Science		01-Jan-23	31-Dec-24	ONGOING	4 787 280	1 015 624 82
	Granted Patent and Utility Model Registration (GPUM)	economic growth	Science and Technology (NAST) National Academy of Science and Technology; 3rd Level Science Heritane Building DOST Complex, Bigutan, Taguia, City Philippines, PCAARD, Gla funding of Phy.	monographs, and policy brief. (1 book, at most 5 monographs, and 1 policy brief)Patent: Indirectly, the proposed project will assess the awarded Ps (patent and utility model) by	and Technology (DOST-NAST)	Policy and decision makers at DOST and other	01-0411-20	01 000 24	01100.10	4,707,200	1,010,024.02
	Award		4,950,408.00.	NAST PHL Product: Not applicable with the proposed project since it is focused on policy		agencies developing technologies DOST R&D agencies' technology developers					
				conducted for the narratives of the technology using the life-cycle analysis and IP valuation		Technology users (entrepreneurs, industry)					
				to be participated by different technology developers from DUS1, and webinar(s) will be convened for results validation and policy formulation.Place: The proposed project will be a							
				collaboration of multiple agencies such as UPLB, UPOU, IPOPHIL and DOST-TAPI.Policy: The results will be for policy re-formulation of the GPUM awarding for 2022 and onwards,							
				recommendation for enhancing monitoring and evaluation of generated technologies, IP valuation system/ framework, among others.							
	CLSU Project RICE: Quick Response to Impacts of Calamities and Emergencies (Phase 2)	Rapid, inclusive and sustained economic growth	The first phase of the CLSU PROJECT RICE initiative (spanning from November 16, 2021, to November 16, 2022) was marked by significant achievements, distributing over 14,800 food packs to communities	YEAR 1	Central Luzon State University (CLSU)	Calamity/Natural Disaster VictimsIndigenous People (IPs), Indigent Senior Citizens, PWDs and Solo	01-Oct-24	30-Sep-26	ONGOING	5,000,000	3,192,944.00
		Ŭ	across five provinces in Luzon profoundly impacted by calamities such as the flash floods in Ifugao and Bulacan, and the Taal Eruption in Batangas. Furthermore, with the support of DOST PCAARRD, indigent	ånbsp;		Parents€™ BeneficiariesRice Farmers					
			and Mangyan communities in Mindoro also reaped the benefits of these food provisions. Building on this success, Phase 2 aims to extend the project's coverage to include additional high-risk areas such as the	A. Products							
			Bicol Region, Cordillera Administrative Region (CAR), and the National Capital Region (NCR). This expansion is intended to ensure that a broader spectrum of the population benefits from the project.	- Produced at least 7.500 packs of							
			particularly communities that are frequently hit by natural calamities. The CLSU PROJECT RICE: Quick and Multilious Response to Impacts of Calamities and Emergencies (Phase 2), is an increating initiation	instant organic rice-chicken porridge							
			with the primary goal to address the ongoing food insecurity challenge posed by frequent natural	- Produced at least 7 500 packs of							
			and easy-to-prepare food alternatives. Current relief efforts often rely on distributing instant noodles,	instant brown rice-chicken porridge							
			which, although convenient, are laden with sodium and oner limited numbonal value. In response, CLSU's Department of Food Science and Technology has developed three unique rice-based products:								
			instant brown rice porridge, instant aromatic rice porridge, and nutrient-enriched rice cookes. These products are designed not only for ease of preparation and stability in storage but also for their health	Produced at least 7,500 packs of rice cookies with raisin and oatmeal							
			benefits. They incorporate germinated rice known for its high content of gamma-aminobutyric acid (GABA), which promotes mental well-being and cognitive function after traumatic events. The project's	ånbsp;							
			direct beneficiaries are diverse, including calamity victims, indigenous peoples, indigent senior ofizens, persons with disabilities (PWDs), and solo parents. These groups are among the most vulnerable during	B. People and Services							
			disasters, often facing the greatest challenges in accessing safe and nutritious food. Moreover, the project supports local rice farmers by creating a higher demand for their cross. thus providing them with	-							
			a reliable market and improving their economic stability. This initiative aligns with several United Nations	Assisted at least 22 500 individuals through dispetational active still and an advantage of the state of the							
			include the production of at least 30,000 packs of the rice-based food products, the establishment of at least for an institution of at least 30,000 packs of the rice-based food products, the establishment of at least for an institution and the analysis.	in response to natural disasters							
			offer sustained economic opportunities. The project is not only a response mechanism but also a	-							
			prevenue searegy that enhances the resurence or rood systems in vulnerable regions. Furthermore, the project emphasizes the importance of integrating these innovative food solutions into the local disaster	of one (1) technology adaptor							
			response trameworks. By partnening with local government units, the project seeks to make these nutritious products a staple component of disaster response, thereby ensuring continued availability and								
			support to attected populations during and after the project's conclusion. In doing so, PROJECT RICE (Phase 2) promises to deliver substantial social and economic benefits, contributing to the long-term well-	C. Places and Partnerships							
	Crabs for Change: Transfer of Commercial-Scolo	Integrity of the environment and	being and health of the Philippine population, particularly those in disaster-prone areas. The crabs for change project aims to transfer the commercial-scale manorove crab nursery and prove	Publication: 50	Mindanan State University -	NUL	01-Anr-22	30-Sen-24	COMPLETED	5 000 000	912 084 00
	Mangrove Crab Nursery and Grow-out Technology	climate change adaptation and	out technology using hatchery-bred crab instars to support the livelihood of selected former combinants in Maximum and the providence will be implemented.	pcs of manual of operations (in the vernacular) for commercial-scale mangrove	Maguindanao (MSU-Maguindanao)		01-Apt-23	30-3ep-24	SOMPLETED	3,000,000	012,004.00
	Using Hatchery-Bred Crab Instars to Support Livelihood of Selected Former Combatants in	mitigation	by the Mindanao State University - Maguindanao and will be funded by the DOST-PCAARRD. The	pcs of manual of operations (in the vernacular) for commercial-scale mangrove							
	Maguindanao		combatants both men and women in the Province engaged in crab farming will be selected to venture	copyright from the							
			and grow-out farming. The hatchery-bred crab instars produced from the DOST-PCAARRD -funded	commercial-scale mangrove crab nursery technology 1 copyright from the							
			mangrove crab hatchery project established in Parang, Maguindanao will be utilized and be provided to the selected core partner-farmers. In addition to the crab instars, the selected core partner-farmers will	manual of operation (in the vernacular) for commercial-scale mangrove crab grow-out technology 6 copyrights from the video-							
			also be provided with farm inputs to establish their crab nursery and grow-out farms. Each core partner-farmer	documentation of the 6 trainings conductedProduct: 5							
			will be provided with farm capital and production inputs enough for one (1) nursery and grow-out production runs. MSU-Maguindanao will also provide technical assistance with on-farm monitoring and	commercial-scale mangrove crab nursery farms utilizing hatchery-bred crab instars 1							
			mentoring sessions. The technologies recommended for mangrove crab nursery and grow-out from the DOST-PCAARRD's	commercial-scale mangrove crab grow-out farms utilizing hatchery-bred crab crablets 6,300							
			Philippine Recommends will be adopted in the implementation of this project. Every core partner-farmer is expected to generate an estimated pet income of	nursery-reared crablets produced from each nursery farm							
			around P30,000.00-40,000.00 from each production cycle that lasts for 3-6 weeks for nursery farming while P30,000.00 proceedings of the around the second s	1,500 market-sized crab produced from each grow-out							
			while Hadoucous up as production cycle for the grow-but raming. Inrough this project, the sustainability of the recently established DOST-PCAARRD	farmersopie: o core partner crab farmers who were former combatants (men and women) trained on commercial-scale							
			 -runded mangrove crab natchery facility in Parang, Maguindanao is ensured. This project will also lead to the adoption of crab grow-out technology and the development of a mangrove crab nursery industry 	mangrove crab nursery technology and entrepreneurship 1 core partner crab farmers who were former combatants (men and women) trained on commercial-scale							
			in the Province, thereby, revitalizing the crab industry in Maguindanao and the nearby municipalities and provinces.	mangrove crao grow-out technology and entrepreneurship							
			Further, this project will also demonstrate how S&T can be used to promote "Arms to Farms" in the pursuit of sustaining peace and order in Mindanao								
				6 trainings conducted on a) construction of mangrove crab nursery and grow-out farms, b) commercial-scale mangrove crab nurserv							
				operations, c) commercial-scale mangrove crab grow-out operations in ponds, d) basic literacy and numeracy, e) entrepreneurship, and f) leadership development Placer 5							
				fisherfolk communities from 3 municipalities (Parano, Sultan Mastura, Cotabata City) in							
				Maguindanao							

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
	Developing Technology Transfer Capacity of the	Integrity of the environment and	The PSHSS is the premier science high school of the Philippineswhere students are prepared for a	Publication: 17 IECs (Technology briefer/ one-page under the TCMS)Patent: 33 IP	Philippine Science High School System	The training will upskill PSHS STEM and research	01-Jun-23	31-May-25	2024'	4.104.032	924,758.00
	Philippine Science High School System (PSHSS)	climate change adaptation and mitigation	career in science, technology, andmathematics (STEM). In line with this, students are trained to developa high aptitude in science and mathematics and are taught to applythese skills in conducting STEM-based	applications (UM & Patent only under the IPMC)Product: 1 IPs and technologies inventory 33 technologies with technology valuation reports (under the TPMS)People: 33 , staff trained	(PSHSS)	teachers and staff on technology transfer and, when				, . ,	
		magazon	research, which outputs areexpected to benefit the general society. As a result, the PSHS Systemhas produced numerous technologies in the last five years that areeligible for commercialization and for	in national IPMC 33 staff trained in national TCMSPlace: 1 commitment letter for the national trainings, Policy:		able to properly guide PSHS students in conducting					
			public use. To further encouragestudents to embark in meaningful research endeavours, the PSHS-OED aims to create a framework that will guide every campus in theSystem to implement technology transfer	Crafting/ enhancement of the PSHSS Technology Transfer Framework		intellectual property rights and commercialization.					
			on their own so thatstudents ^{III} worthy and qualified research outputs can becommercialized for public use.			Moreover, the public use of commercialized PSHS projects will be an opportunity for the PSHS to be of					
						service to farmers, fisher folks, small to medium enterprises, and the Filipino households, among					
						others.					
	Empowering Fisherfolks through the S&T Community-	Rapid, inclusive and sustained	The Harmonized		Sorsogon State University (SorSU)	The project	16-Sep-24	15-Sep-26	S ONGOING	5,000,000	2,508,784.00
	Based for Inclusive Development (STC4iD) Modality in Barangay Bebia, Magallanes, Sorsogon	economic growth	National Research and Development Agenda (HNRDA) 2022-2028 prioritized research programs and projects for five years through the Department of Science and			beneficiaries are women and men, farmers/fisherfolk in Broy, Bebia, Magallanes					
			Technology (DOS1). This agenda primarily aims to eradicate inequality, create more opportunities, and accelerate development. By this mandate, the science			Sorsogon. The said beneficiaries are active					
			for this agenda. Thus, the proposed project of Soroson State University (co-SII) promotes project amovement technology adoption and enterprising	EXPECTED COTPOTS (0PS)		cooperative of Brgy. Behia, Magallanes, Sorsogon					
			development in the poorest communities in Magallanes, Sorsogon. This project is a fisheries program aligned with SorSU-RDE Agenda such as 1) RET-11	YEAR 1		Consumers Cooperative (SRBCC). It has 30 active					
			Modernized Food Production and Security; 2) RET-A2, Sustainable Agri-Fisheries and Natural Resources; 3) RET-A5 Gender, Ethnic Equity and Empowerment and 4)	YEAR 2		members in the organization who are actively engaging in the production of fish drying					
			RET-A7 Socio-Cultural, Political, Economic and Tourism Development. The university RDE agenda was a product of a series of consultations and forums			and selling frozen chicken.					
			that started in 2023-2027 and focused on the communities with marginalized populations, geographically and socio-economically disadvantaged social groups								
			In the AVAK sector. The Sorsul tisnenes program offers to serve the poor and priority coastal communities to establish sustainable and resilient AVNR-based	Products							
			advanced technology in aquaculture, socio-enterprise increase competitiveness; and investment in burnan canital development	1 Community Needs Assessment							
				Report verified							
				19,200 packs Tilanggit produced (100g)							
				1,704 pet bottles of fish sauce produced							
				5,568 bottles fish paste produced							
				438 kilograms Fish Meal							
				1 Business Plan developed .							
	Empowering S&T-Based Bamboo Enterprises Through Bamboost® Ecosystem -Across Select	Rapid, inclusive and sustained economic growth	This project builds upon the accomplishments of Bamboost Project Phase 1, which successfully introduced bamboo farming communities in Ioilo, Bukidnon, and Iligan to the Bamboost android app€'an	Publication:	University of Science and Technology of Southern Philippines - Caravan de	Bamboo farming communities, Bamboo MSMEs and LGUs	01-Jul-24	30-Jun-26	5 ONGOING	4,998,680	2,684,340.00
	Regions in the Philippines - Phase 2		innovative mobile marketplace designed for sustainable, eco-friendly, and S&T-based bamboo products. The Bamboost®, a PCAARRD and UTSP-developed and supported technology, can play a pivotal role in	Ā	Oro (USTP-CdeO)						
			attaining the objectives of market linkages for small bamboo farmers and enterprises. This app can significantly expand the reach of small bamboo farmers and enterprises by providing a digital platform to	Year 1 Year 2							
			can now connect with a broader customer base, including regional and even international buyers. This any and market access can lead to increased rates and revenue for small.scale between	IOal							
			producers. During this phase, the project focused on empowering local communities through various capacity trainings and essential skills in value addition, online transactions, pricing strategies, and user	Publications							
			experience testing. Additionally, strategic collaborations with government agencies like DTI, DICT.DENR, DOST regional offices, private sector, bamboo industry development council, bamboo	1 assessment report prepared 1 business plan prepared							
			MSMEs, and farming communities in Iloilo, Bukidnon, and Ilgan were established, creating a robust network vital for sustainable growth. However, Phase 1 also identified crucial gaps that need t be	Ā							
			considered moving into Phase 2. Among these gaps is the necessity to extend training programs to farmers who were not part of the initial phase, ensuring that the knowledge and benefits of the	1 assessment report prepared							
			technology are widespread and inclusive. Additionally, the promotion of Bamboost itself emerged as a vital gap, highlighting the necessity for comprehensive marketing strategies to maximize the app's reach	1 business plan prepared							
			and impact.Looking anead to Phase 2, the project envisions a comprehensive approach. The focus will be on bridging these identified gaps: 1. intensifying training efforts to reach previously uninvolved between formation and the project. 2. Do a semi-providentiation and identifications and the comprehension of the providentiation of the prov	Delest							
			marketing strategoies; and 3. recognizing the need for a comprehensive digital ecosystem, this project includes the development of a definitiated Bamboost website and an IOS application design. The website	Patent.							
			will serve as a hub for information, product listings, and a seamless user experience, catering to a wide range of users, including potential buyers and bamboo entrepreneurs. Simultaneously, the iOS	Å Year 1							
			application will enhance accessibility, catering to the growing user base of Apple device owners. By providing these additional platforms, the project aims to maximize reach and inclusivity, ensuring that	Year 2 Total							
			bamboo producers and consumers can engage effortlessly with the Bamboost ecosystem. Finally, this proposed project aims to support the nation's commitment to sustainable economic growth and also	-							
			positions bamboo as a vital catalyst for both economic and environmental conservation strategies.	A							
				1 website1 iOS application 2 trademarks filed 3 ICC/securitized under materials proceed							
	Enhancement of goat food value chain systems	Rapid, inclusive and sustained	The proposed project will continue the efforts made during the pandemic in addressing food value chain for elsuphter and and to exclude the emerging data and production in the region. The proposed	Publication: 1 module on dairy goat production	Isabela State University (ISU)	Slaughter goat raisers	01-Jan-24	31-Dec-25	5 ONGOING	3,184,704	1,842,352.00
	towards agricultural productivity and food sufficiency in Region 2 - Phase 2	economic growth	project will provide solution to the gaps or problems encountered during the implementation of DOST- DCAADDD Stratt Encol Value Chain Share 1.	2 materials (video and print) for project promotion 2 papers whilehed in scientific journalPatent 4 constraints filedProduct. Increase in cost		Dairy goat association and cooperatives Industries (agriculture-based and food industries)					
			project is the establishment of the important segments in the food value chain from production, processing to marketing. However, several gaps are identified, which are all relevant to make the chin	population (at least 30% of the present population in study sites) Increase in dairy goat population by 10%People: 4 key government agencies coordinated		Local government units					
			sustainable. Among the identified gaps that need to be addressed include continuous upgrading of stocks to the former project beneficiaries and introduction of other goat-allied enterprises to support the	6 LGUs coordinated and identified as new sites 6 project partnership agreement signed							
			effort of the raisers to increase their farm holding capacity. New communities will also be tapped for the conduct of the same activities with the aim to increase the herd size. On dairy goat production, evaluation	150 goat raisers trained on slaughter goat production 6 slaughter goat trainings conducted							
			or one current management practices must be done to develop package of technology interventions to make the enterprise sustainable and profitable. Aside from improving the production of raraw materials, the programmed of products in proposed to be dimensioned for the maximum balance for the last term.	a cooperatives/associations trained on dairy goat production 3 dairy goat production trainings conducted 3 trainings on milk progenting conducted							
			processing or products is proposed to be oversitied for chevon; while for dairy, food hygiene and sanitation will be imparted among processors to ensure that the milk products are safe for human consumption. Lattly, market will be enlarged to make the enterprises profitable. Coursel the same train the interprises profitable.	a unamings on milk processing conducted 3 farmer organization registered 4 raisers enrolled to DOSTPC/AARDJISH ATPI Program							
			help develop goat as sustainable livesce enterprise that will help address the agricultural productivity and food sufficiency in Region 2.	2 scientific for a/convention attendedPlace: 1 collaboration agreement with key agencies 5 partnership agreements with LGUsPolioy: 1 developed/policy inputs in support of the food							
				value chain operations							
	Enhancing Climate Resiliance through Native Tree	Integrity of the environment and	The most recent Severe Tropical	Publication: One (1) video documentation for the project	Mindanao State University -	Fermers of Datu Blab Singuat Maguindanael cool	16-Oct 24	15-Apr 23		5 000 000	2 662 232 00
	and Fruit Tree-based Agroforestry Technology: A	climate change adaptation and	Storm (STS) Paeng in November of 2022 has caused havoc and disasters in some areas of the province especially in Brgy. Kusiong, Datu Odin	One (1) documentation report One (1) research article sent to research journalPatent: 1 copyright registration of one (1)	Maguindanao (MSU-Maguindanao)	Government UnitIndigenous People (IPs), Indigent	10-00#24	.5-Api-27		0,000,000	2,002,202.00
	Emergencies and Hazards in Datu Blah Sinsuat,	mugauon	Sinsuat Municipality where several lives are lost and over 655 million damages to houses, agriculture, livestock and infrastructure in Brgy Kusiong alone. Nearby the disaster areas	video documentationProduct: 20,000 native tree seedling production 30,000 fruit tree seedling production		beneficiariesLocal entrepreneurs					
	Maguindanao		is the municipality of Datu Blah Sinsuat, Maguindanao, which has a similar topography and soil characteristics of Sitio Tinabon, Brgy. Kusiong, Datu Odin	1 campus nursery enhanced. 3 temporary nurseries established.							
			Without appropriate interventions, the risk of similar disaster occurring in	to nectares or established/renabilitated sites using native and truit tree-based agroorestry. 10 individual landowners&d,¢ agroforestry planPeople: 225 people attended the seminar							
			many areas of Datu Blah Sinsuat Municipality is barren, filled only with grasses that screetings range as fidder for linearchy. There areas register minimal efforts from the	50 people trained on planning for agroforestry plantation establishment.							
			LGU and from the region to improve vegetation such as occasional tree planting activities. Hence, this project is proposed to provide S	seedlingsPlace: At least 2 Institutional collaborations established/strengthened with MOA At least 10 Memorandum of Understanding with project beneficiariesPolicy: 1 policy draft							
			& T intervention that could improve the vegetation and community resiliency against the impacts of climate change	(Sustainability of the agroforestry projects)							
			like intense rainfall that might bring landslides and flooding like what happened in the nearby Brgy. Kusiong. This is by establishing native and fruit tree-based agroforestry								
			farm in the community especially to the areas that are barren and sloping. The native and								
			I us use securings will be raised in the MSU-Maguindanao Agrotorestry Nursery and in the temporary nursery in the selected sites of DRS Abbra: Similitaneous								
			with the seedling preparation is the seminar on promoting agroforestry technologies, crafting of individual land-owners agroforestry plan and training on seedling								
			production and other nursery techniques to increase ecosystem and community resiliency against the impacts of climate change.								
L	1		1	I	1	1	1				

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31	Total Project Cost	2024 PCAARRD GIA
	Februaries the Coffee Feed Value Chain thesush	Internet of the annihilation of the second	The Crude State	Dublication	Caulta Dista University (CrCU)	The following DOs form the CALADAD ZON apping	04, but 02	20 hm 06	2024	5 000 000	005 002 00
	Smart Technologies and Partnerships towards Food	climate change adaptation and	University "National Coffee Research, Development and Extension Center (UNIVERSITY OF DECORPORT The second phase of the DOST-PCAAPPD (under Coffee Food	1 needs assessment report prepared for the selected POs in MIMAROPA	cavite state university (CVSU)	will be the beneficiaries of the project:	01-Jul-23	30-Jun-25	ONGOING	5,000,000	965,692.00
	Resiliency in Region IV A&B (CALABARZON & MIMAROPA) Phase II	mitigation	Value Chain Project to monitor the support services provided to its	1 training brochure developed incorporating all NCRDEC, ", s modules on coffee production		Bailen Coffee Growers Association (BCGA)					
			continued implementation of transferred technologies will be made to	and processing At least 2 promotional videos developed		General Emilio Aguinaldo, Cavite					
			efficiently measure its maximum impact on the lives of the men and women in the region™s coffee sector. More programs and interventions which were not employed	1 social media page maintained 1 strategic plan developed prior to the full-blown implementation of the project.		Minantok East Coffee Growers Association (MECGA) Amadeo, Cavite					
			before due to budget, time, and COVID-19-related constraints will also be done here. Included in the primary targets of the project for its second phase are	2 benchmarking activity reports for the 2-year project duration 2 site assessment reports/development plans for the pilot farms drafted		Casile Guinting Upland Marketing Cooperative					
			to further increase the coffee production area in CALABARZON; to continuously apply the rejuvenation technology; to improve the quality of the PO TM s coffee	2 business plans prepared in phase 1 updated 1 sustainability plan prepared at the end of the project		(CGUMC), Cabuyao, Laguna Juan Santiago Agriculture Cooperative (JSAC), Sta.					
			products by increasing the adoption rate of suitable and need-based processing	Patients & environments filed for the userile distance of the environt		Maria, Laguna					
			assisting POs in product development; to capacitate the project beneficiaries	Product:		Gueva Cottee Farmers Association (CCFA), Sta.					
			through organizational upscaling and conduct of various capacity building activities; and to increase the coffee profitability by improving the market	At least 1 POT and SMART technology (rejuvenation) used at the tarm level At least 1 t POT and SMART (wet processing/other suitable processing method) used		Aga Farmers Multi-Purpose Cooperative					
			and institutional linkages in CALABARZON. In phase 2, the team will also scale out the best practices identified during the first phase of the project to the selected	At least 10% adoption rate (per POs) for the whole duration of the project At least 15 has of new coffee plantation established		(AGFAMCO), Nasugbu, Batangas Kavlaway Farmers Association (KFA) Nasugbu					
			POs in MIMAROPA. These undertakings are envisaged to capacitate and empower regions IV ASR TM s key coffee value chain players in all aspects of coffee production.	At least 1 coffee nursery established for the whole duration of the project At least 2 new coffee products developed		Batangas					
			and processing, marketing, and organizational management. The	At least 1,000 pcs of innovative packaging materials transferred to the selected POs		Samahan ng Magsasaka ng San Andres Bakbak Cuvambay Association, Tanay, Rizal					
			CvSU for 22 months. The project generally aimed to enhance the status of	transfer)		Adarna Coffee Cooperative, Candelaria, Quezon					
			CALABARZON [™] s coffee sector, especially during the pandemic. Serving as its beneficiaries were the ten identified coffee producer organizations (POs) and	At least 650 copies of IEC materials distributed 1 packaging material developed for each 2 POs who will be assisted in introducing their		formerly Masalukot Farmers Association Guinavangan Coffee Growers Association and					
			the two pilot farms from CALABARZON. These POs were subjected to a series of needs assessments; survey interview, KII, and Focus Group Discussion (FGD). Through	single origin coffee People:		Farmer Entrepreneur (G-CAFf°) Inc., Guinayangan,					
			these, some of the critical problems at the coffee production, processing and marketing levels were found. To address the identified gaps, the team conducted	At least 12 farm enterprises supported for the whole duration of the project At least 6 food processors supported and mentared		Quezon					
			various capacity-building activities in all nodes of the chain. The TBI and	At least 2 POs assisted in the development of their starting/new coffee products		Owners of 2 pilot farms will also be the beneficiaries					
			project™s definitive goals. Here, activities such as the provision of intensive	3 incubatees in phase 1, and at least 3 new incubatees enrolled and supported for phase 2		of the project:					
			training at the production and processing level; recommendation of two additional MS for coffee; introduction of value-adding activities and various	At least 3 associations applied for CDA accreditation At least 1 additional MS for coffee recommended		Canopy Farms, Indang, Cavite					
	Establishment of Sustainable PhilGAP Vegetable-	Rapid, inclusive and sustained	Food Safety and Environmental Conservation are a few of the concerns of consumers in buying fresh	YEAR 1	Department of Agriculture - Regional	Magallanes Vegetable FarmersAgricultural	01-Jun-24	31-May-26	ONGOING	5,000,000	3,592,376.00
	based Farming Systems in Magallanes, Cavite (PhilGAP Magallanes)	economic growth	support food safety and environmental management but also ensures the quality of the produce while		Field Office CALABARZON (DA- CALABARZON)	Extension WorkersOther Stakeholders (market- buvers, consumers)					
	,		that will eventually result in the year-round production of various vegetables. The proposed scheme also	A. Products							
			aims that there will be very minimal surplus, such surplus results in the fluctuating prices of vegetables in the market. The project is expected to deliver a sustainable vegetable system that can support the	-ånbsp;							
			food security of the municipality of Magallanes, Cavite. The farmers of Magallanes, Cavite aim for the municipality to become the vecetable basket of Cavite and the PhilGAP hub of CALARAZON This	Produced 19 MT various vegetables							
			sustainable system is expected to be replicated and adopted in other municipalities aiming for more	anhan-							
			sustantaure and sate vegetable tarming systems.	anosp,							
				B. People and Services							
				- Conducted nine (9) capacity building							
				activities							
				-ånbsp;							
				Trained 100 beneficiaries							
				-ånbsp;änbsp;änbsp;änbsp;änbsp;änbsp;änbsp;							
				 Iow cost consolidation area 							
				C. Places and Partnerships							
				ånhen ånhen ånhen änhen änhen änhen änhen							
				Forged seven (7) MOAs/MOUs with PLGU-Cavite,							
				MEGU-Wagailanes, Cavite and tive (5) BEGUS							
				- Established 10 (ha) area covered/planted with							
	Expanding Women-led Integrated Backyard Farming	Rapid, inclusive and sustained	The proposed project is an expansion of one of the completed GALING-PCAARRD Kontra- COVID-19 projects implemented by Bulacan Anticultural State College from Antil 2021 to March 2022. Through this	YEAR 1ProductsProduced 60 trays of seedingsProduced vegetables per municipality:- 7,340 Intal kos of assorted venetables (engliant tomatoes finger pener, bit pener, okra luffa	Bulacan Agricultural State College	Target beneficiaries are 60 women farmers	01-Jun-24	31-May-26	ONGOING	5,000,000	3,632,784.00
	(STCBF) Modality	economic growin	project, safer and healthier foods will be made available through the revitalization of the 6œBahay-Kubo6 concent practicing a farming surfam free from using surfacting for fittings and chamical participant	squash, sweet corn, and cucumber)- 51,600 bundles of assorted leafy vegetables (pechay, unland kanakang and uset potent taburan), 7,800 pps of pole site/Produced EPC	(BASC)	family members directly engaged in farming) of					
			Through the participatory conduct of the different project components such as the establishment of a	products per municipality - Option A: 34,560 pcs eggs- Option B: 17,280 pcs eggs, 6,280		underprivileged, urban, and rural backyard farm					
			and agri-entrepreneurial assistance, women farmer-beneficiaries will be enabled to establish their own	FRC chicks, 11,897.30 kgs of FRC meat- option C: 12,560 neads of seven-day-old FRC chicks, 23,794.60 kgs of FRC meatPeople and ServicesVerified 1 TNA to 60		target of the project is to encourage every member					
			S&T-based integrated backyard garden that will serve as a source of safer food and additional income for their farm families. The project will enable the target beneficiaries to have an additional	beneficiariesConducted 12 trainings (4 each per project site (GAD & organization management, vegetable production, FRC production, recordkeeping & financial		of the family to plant and grow chemical pesticide-					
			income of around Php 52,596.00.00 from vegetable production plus around Php 8,848.00 to Php 117.593.20 from free-rance chicken (FRC) production for their farm family through the proceeds of the	management)Trained 60 trainees (20 women per site)Established 3 seedling nurseries (1 each per municipality/Conducted 1 Lakbay-Ara/Conducted 3 farmers€™ field davPlaces and		chicken, and sustain the €œBahay Kubo€ system in					
			sales of their excess produce. In addition, the identified women's association per project site can also	PartnershipsSigned 3 MOAs with LGUsSigned 3 MOAs with women€™s		their backyard. However, instead of the traditional					
			per production cycle) catering not only to the seedling needs of the women farmer-beneficiaries but also	trays of seedlingsProduced vegetables per municipality:- 12,940 total kgs of assorted		father) as the farmer-cooperator, this project will					
			to the seedling demands of the community.Adoption of agricultural food production safety practices, environmental conservation, women empowerment, and revitalization of the €œBayanihan spirit€ among	vegetables (eggplant, tomatoes, finger pepper, hot pepper, okra, luffa, squash, sweet corn, and cucumber)- 66,900 bundles of assorted leafy vegetables (pechay, upland kangkong and		give a chance to the marginalized women and					
			the women beneficiaries are also expected to be cultivated while nurturing their agri-entrepreneurial mindset through implementing this proposed project	sweet potato talbusan)+ 13,680 pcs of pole sitaoProduced FRC products per municipality- Ontion A: 34,580 pcs equs; Ontion B: 17,280 pcs equs; - 6,280 beads of FBC chicks		women tarmers to shine and oversee the project as a way of empowering them through the provision of					
			minuses anough imperimenting the proposed project.	11,897.30 kgs of FRC meat- Option C: 12,560 heads of seven-day-old FRC chicks, 23,794.60		access to technology to be extended to them. The					
				agripreneurship)Trained 60 trainees on agrientrepreneurs hip (20 women x 3		project aims not to put an additional burden on the duties and responsibilities of the women's family					
				training)Conducted 3 harvest festivalsPublicationDeveloped 4 IEC materials (1 flyer each on organic vegetable production, farm waste management, vermicomposting, and FRC		members, but to enable them to practice their					
				production management)Developed 1 training moduleDeveloped and produced 1 video documentation of the projectPrepared 1 article for submission in a scientific		decision-making power, enhance knowledge on S&T-					
				journalPatentCopyrighted 4 IEC materials (1 fiver each on organic vegetable production,		leadership capability as well.					
				1 training moduleCopyrighted 1 Nursery operation manualPoliciesDrafted 1 policy							
				recommendation to respective MLGUs on the adoption of S&T-based integrated							
	Levelling-Up of Innovative Acriculture, Acustic and	Rapid inclusive and sustained		Publications:6¢ -At	University of the Philippines- Institute	Twenty-five (25) AANR-based starture and coincide	01-Nov-24	31-Oct-26	ONGOING	8 822 412	5 037 916 60
	Natural Resources-based Startups/Spinoffs thru	economic growth	2022, the DOST-PCAARRD and UP ISSI collaborated to design and implement a	least 25 IEC materials (brochures)6¢ -At	for Small-Scale Industries (UP-ISSI)	and at least eight (8)	51-1404-24	51-00-20	0.1000110	0,022,413	3,037,810.00
	Promotion, Valuation Assistance, and Development		start-up enterprises. This project is a response to RA 11293 or the Philippine	Quarterly Mentorship Reports (covering 25 enterprises)6¢ -2		professionals for valuation certification training.					
	(cirac) mase z		Innovation Act and RA 11337 or the Innovative Start-up Act which both underline the importance of innovation as a vital component for national development and	Proceeding for the Inception Meeting6¢ -1 LIPAD Promotional video-1 Coffee Table Book							
			sustainable economic growth. Such technologies were the result of extensive research and development by State Universities and Colleger (CliCo) antionwide	of Batch 1 SGF with 7 beneficiaries Products:- At least 25 AANR-based products supported							
			Specifically, the project €csLevelling-Up of Innovative Agriculture, Aquatic, and	assisted in proposal packaging, evaluated, and enrolled in the project-At least 50 trained and							
			Development€ (LIPAD) aimed to strengthen the agricultural start-up€™s competency	entrepreneurs (1 CEO or founder and 1 manager) • At least 9 enterprises mentored							
			in markeung, operations, human resources, and finance at an accelerated pace in a manner attuned to the start-ups€™ industry-specific needs. LIPAD	PCAARRD ATBI-SUC site- At least 25 Business Plans updated- 2 inception meetings							
			capacitates and assists the entrepreneur in preparing a business plan (which includes specific plans for Marketing, Operations, Organization, and	conducted-25 enterprises provided with a certificate of compliance from the project€™s accountant and engineers(At least 8) trained							
			Financial), projecting financial statements including the computation of	professionals in the valuation cartification program. At least 5 Cartified Valuators .25 ant-minor and final valuation of the							
			to enable him/her to leverage opportunities. Furthermore, the project helps the	their							
			enterprise develop a combination of short-term and long-term action plans for business continuity and growth. Key features of the project also include	planning and conduct of localized business matching activities-6 enterprises mentored and monitored (Batch 2 LIPAD)Places and Partnerships:-3 partnerships with							
			assistance in purchasing and checking the appropriate equipment and effective facility renovation to support scale-up objectives.	business associations and relevant advocacy groupSocial Impact. Increase awareness of technological advancements							
			· · · · · · · · · · · · · · · · · · ·	within the individual sectorPromote inclusiveness							
			7 1.	Impact:-Generation of employment through the promotion of							
			LIPaD Phase 2 differs from the pilot phase as it incorporates another feature	startups/spinofsPromotion of sustainable enterprises in various sectors through competitiveness and innovation.							
			to further support the growth of AANR-based technology start-ups. After the project€™s intervention, the enterprises will require additional resources such								
			as capital to continuously pursue innovation and scale-up operations as they increase marketability. In the shift to a knowledge-based economy patents	-Promote personal and							
			owned by LIPAD beneficiaries become vital assets that could unlock substantial value during business or startup valuation. Startup valuations are gaining	professional well-being through increased wealth generation and job opportunities.							
			traction in entrepreneurial finance with developments in the startup enabler								
	L		ecosystem, such as the concentration of universities, research centers, and			1					

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
	Nature-based Solutions for Sustainable Mangrove	Rapid, inclusive and sustained	Mangrove conservation and restoration play a pivotal role in mitigating coastal risks, especially in the	Publication: 1. Project brochure	Mariano Marcos State University		01-May-24	30-Apr-26	2024' ONGOING	4,969,936	2,720,468.00
	Management and Resilient Coastal Communities Through Innovative Green Engineering Approach	economic growth	vunerane provnce of locos Norte, where annual climate change impacts and powerful storms take a toll. Properly rehabilitating and sustainably managing these mangrove resources can yield a multitude of environmental social and economic advantages, exercising of the contrained of constant economic advantages.	L Paper: Site suitability analysis in mangrove plantation in locos Norte Annuak in coastal mangrove management with green engineering technology A Paper: A green engineering approach to assist mangrove attability and using technology	(MMSU)						
			the broader ecosystem. Revitalized mangroves serve as a formidable barrier, safeguarding lives, properties, and critical infrastructure like fishing ports and agricultural lands. They shield coastal areas	fence 5. Paper: Estimates of blue carbon opportunities with a facilitated establishment of new		This project is expected to serve primarily the					
			from the escalating threats of storm surges, erosion, and saltwater intrusion driven by rising sea levels and extreme weather events. Mangroves act as potent carbon sinks, absorbing significant amounts of	mangrove areas in llocos NortePatent: 1. Copyright of project brochures 2. Copyright of manual on mangrove planting with assisted soft-engineering		coastal municipalities that are vulnerable to coastal					
			carbon dioxide. Expanding mangrove cover aligns with climate change mitigation efforts, helping combat global warming and reducing the region's carbon footprint, vital for international climate commitments and autoimable demonstrate and Man memory holtex the birding the provide a structure for	approachProduct: Vulnerability maps of coastal communities and mangrove areasPeople: 1. 1 project staff trained for drone flying and image processing 2.2 available tool for indicating and image processing		Since the province of llocos Norte is a coastal					
			and bastanable development goals. Also, mangitives nation inclusion with blockersky, providing a navel for various endangered and endemic flora and fauna. Rehabilitation efforts contribute to biodiversity conservation, biolstering ecological equilibrium and supporting broader marine and terrestrial	2. 2 project staff trained in advanced GIS 4. 2 project staff trained for project monitoring and evaluation		output of the project to increase their resilience					
			ecosystems. The project empowers local communities, farmers, and fisherfolk through active engagement, training, and participation in mangrove conservation. This instills a sense of ownership and	 Members of the community trained in mngrove propagatoin with organized cooperativePlace: 1. Established local partnerships (2 LGUs, 1 NGO, 2 SUCs) 		against the wordening occurrence of nazards.					
			pride, enhancing their resilience to climate change and enabling informed decisions about natural resources. Economically, the project fosters sustainable livelihoods linked to mangrove conservation and contention. If the provide the statistic provide such as a setup with the formation of a subtraction by the statistic setup.	 Conducted corss visits in 2 countries with similar project establish at least 2 international collabirationsPolicy: 1. Policy brief for coastal wetland 							
			reschabilit, income generating activities sourt as eccounts in creat raining, and suscentable issuing practices reduce dependence on climate-vulnerable livelihoods, improving local well-being and long-term economic stability. The promotion of bambon for green engineering also boosts bambon farming and	management policy and recommendation							
			associated livelihoods. In essence, this comprehensive approach not only bolsters resilience against coastal hazards but also contributes to climate change mitigation, biodiversity conservation, community								
			empowerment, and sustainable economic growth€ a model for holistic and sustainable coastal management.								
	Pre-Commercialization of FertiGroe® N, P and K	Rapid, inclusive and sustained	The project will be implemented for 24 months (October 01, 2022 - September 30, 2024) by the	Publication: Two (2) published research articles in refereed journals.Patent: At least one (1)	University of the Philippines Los Baños	Sugarcane growers and farmers, farmerÄ¢,¬,¢s	01-Mar-23	28-Feb-25	ONGOING	18,629,651	9,139,825.52
	Nanofertilizers	economic growth	University or the Philippines Los Isaveos - College of Agriculture and Food Science in University or the Philippines Los Bañeos - College of Agriculture and Food Science; Institute of Crop Science, College of Agriculture and Food Science with a total PCAARRD-GIA funding of Pho 39,717.25.18. Nanofertilizers	patent for the scale-up production of Fertil-product: Intree (3) Fertil-production of Fertil-	(UPLB)	association, local government units, agricultural extension workers, students, and spin-off companies					
			increase crop productivity by enhancing the availability of essential nutrients to the plant. Although at its nascent stage, the application of nanotechnology in agriculture, offers the potential to make agriculture	TAGCHEM Dragon Distribution Inc.Policy: (None)		who will manufacture FertiGroeÅ N, P and K nanofertilizers.					
			more efficient, can increase yield and product quality and thereby increase nutritional benefits (Yuvakkumar et al. 2011; Banotra, 2017). The nanoparticles provide an efficient means to distribute								
			teruizers and even pesicioles in a controlled rearion with right site specificity and nence could provide a sustained supply of the needed nutrients to the growing crops with a reduction in the rate of applied fertilizers. Reduction in environmental damane could also be attained thus making anriculture more								
			environment-friendly.								
	Rehabilitation of Critically Degraded Areas and Bambusetum Establishment using Microbiol	Rapid, inclusive and sustained	This proposal will complement the ongoing NRCP-funded program titled & GeGreening-Mined Out Areas Program (GMAP) in the Philippinese with 1 completed project in Marinduque (2016-2020), 1 extended	Publication:	University of the Philippines Los Baños	I GIIe	01-Aug-24	31-Jul-27	ONGOING	5,000,000	1,986,334.20
	Technology. For a Smart Green Gold Economic and Environmental Resiliency	contonic growdi	project in Surigao del Norte (2019-2023) and 3 newly-funded project in Cebu, Marinduque and Zambales. To date, around 12 ha mined-out areas in Mogpog, Marinduque and Surigao del Norte was		(0, 20)	Academe					
	Lawronnenal Resilency		transformed into a young productive mini-forest using the UPLB commercial biofertilizers. In June 2023, some forest seedlings and bamboo species propagated in the nursery owned by Marinduque State College (MSC) were inpoundated with micropial fettilizers located in Brun Conserved. Marine Micro-	6 Ps		Foresters					
			through this GMAP program. The seedlings and bamboos were produced particularly for bjoremediation of the 1.0 ha mine tailing dumpsites at the back of Brgy. Ino Elementary School in Mospoo. Marindudue.	Year 1		Students and teachers at study site					
			With the limited budget allocated for bamboo propagation in this NRCP-funded project and with a very large tract of CDAs in Marinduque that needs immediate attention for rehabilitation, we can expand our	Year 2		PeopleĂ¢,¬_¢s Organization					
			renabilisation errort once this proposal gets funded so that much greater community could benefit. Consistent with the vision of former Hon. Governor Lord Allan Jay Q. Velasso, we also envisioned to make Manipularia an island of hamboo and a center of hamboo industry in the Minipularia.	Year 3							
			fast growth there is a quicker and greater return on investment (ROI) hence the CDAMicroTech project will open up greater livelihood opportunity for the community. In August 1996, a significant leak in the	Teas 5							
			Marcopper mine pit was discovered to have been the culprit in the flashfloods that drown low lying communities in Sta. Cruz and Mogpog, Marinduque. This left a remarkable and horrible nightmare	Total							
			among these communities and devastated large tract of lands and farmlands that were still contaminated with heavy metals up to present. This continuously posed risks to both human, witclife and vegetation. All the area parts from the nine to the store down in the bad have a schemes to PartsParts and were the store to the store to the store to the store of the store to the store to the store of the store of the store to the store of the store								
			left as CDAs are the target of this proposal which will use bamboo as the phytoremediation species.	Publications							
				Ă							
				FOR the state of the							
				Apt Produced 1 AVP Åpt Produced 1 IEC materials Å							
				Produced 1 journal article/chapter-in-a- book published in a reputable international publisher							
	S&T Community-Based Farm (STBCF) for	Rapid, inclusive and sustained	NULL		Davao del Sur State College (DDSSC)	Men	01-Oct-24	30-Sep-26	ONGOING	5,000,000	3,854,779.00
	Sustainable Production and Market Linkage of Smallholder Seaweed Growers Group	economic growth		EXPECTED OUTPUTS (6Ps)		and women seaweed farmers of Digos City					
				YEAR 1							
				YEAR 2							
				TOTAL							
				Products							
				Covered 8 hectares adopting CeePatundan€ method							
				Produced 60MT dried seaweeds for international and/or							
				local market - Produced and marketed 7.3K liter: required							
				droppings as foliar fertilizer through DSSC							
				Established 1 drying area as community-shared facility with 5 dryers with dripping collector and 2 final dryers							
				Consolidated dried seaweeds and drippings as swnchmoized production							
	S&T Community-Based Farm (STCBF) on	Rapid, inclusive and sustained	The project will utilize vegetable farming and beekeeping technologies to provide additional sources of income to the community, contribute to ecosystem services. hindiversity conservation and ecosystem services		Cavite State University (CvSU)	15 farmers from Indang, Alfonso, and Silang, Cavite	01-Oct-24	30-Sep-26	ONGOING	4,440,820	2,705,660.00
	Stingless Beekeeping (VegeBee)	economic growth	responsibility in the community. These vegetables will benefit from the pollination services provided by the stingless bees, which will be included in the project, alongside with other farming practices needed	EXPECTED OUTPUTS (6Ps)							
			tor each tarm and implementation site. Five beneficiary-farmers per implementation site in the three municipalities of Cavite will be chosen as recipient. Collaboration will be established with the Municipal Animulture Officers of Indexes Share and Manage of Manage for the State								
			Agnouture unices or incarg. Silang, and Altonso for the implementation of the project. The beneficiaries will be given vegetable seedlings or seeds, and other farming materials; stingless beet colonies and other beekeeping equipment. Training on beekeeping, verstable farming and northanset technologie will	T1							
			be conducted to capacitate the beneficiaries. Stingless beekeeping will produce several bee products that can be an additional source of income to the beneficiary, like honey, pollen, propolis, and even the	Y2							
			stingless bee colony.	Total							
				Products							
				Reducer.							
				Harvested 5.775 kos of assorted vegetables (10% vield increase from %50kos to 385 kor							
				per 200 m2)							
				Harvested a total of 75 kgs honey, 7.5 kg pollen, 7.5 kg propolis, and 15 additional tinclers has colories from solition							
				installed							
				75 stingless bee colonies, 75 hive boxes, 15 hive tools, 15 bee veils							
				 Harvested							

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
	S&T Community-Based Farm (STCBE) on	Rapid inclusive and sustained	The project titled is a collaboration between Cavite State University (CvSU) and the Municipal	YEAR 1	Cavite State University (CvSU)	30 Cacao growers and farm owners, entrepreneurs	01-Jun-24	31-May-26	2024' ONGOING	4 901 360	3 066 960 00
	Sustainable Cacao Production through Improved Management Practices in Alfonso, Cavita	economic growth	Agriculturist Office (MAO), Alfonso, Cavite, supported by DOST-PCAARRD. It aims to enhance cacao farming in Cavite by transferring S&T-based technologies, capacitating farmers through seminars			in Alfonso, Cavite (farmer beneficiaries) Other				,,	
	anagement i tablees in violise, ea ne		and training, and promoting wider adoption of improved practices. Conducting Farmer€™s Field School (FFS) sessions will address gaps in farming and entrepreneurial skills, market orientation, and	A. Products		cacao farming.					
			technology adoption among cacao tarmers. The initiative, with support from UVSU, MWU, and the Office of Provincial Agriculturist (OPA) Cavite, will equip farmers with skills to boost yield, ensure surstrainability, and improve likelihoods. Technical support seminars, and parcersary materials will be	Produced at least 1 000 ker of freth and dru cacao.							
			provided, ultimately leading to enhanced cacao productivity, quality, and profitability in Cavite.	beans							
				B. People and Services							
				Trained at least 30 cacao farmers							
				Conducted there (9) training							
				Adopted five (5) POTs							
				Engaged on social media at an average of 20/month							
				(i.e. likes, shares, comments, inquiries)							
				Converted file (5) inter							
				Conducted five (5) seminars/webinars							
	S&T Community-based Farm for Sustainable	Rapid, inclusive and sustained	Lowland pinakbet vegetables including okra, eggplant, tomato, ampalaya, sitao, squash, and pepper are	Publication: 3 Publication ArticlesPatent: 1 Copyrighted Video DocumentationProduct:	Cagavan State University (CagSU)		01-Jan-23	31-Dec-24	ONGOING	5.000.000	1.158.460.00
	Lowland Vegetable Production in Cagayan Province	economic growth	usually grown in region 2, particularly in Cagayan province, due to climatic and environmental suitability as well as the availability of other resource factors required for their favorable growth and development.	15,365.84 kg harvested and marketed lowland pinakbet vegetables per farmerÄ¢,¬,¢s		Vegetable growers in the target municipalities				.,	
			Hence, the high demand for the said group of vegetables. Good Agricultural Practices (GAP) and S&T- based technologies generated by DOST-PCAARRD and Cagayan State University will be utilized in the implementations of the semiclast the instruction beam (2) semiclast provide a semiclast provide the instruction	production area A (3,200 sqm) within the project duration. The breakdown of harvest/commodity/cropping for every 400 sqm production area is as		oondanta o					
			implementation of the project. It intends to involve three (3) vegetable-growing municipalities in the province, wherein five (5) barangays in each municipality will be selected for the establishment of S&T	tollows: Ampaya Ä¢,∹€ce 483.8 kg:							
			community-based tarms.	Bush Shab Ap; teon 418 kg; Pole Sitao Ap; teon 492.8 kg; Olara Apt anter 380.78 km;							
				Eggplant Å¢,~€en 335.56 kg; Tomato Å⊄,∽€en 431.6 ka:							
				Pepper Äg.⊸Ecs 499.52 kg; Squash Äg.⊸Ecs 563.32 kg.							
				Incle that all harvested vegetables will be sold/marketed							
				3 developed IEC materials on POTs generatedĂ, 24 hectares of land area planted with lowland pinakbet vegetables (75 farmers with 3,200							
				som per rarmer production area) People: 150 Profiled men and women vecetable crower:							
				10 Capacity building on social preparation, simple bookkeeping and accounting and GAP on wegetable production conducted with at least 150 participants.							
				150 copies of IEC materials on POTs generated by CSU and DOST-PCAARRD reproduced and distributed							
				75 Å assisted Å men and women vegetable grower cooperators 3 organized and assisted Å men and women vegetable growers association							
				Place: 75 Forged Memorandum of Understanding with men and women vegetable grower							
				3 Forged Memorandum of Agreement with partner LGUs							
				Policy: 1 policy (Municipal ordinance on Vegetable Production following GAP)							
				Diff	Mar and the state of the		40.1.00	45 1 00	01/00/01	11570.001	1 777 000 00
	(STC4iD) on Livelihood Improvement of Mangyan	economic growth	contributing to the broadening of the inclusivity spectrum of the program. Particularly, this is in addition to the two different sectors assisted by the program which include conflict and conflict vulnerable areas.	5 Traditional Cooking Recipe 3 Rasis: Numeracy, Reading and Writing	windoro State Oniversity (winSO)	Mindoro	10-Jan-23	15-Jan-26	ONGOING	14,570,964	4,777,320.00
	Communities in Mindoro through Science and Technology (S&T) Interventions		and geographically isolated and disadvantaged areas. This project focusing on IPs aims to apply extension modalities in their communities to establish sustainable AANR livelihoods. What sets this	5 Traditional/Indigenous Medication Patent: Copyright of IEC MaterialsProduct:							
			initiative apart from the STC4iD and LIFE-PULL is the inclusion of literacy component involving provision of basic literacy and numeracy activities to children and adults but also provision of scholarships to	1-hectare sustainable farm with two or more specific commodities							
			deserving students. This aims to provide lasting and stronger impact to the communities. Specifically, it aims to improve food access and availability, increase household incomes, and to empower the IPs	Fresh produce of root crops, vegetables, calamansi, corn and condiments Processed products of calamansi, rootcrops, soursop and vegetables							
			through education. These interventions also aim to prepare the IP communities to other possible assistance they can avail from other organizations.	Handicrafts							
				People: 200 Manayans trained for the following:							
				Package of Technology (POT) for root crops production							
				POT for Banana, Coconut and Corn POT for Calamansi, Soursop, Vegetable Crops							
				Food Processing and Value Adding Handicrafts Making							
				Agricultural Marketing and Strategies							
				100 Manazane ware twenti the basic literary and leadership skills							
				Produced at least 5 Manavan Leaders which would lead their community in progress							
				10 Mangyans completed the Certificate in Entrepreneurship from the UniversityPlace:							
				MOA between collaborating agencies							
				Provincial Agriculture, LGU, Department of Agriculture, DOST, PCAARRD, NCIP, PMUI and DTIPolicy:							
				to LGUs involved in the project					01/00/11/0	4 000 000	570.005.00
	Establishment and Management of Giant Bamboo	climate change adaptation and	compose ourse of the tastest-growing and ingness yielding renewables and at the same time is a highly versatile natural resource. In the Philippines, bamboos are intertwined with our environment, economy, and culture. They are used in construction, furniture and bandicraft manufacture. The Divisioner	Environmentation of the state of the stat	Development Bureau (DENR-ERDB)	bamboo growers in Daiwangan, Malaybalay City, Bukidnon	01-Aug-21	31-Dec-24	UNGUING	4,999,998	572,905.00
	(Dendrocalamus asper, Schult Backer) in Dalwangan, Malaybalay City, Bukidnon	mitigation	ranks 6th in the world as the largest exporter of bamboo products and because of its many uses, bamboos have been popularly used by many communities. Investors are coming to the nountry with a	established 3-ha S&TCB bamboo demo plantation established 15 1-ha S&T community- based bamboo expansion plantation establishvalue added products for bamboo ethorktifood							
			very promising livelhood opportunity for the people. Although bamboo is abundant in the country, the existing resource cannot cope up with the demands of these investors both in the quality and quantity of	processed bamboo shoots) 1 farmer group with at least 15 cooperators organized2 capacity building and capacitated							
			the resources. The Philippine Bamboo Foundation reported that up to 52,000 hectares of land in the country are planted with bamboo but this could not meet the increasing market demand. As of 2010, the	45 bamboo farmers conducted 1 Farmer's Forum on Bamboo-Industry Development to be attended by 70 participants conducted Publications1 technology guide on Bamboo Planting,							
			market needs 575,000 handicraft poles and 3.5 million furniture poles.	Harvesting, and Processing and produced 100 copies for distribution packaged produced 1 documentary video material highlighting the STCBF modalityPlaces and Partnerships1 MOA							
			Gant bamboo (Dendrocalamus asper) is among the ten commercially-important bamboo species identified by the Philippine Bamboo Industry. It is a very large, dense-clumping, evergreen species paties to Southeast that is a termine to 20 a tell and 12 are informatics. Variance alreads are an even with the southeast tell and the southeast tell and the southeast tell and the southeast tell and tell are tell and tell and tell are informatic tell and tell are tell and tell are tell and tell are tell and tell and tell are tell are tell are tell and tell are tell are tell are tell and tell are tell	with project partners torged Policies' policy recommendation to the Lou to intensity the support to bamboo related activities drafted PatentCopyright of the technology guide find registrand							
			native to Southeast Asia. It grows up to 20 m tail and 12 cm in diameter. Younger plants are covered with fine velvety brown hairs. It is widely cultivated for its highly valued culms that are used as a building material and its shorts that are used as a weetable. Unpart interpode of the culm are used as	mearregistered							
			containers for water or to collect juice being tapped from pain inflorescence. In Bukidnon, these are used as tomato stakes, poultry floors, and in making engineered bamboo products.								
			Moreover, PCAARRD has identified improved nursery, plantation, and post-harvest management								
			practices for bamboo as one of the important technologies in their Industry Strategic Science and Technology Plans (ISPs). Also, the Farm and Industry Encounter through the Science and Technology Anamole (FETA) and the Industry Industry Encounter through the Science and Technology								
			regenue (receive) conducted last 2018 nignigned bamboo production as one of the technologies for extension/adoption. This has increased the interest of the farmers because of the promising benefits they will agin from this commodity. Thus, there is a need to facus on S.& Tachhiler to support the								
			development of the Philippine Bamboo Industry through a community-based approach. The S & T Community-based Nursery and Plantations as a techno-transfer modality will assist the bamboo nursery								
			growers and plantation farmers in building a strong and unified alliance towards supporting the bambyo industry. With the availability of information, technologies, and existing healthy bamboo stands improved								
			productivity and profitability ensuring a stable supply of raw materials for the bamboo-based industry can be realized through the convergence of potential partner agencies and other entities.								
			CAEE: Chaman T Internationa In Interna Oxide Day	Dublication: 98 Miles decomposition of econts					01/00/01/2		0.070
	SAFE: S&T Interventions to Improve Quick Response to Calamities and Natural Disasters in	Rapid, inclusive and sustained economic growth	over c. searup, i interventions to improve quick response to Calamities and Natural Disasters project will cover the production of fresh vegetables for quick and free distribution as relief goods to calamity- stricken regions in Luzon. Since the production of freeh venetables is all war round the uninership and	Furtheautric 22, Video documentation or events and distributions in calamity-stricken areas; 5 Documentation reports and lessons learned; 3 IEC materials developed and distributed Patent N/AProduct: 5 POTs demonstrated; Å	Bureau of Plant Industry - Los Baños National Crop Research Development	Disaster prone/stricken communities	01-Jan-23	31-Dec-24	UNGOING	5,000,000	2,073,421.19
	CALABARZON, MIMAROPA and Bicol Region		underprivileged communities in Laguna during normal situations will be the beneficiaries. Moreover, continuous vegetable seed production and other plant materials support sustainable backward cardening	>19,200kgÅ, assorted vegetables produced for distribution to identified beneficiariesÅ, People: at least 20Å, barangays assisted;	and Production Support Center (BPI- LBNCRDPSC)	Households/ families Students					
			in households in different regions.	at least 10 families assisted \tilde{A} Place: $3\tilde{A}$ Institutional collaborations established and strengthenedPolicy: N/A		Farmers Senior citizens					
						Children/minors					
				I							

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
	SciCAT Expansion: Enhancing the KAMALIG	Rapid, inclusive and sustained	This project aims to	Publication: 1 published paper; 3 brochures; 1 AVP; 1 agricultural operations manualPatent:	Central Luzon State University (CLSU)	KAMALIG Model Farm intends to cater trainees,	16-May-24	15-May-25	2024' ONGOING	5,000,000	5,000,000.00
	(Keeping A Modern Agricultural Landscape through Integrating CI SU-Generated Technologies)	economic growth	expand DOST-PCAARRD€™s Science for the Convergence of Agriculture and Tourism (SciCAT) Program to other	1 logo trademark €œ KAMALIG"; 3 brochures and 1 AVP copyrighted; 1 agricultural operations manual copyrightedProduct: 1 website; 1 mobile application; 1 Fb page; 1		adopters and tourist learners which include 120 farmers 24 MAO personnel 7 apricultural					
	Agritourism Site		institutions like state universities and colleges (SUCs) showcasing PCAARRD and agency generated technologies.	communication plan; 39 technologies showcased, 1 guest journey mapPeople and Services: 20 tourists/day or4,800 tourists/year (6.6% of the expected daily tourists based on real		cooperatives, 7 farm tourism operators, 7					
			Inits will institutionalize the newly developed KAWALIG Model Farm to meet the agritishery needs of the industry	carrying capacity), which include, 120 farmers, 24 M/00 personnel, 7 entrepreheurs, 7 agricultural cooperatives, 7 farm tourism operators, 50 teachers, 4,580 students, and 5		guests, 50 teachers, and 5 researchers. Farmers					
			Philippines and around the globe on a large scale. As an agritourism site, it	regarding the adoption of economically and environmentally viable technologies		from Central Luzon will undergo training and adopt the technologies appropriate to them. Municipal/City					
			caries the lagine cuertar ha, mag-sayericay's a Aginturi Ourare is it provides a sustainable and integrated system for CLSUE™s agritourism. The modesty of the Tanalon term Forkamalin€ denicts the simplicity of the project™s objective €" to			Agricultural Office personnel of Nueva Ecija will undergo training of the different CLSU-developed					
			house and showcase CLSU mature technologies that are ready for adoption and become instrumental in the attainment of sustainable development goals.			technologies so that they can also extend the					
						other provinces, having capital investment, will be					
						interested to enter the value-chain of the commodities by adopting the developed products.					
						Agricultural cooperatives have the financial capability to invest in adopting the technology of					
						processing the products or enhance their products.					
						science-based technologies in farming, thus,					
						Students, from all levels, will be inspired to engage					
						technologies, the science of agriculture and animal					
						science. Teachers, as tourist learners, will also facilitate learning by reinforcing the value of					
						agriculture. Researchers may be able to identify					
						production.					
	Science and Technology Action Frontline for Emergencies and Hazards (SAFE) - LIGTAS: S&T	Poverty reduction and empowerment of the poor and	The project intends to provide its share to the government initiatives and other organizations to develop an immediate S&T intervention that improve calamities and other natural disasters quick response.	Publication: One (1) video documentation for the project	Cagayan State University (CagSU)	Chicken growers in the target municipalities	01-Jan-23	31-Dec-24	ONGOING	5,000,000	2,162,860.00
	Interventions to Improve Quick Response to Colomitics and Natural Disasters in Regions 1.2, and	vulnerable	Likewise, this project will establish and intensify the implementation of the poultry (native chicken and duck), rice, tilapia grow-out, and mungbean production. Some of the project components are part of the	One (1) documentation report and lessons learned Three (3) publication article		Duck growers					
	CAR		recently completed joint project of DOST-PCAARRD started by Cagayan State University which were a component of the previous DOST-PCAARRD funded project. Such is a potential to produce agricultural	Patent: 1 copyright registration of one (1) video documentation		Rice, corn, sweet potato, mungbean, and peanut					
			products that will support disaster-prone communities in reducing vulnerability to the impacts or natural hazards and climate-related disaster. This project will be implemented through the 2 agricultural	Product: At least 2,000 packs of Agricultural products prepared and distributed to calamity-stricken		growers Consumers/Buyers					
			camposes of the university.	At least 8 POTs generated At least 400 chicken pullet raised		Calamity/Disaster victims Processors					
				At least 31,075 chicken eggs produced At least 1,000-dav-old chicks raised							
				At least 500 hardened chicks raised At least 525 chickens raised for slaughter							
				At least 380 culled chickens At least 440 duck pullets raised							
				At least 400 culled ducks At least 60,433 duck eggs produced							
				At least 15,000 ballet At least 15,000 salted eggs							
				3 hectares of peanut production to generate yield of 9,000 kilograms in a year 3 hectares of muncheso production to generate yield of 4,000 kilograms in a year							
				1.5 hectares of corn production to generate yield of 90,000 ear of corn in a year 3 hectares of rice production to generate yield of 30,000 kilograms of paddy rice in a year							
				0.75 hectares of sweet potato production to generate 7,500 kilograms in a year 20.400 kilograms of milled rice produced in a year							
				People: At least 2,000 families assisted through distributed relief packages							
				Place: At least 2 institutional collaborations established/strengthened with MOA							
				Policy: 1 policy (GAP on crop, poultry, and aquaculture production)							
	Science and Technology Community Based Farm	Integrity of the environment and	The project focused on the production of sweetpotato for processing into sweetpotato flour.	Publication: Year 1:	Samar State University (SSU)	Sweet Potato Farmers and Women, ",s Associations	01-Oct-22	31-Dec-24	ONGOING	5,000,000	611,816.06
	(STCBF) on The Production of Sweetpotato Flour as Substitute for Wheat Flour	mitigation		One (1) Flyer One (1) research publication		In Basey, Samar					
				Year 2:,							
				One (1) Video of success stories							
				Patent: Year 1:							
				Filed Utility Models for 2 Products							
				Year 2:							
				Filed Utility Models for 3 Products Product: Year 1:,							
				99,000 planting materials produced							
				24,000kg of SP tubers harvested for processing (2 ha with 2 croppings) 3 600 kc of SP flour produced (30%)							
				Two (2) processed bread and pastries products with 10-15% SP flour content as substitute to wheat flour							
				Year 2.							
				200,000 planting materials produced 8 tons of SP barnested/bectare							
				32,000 kg of SP tubers harvested for processing (2 ha with 2 croppings) 9,600 kg of SP flour produced (30%)							
				Three (3) processed bread and pastries products with 10-15% SP flour content as substitute to wheat flour prepared by the selected bakeries							
				People: Year 1:							
	Sustainable Mangroves through Innovations and Livelihood Enhancement Promoting Growth and	Integrity of the environment and climate change adaptation and	This project will look into the socio-ecological, socio-economic and socio-institutional systems of the mangrove communities and understand how these land to sustainable and disenter services	Products — Characterized 2 mangrove social-ecological system — Produced 2 mangrove social-ecological system	University of the Philippines Los Baños (UPLB)	The tollowing are the target beneficiaries of the project:	16-Oct-23	15-Oct-25	UNGOING	5,000,000	1,498,052.00
	Climate Resilience (SMILE-Growth)	mitigation	mangrove management. Potential S&T-based livelihood and social enterprise innovations that will further promote socio-ecological and	Characterized 2 livelihood systems/activities Produced		CBFM members					
			economic well-being will be explored. Strategies for their technology transfer and effective adoption will	1 training module		Other mangrove communities Government agencies such as the DENR DA					
			likewise be pursued and applied.	Places and Partnerships		BFAR, etc					
				Established 2 partnerships and linkages (i.e. LGUs, SUCs, NGAs)		LGUs					
				Conducted 2 benchmarking activities in successful mangrove CBFMs		Private organizations Policy makers					
				Conducted 1 cross-visit		, only makelo					
				People and Services Udentified 30 farmer cooperators Control of a service for a service of the s							
				Conducted 1 workshop/locus group discussion with PO, LGU and other relevant stakeholders per site Trained 10 famer concentrators							
				Conducted 2 trainings on S&T-based livelihood development							
				 Supported 2 student researches (1 PhD and 1 undergrad) 							
				Publications Produced 1 journal article/ chapter-in-a-book published in a reputable international							
				Produced 2 IEC materials — Produced 1 AVP							
				- Produced 1 training module							
				Patents Filed 3 copyrights (2 for IEC materials and 1 for training module)							
				- · · · · · · · · · · · · · · · · · · ·							

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31	Total Project Cost	2024 PCAARRD GIA
	ToobKNOW: Strongthoning Tooboology Transfer for	Papid, inclusion and sustained	The innovation ecosystem in the country has made significant progress over the years. However, it is	A	Liniumsity of the Philippines Les Pañes	The target beneficiaries are the following:	16 Jap 24	15 Jan 26	2024'	4 917 126	2 791 069 00
	Stronger University-Industry Collaboration for	economic growth	important to note that there are still gaps in the ecosystem that must be addressed such as limited access to capital or funding, limited market access and scaling opportunities, and limited support	Products	(UPLB)	University Researchers, Stydents and Staff	10 0011 24	10-0411-20	0.100.10	4,017,100	2,701,000.00
	Sustamable Development		services. In addition, universities are still navigating through technology transfer. As a point of fact, even though UPLB has licensed several technologies in the past, every new licensing negotiation brings about			Industry Partners and Collaborators					
			new concerns and issues that should be addressed, demonstrating the fact that technology transfer is not a linear process, but one that requires adaptability and continuous collaboration among the different	24		MSMEs within the community					
			statenoices. In its project aims to address the gaps and challenges mentioned adove, it also aims to contribute to the vision of UPLB to be the country€™s agora or marketplace that will provide support, which are not address and the provide the MCMEs and investors for the interpreter formation. It also	Product pitches conducted							
			aims to be a collaborative and interactive program among the UPLB Business Affairs Office (BAO), Technology Transfer and Business Development Office (TTRDQ) Office of the Vice-(Chancellor for	1 Website maintained							
			Research and Extension (OVCRE), and Office of Public Relations (OPR) that supports entrepreneurship and skill development and promotes awareness and industry or community adoption of UPLB developed	· ·							
			products, services, and experiences. This is a marketing and learning platform for our researchers and academics to meet partner MSMEs, industry players, and investors. This project is also in line with the	1 Database of MSMEs maintained							
			vision of PCAARRD to promote excellence in agriculture, aquatic, and natural resources innovation.								
				24 Workshops conducted							
				Pilot-scale designs prepared							
				5							
				Packaging designs prepared							
				6 Commercialization Plane prepared							
	Loscaling Adoption of S&S Plaza Innovations	Rapid inclusive and sustained	The S&S Plaza is	5	Bureau of Plant Industry - Los Baños		01-Aug-24	31-Jul-26	ONGOING	5 000 000	2 569 392 00
	Towards SciCAT Farm Replication	economic growth	a 9 hectare (ha) organic science-based farm tourism site located inside the BPI-LBNCRDPSC€™s compound,		National Crop Research Development	LGU partners	017/ldg 24	01-04-20	0.100.10	0,000,000	2,000,002.00
			near the DOST-PCAARRD Technology Innovation Center (DPITC) building. Its history started	6Ps Metrics	LBNCRDPSC)	Tourists i.e. Farmers, Entrepreneurs, Students,					
			in 2013 when BPI-LBNCRDPSC partnered with the DOST-PCAARRD on the project Technology Demonstration and Capacity	Y1		Protessionals, Extension workers, Senior citizens, PWDs, Public organizations, Private Organizations,					
			Building for Lowland Vegetable Production. After which, several projects have been implemented in the area under the SciCAT program of TTPD-PCAARRD. The plaza serves as a learning who which is the second			Hobbyist					
			a teaming not within showcases facilities to encourage farmer-enterpreneurs and young generations to adopt POTs that can contribute to achieving	12							
			food security and sufficiency in the country. Moreover, it showcased promising agri-tourism business opportunities through a continuous process of technical and skill learning.	TOTAL							
				Publications							
				lec materials (prochures, leaflets or posters & videos for social media) developed							
	Une selle - Manatakia Desdustian in Calescone	Desid inclusion and sustained	The availant will be implemented in Davis Catananana 1 about Cottan Mudarat which is because with ideal	VEAD 1	Culture Kurdmark Clarke Linit analiku (CKCLI)	20.1/sectable Former announces 20.Nor	04 hum 04	24 Mar 06	ONCOINC	E 000 000	2.044.550.00
	Lebak, Sultan Kudarat through S&T Community	economic growth	climate for vegetable growing in the municipality of Lebak, Sultan Kudarat. The project aims to upscale the productivity of vegetable farms through the STCBF technology transfer modality within the project	TEXX I	Sultan Kudarat State University (SKSU)	cooperator Farmers/Vegetable-based	01-Jun-24	31-IVIAy-20	ONGOING	5,000,000	2,044,330.00
	Based Farm (STCBF) Modality		duration of 2 years. Under this project, the re-introduction of key technologies in the vegetable production chain or the Good Agricultural Practices for Vegetable Farming such as input provision	A. Products		agencies					
			(seeds, fertilizers, pesticides, agri-plastics, and other facilities); field management (crop diversification, fertilizer application, irrigation, pest and disease management, harvesting, sorting, packaging, and								
			transport) shall be done. Other science-based technologies that will ensure increased productivity of vegetable farms and improved quality of harvest shall be worked on with farmers, specifically on	Increased volume of vegetable production to 15% from average production yield of 1,840.10 (2019-2021 STC4iD Project)							
			postnarvest and processing, trading, and marketing (sorting, grading, cleaning, processing, storage, and distribution). These technologies should fill up the critical S & T gaps in the production operations of venetable farmers in the municipality of I shak in the Sultan Kudarat Province With the expected	Produced and marketed two (2) of the five (5)							
			improvement in the productivity of vegetable farmers through upscaled intervention in the vegetable production project site, similar activities can be replicated in close barangays within the municipality or	processed products (squash bread sticks and taro chips from STC4iD project) with improved quality							
			nearby places in the Sultan Kudarat province. Through STCBF project, technological interventions previously introduced can be mastered and sustainably adopted by the farmers to upgrade their								
			traditional methods in vegetable farming. Capacity-building activities are popular means that can strengthen the knowledge, skills and attitudes of farmers. The agricultural agencies promote farming	B. People and Services							
			strategies that are environment-menory and any minimize the negative impacts to numans socially, economically, and environmentally. Moreover, the STCBF framework is a timely tool for planning extension excited extension learned environmentations through technology developmentations.	Terin ad Davide Sand and (1) fermas							
			training or workshop, and related activities. The farmers shall be assisted technically in the adoption and showcasing the good agricultural practices for wegetables on their farms. The provision of a multipurpose	association with 30 farmer-cooperators							
			hul/off-farm facility that will serve as a storage/pick-up/consolidation/food processing area/marketing/trading facility can also be helpful to maintain the quality of vegetable products	Conducted two (2) trainings							
			downloaded from the farms to the target markets and to trading ventures.								
				Conducted one (1) field day							
				Conducted one (1)							
				techno cross visit							
DOST-PCAARRD Startun Grant Fund	Li	Rapid, inclusive and sustained	7JF Steel Fabrication intends to license and adopt the AdriAdua related technologies developed by	Publication:At least 2 IECs and other promotional materials of the licensed technologies	7JF Steel Fabrication	Community Government Academe	01-Sen-24	31-Aun-25	ONGOING	1,997 000	1,997 000 00
(SGF) Program	censing of the CAPSU-Developed Agri-Aqua Related	economic growth	CAPSU. These technologies include the Coconut Dehusking Machine, the Roller-Type Litter and Presser Machine for Fruit Extraction, and the Twining Machine which were already filed for patent protection by	developed Patent:At least 2 copyrights of IECs developed Product At least 3 tech commercialized through licensing with FOR and TLA At least 3 Fairness						.,,	.,,
	Steel Fabrication		the university. The firm has envisioned themselves to be the partner of the university in driving innovation and commercialization of research outputs particularly the agri-aqua related technologies.	Opinion Report (FOR) for technology licensing secured At least 1 Roller Type Slitter and Presser for Juice Extraction fabricated and sold in a year At least 1 Twining Machine							
				fabricated and sold in a year At least 1 Coconut Dehusker fabricated and sold in a year. People and Services:Services :At least 3 employees to work for the project hired $\notin At$							
				reast sanosp; start regarding size tabrication trained Haces and Partnerships:Partnerships At least 1 Linkage with other government agencies such as DA DAP. NEA etc. At least 1 Collaboration with other notential priorde partner such as PU							
				Foundry & amp; Machine Shop Corp. At least 1 MOA/MOU with potential private partners or aovernment agencies forged&hbs://t least 1 participation during agricultural technology							
				exhibit in the region Policy:							
DOST-PCAARRD Startun Grant Fund	Ben	Rapid, inclusive and sustained	Bencals' cacao beans exhibit distinct flavor profiles shaped by various factors such as soil composition	Publication:At least 1 Operations Manual developed and printed : At least 1 huminess	Bencal's Food Product	Cacao growers in Pangantucan, Bukidnon	01-Sen-24	31-Aun-24	ONGOING	1,935 000	1.935 000 00
(SGF) Program	cals Food Products' Single-Origin Cacao Production	economic growth	climate, production methods, and processing techniques. The focus on single-origin chocolate enables consumers to experience these unique nuances, showcasing Pangantucan's influence on the beans.	plan revised and printed :At least 1 sustainability plan developed At least 1 promotional video developed At least 1 Online Advertisement boosted At least 2 IEC						.,	.,
			Bencals aims to narrate the story behind each bean, highlighting the growers, sustainable farming practices, and the inherent flavors in their cacao beans. The commitment to ethical sourcing, reflected in	material developed (brochure, flyers, signages) Patent: At least 1 trademark filed At least 1 copyright filed Product: Produced and sold 100 kg of dark							
			good agricultural practices and tair-trade principles, resonates with customers valuing transparency and responsible production.	Produced and sold 100 kg white chocolate in 1 year Business Registration renewed FDA- ITO Permit Renewed Rhsp: Applied for FDA-CPDRohem Decolate and							
				Services:Services /kl least 2 trainings attended by 3 Bencals Food Products Staff At least 1 benchmarking activity attended by Bencals Food Products Staff&nbso:							
				Places and Partnerships: At least 3 partnerships established with private sector and 1 government agency Policy:1 policy recommendation developed							
DOST-PCAARRD Startup Grant Fund	Enhancement of Prototype and Assessment of Product Marketshillity of Dicital Commodity Exchange	Rapid, inclusive and sustained	Farmvocacy€™s PALAYAN-Pawnshop helps support smallholder rice farmers who want to take advantage of seasonal variations in grain prices, lenders who want secure, liquid, and profitable	Publication:At least 1 Article/ Paper Presentation detailing project processes and results and submission of White Paper as requested by DOST-MIMAROPA Regional Technical	Farmvocacy Inc.	One farming community with a total of forty (40) rice	01-Sep-24	31-Aug-25	ONGOING	1,961,720	1,961,720.00
(==:) i iogram	(a collateralized commodity financing for smallholder		investment, and commodity buyers who demand quality produce at competitive prices. Compared to banks, traders, and informal lending institutions, Farmvocacy€™s PALAYAN-Pawnshop is the only	Evaluation Committee (RTEC) Patent:At least one (1) patent filed for any of the prototypes to be produced. Product:PALAYAN-Pawnshop - Digital Commodity Exchange Platform: One							
	gram tamera, for i armera. Retailers, and impact Lenders		inancial product that allows farmers to increase commodity prices while providing safe, secure, and liquid to lenders.	(1) MVP7 prototype for Farmers; One (1) MVP7 prototype for Lenders; One (1) MVP7 prototype for Buyers; Minimum of One Hundred Metric Tons of palay or rice to be deported in the DALAYAN Provention in one version for the transfer of the section.							
				Services: Training one (1) personnel to store, maintain, and monitor grain quality used as collateral for financing. Storage services and warehouse reports system installed for							
				participating farmers Place and Partnerships: Value chain actors 6° One (1) rice miller, two (2) Farm machinery owners, Onboard twenty (20) Rice retailers, and institutional buvers							
				One farming community with a total of forty (40) rice growers. Invited at least three (3) lenders to observe the pilot and get their feedback. Policies Policy:Operating policies for							
				warehouse receipts system							

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
DOST-PCAARRD Startup Grant Fund (SGF) Program	Enhancing the Operational Capacity, Product Quality, and Market Reach of 4G loc Cream House	Rapid, inclusive and sustained economic growth	The ground parket demand of Ad Ico Crean Hoads unque and delightil us crean Hoads demonstrates to potential for equations. The position regrosses the nuclearies undering the business value and is ability to caller to the environg tasks and performance of the local community. Adolfs community, capits business and performance of the local community. Adolfs for community, capits business and performance of the local community. Adolfs community, capits business developed a selection for environment and and the provide the province, expectably is being developed a selection for environment and an adolf performance and the province expectable is being developed a selection for environment and a selection of the selection of the selection of the selection of the province when is common to be areaming the community of the provide the condume with a unique provide when is common to be areaming the community of the condument of the provide when is common to be areaming the community of the provide the condument of the provide when is common to be areaming the provide the condument of the provide when is common to be areaming the provide the condument of the provide when is common to be areaming the provide when is common to be areaming the provide the common to be areaming the provide when is common to be areaming the provide the common to be areaming the provide the common to be areaming the provide the provide the common to be areaming the provide the to provide the provide the provide the provide the provide the provide the provide the provide the prov	Babitation Developed 1 EC nationals Peters A4 test 3 EC nationals field for computer Product A4 test 2 OR-894 technologies schede through locaring a Ho R2 and TJ. A4 test 20 hear of Sealord face to Crean produced and sold in a year. A least 20 hear of addronal produced in a year (scheder Bahran). Produce ad Article and addronal produced in a year (scheder Bahran). Produce ad Article A1 test 3 addronal employees herd A1 least 3 addronal employees tained Paces and behaviors and the addronal addronal addronal addronal addronal produced and behaviors with local analytic of test 3 addronal employees tained Paces and conductors with local analytic of test 3 addronal produced and test 3 addronal produced produces with local market for distribution A1 test 3 participations to local and regional Paking Gentra A1 and 1 zinning adminication pays restated to schemes. Paking:	4G Ice Cream House	Local Community Residents Employees and their families Capiz State University Customers beyond the local community Local Entrepreneurs in related industries	01-Sep-24	31-Aug-25	2024' 5 ONGOING	1,905,000	1,905,000.00
DOST-PCAARRO Startup Grant Fund (SGF) Program	Product, Process, and System Improvement of Ebang'Z Mushroom Farm	Rapid, inclusive and sustained economic growth	Exang2 Mukhroom Fam is a startip basiness that specializes in the production of feeth and processed Opate Mukhroom products. The business was founded by Mk. Nore add Torm in 2016. It leaves not much the starting bagan allen the attended a communicipated Muchroom training program conclude by the horizon and the starting and a starting equipped her with the knowledge and abls necessary to entrain to muchroom cultitation.	Publication Developed 2 EC internies for the farm and products. Patent Field 2 comprist materials Products Mark and 200 Multip logarity particulars of months. Ad 200 in a year. At least 200 fairing basis undergo referive and efficient bagging process per month, 34 (20) and 200 fairing basis undergo referive and efficient bagging process per month, 34 (20) and 200 fairing basis undergo referive and the set of the set of the set of the 200 paids of multipuot chickhow and 100 go of multipoon trepolary undergo physic per month, 3240 lg of chickhow materials and and and and and and 200 paids of multipoon chickhow and 300 do multipoon trepolar output diving per use of the 200 multipoon trepolar and 300 multipoon trepolary output diving per use at least 320 kB of chickhows and a Multipoon technological and many 6 capacity building training for the Ebarg/EV Multipoon staff on training stated to Multipoon Farming and provideor Places and Pharmeticipe Zimetrine Linkase will Multipoon Resolution the province multipoon and in the Region Public Develop at least 1 Ower Phartone Academia	Ebang'Z Mushroom Farm	Local Mushroom farmer in Capiz Local small business ently that will help in the earling of the product Employment of locals in the area	01-Sep-24	31-Aug-25	ONGOING	1,856,300	1,856,300.00
DOST-PCAARRO Startup Grant Fund (SGF) Program	Scaled Up Production of Charcoal Briquettes from Agro-Forest Wastes Using the DOST-FPRDI Hydraulic Charcoal Briquettor	Poverty reduction and empowerment of the poor and vulnerable	Super Uling Chanced Brisputter (Inega Cozoni F am), basked by the Chancel Brugetting Technolog of the Forset Product Research and Decognoment Inshitty (PRV), was founded in 21% be produce and the product outputter of the product of the product of the product of the product with better product qualities compared to indicate data and and the product able to comment limited match, has sens the startly and uses awarded with meti-free locks for 6 months in startly and sconomic thrusts and agenda &nbag was also and product able to comme thrusts and agenda &nbag while the product guides compared to indicate data and Program for MOMEs with strong scotch economic thrusts and agenda &nbag which are the product guide and agenda &nbag which are the product guide and agenda &nbag which are the product guide and agenda &nbag which are the product guides and product and the product able of the MOMEs with strong scotch economic thrusts and agenda &nbag which are the product guides and product and the product able of the MOMEs with strong scotch and the product guides and product and the product able of the product able of the MOMEs with strong scotch and the product guides and product able of the prod	Plantiation: One (1) Video Informatic (jushished in Fastoso) about the destruction brough about by the Kanging Johanni in Charcen Plantichian and the abstructions and the subscript of the Single	THEGA COCONUT FARM	 Local community of Bryx, Nagsaulay San Juan Batangas and nearby serail. 20pilers and Coconut workers 3. doprar workers4. Senior Citzens, Housewives, Single Parents and Out-School Youths (we currently commission ALL of our packing requirements OF-SITE is provide job opportunities in our own community) 	01-Sep-24	31-Aug-25	ONGOING	1,801,600	1,801,600.00
DOST-PCAARRD Startup Grant Fund (SGF) Program	Scale-up Production of Healthy Bite as Industry Standard Nutri Snack Venture	Rapid, inclusive and sustained economic growth	HEALTPHITE FOOD PROCESSING AND PRESERVING is a plant based anading starby company based in the liaid province of Guimara. It is this promotent withins foot anadasity the wegatale and fout basing trees as base ingredents. Healthy libte emissions to reolulidoxies the smark food industry by instructing and productions again-starb food carts as a preferent light male for standers of all agas. Healthy biles oftens a variety of preservative free stacks highly made of wegetables and edible plant materials.	Publication: Production and Operational Plant: 1000 Totochures: FB page for promotion and social media presence Patient 11 togo Trateman Poducit 10 FP for Sproudus 1 F10A Certificate 41.000 packs of mean drips produced and out 48,000 packs of melane fired produced and old 2 Public Praces and Patheeships 2 patheeships 2 patheeships and produced and and People Praces and Patheeships 2 patheeship patheeships and produced and and People Praces and Patheeships 2 patheeship patheeships and produced and and People Praces and Patheeships 2 patheeship patheeships approximation for and what Patheeships 2 patheeships 2 patheeships patheeships approximate Singed with ABBs and local famer cooperative Pathy: 1 Production and Operational Plan.	HEALTHYBITE FOOD PROCESSING AND PRESERVING	Agrarian Reform beneficiaries (as suppliers of raw materials)	01-Sep-24	31-Aug-25	5 ONGOING	1,992,500	1,992,500.00
DOST-PCAARRD Startup Grant Fund (SGF) Program	Upscaling and Upcycling Mildfah Processed Products	Rapid, inclusive and sustained economic growth	Mikitah production in Region 1 offers business apportunities using faith processing technologies as key prolong aktifikit, while its market, and automic foot attification, processing is ablanced and scale processing lacities in Paragraman is ELDICA Sealood Processing is business enterprise engaged a producing and processing the penany equivablish commody. Mikitah.	Publicator: tournes plan for processed milificiti productions of level 24 Ec for milificity productions of processing developed from; 1 substatiability for for the supply ander platforms developed 1 module for the 1, profile proceeding of milificit ander platforms developed 1 module for the 1, profile proceeding of milificity ander platforms developed 1 module for the 1, profile proceeding of milificity ander platforms developed 1 module for the 1, profile proceeding of milificity ander platforms developed 1 module for the 1, profile proceeding of milificity and 1, profile and 1, proceeding milificity products and 1 mode developed locary. A level of proceeding milificity products are and developed locary. A level of proceeding milificity products are developed locary. A level of proceeding milificity products are level programs conducted 1 food processing facility enabledee and ITAC certification developed detributors identifications of locard and eveloped 1 mode and a level detributors identifications and the result index platforms and militation and eveloped and and a for register angle and register angle of a minification and and even and and and and and and and and and and	ELDICA Seafood Processing	Skilled workers (women deboners) of the processing facility, farm workers, and support staff Suppliers of raw materials (fresh ingredients)	01-Sep-24	31-Aug-25	S ONGOING	1,821,000	1,821,000.00
Extending the reach and impact of the LIFE model in improving jivelihoods and building peace in conflict-vulnerable communities in Mindanao	Project 1. Contributing to Peacebuilding through the LIFE Model in MLP Communities of Zamboanga Sibugay, South Cotabato and Maguindanao del Norte	Integript of the environment and climate change adaptation and mitigation	Access eight years and die joist date, the LEE (Livelinous Improvement Hrough Facilitate Edenticity) Model has considered yearnotatist dat kallel (In orgoldy reprove Improvement Hrough Facilitate Edenticity) as well as building much stronger local institutional partemphility. Developed in 2013 by the ACMA Michanau-Lindonau LEF (PULL) regroups 1000 and 10000 and 1000 and 10000 and 1000 and 1000 and 10000 and 1000 and 1000 a	11 - housesthme (1) emo (ame satalitäne in 3 ater) - People and Series Three (1) formed grave aparatical lead on (1) on-with consist characteristic distributions Teo (2) panal affaita (nohing pages) ¹¹ - Resea and Partnenhigh Three (3) MOA distributions Teo (2) panal affaita (nohing pages) ¹¹ - Resea and Partnenhigh Three (3) MOA distributions the optimalization of the constraint of	University of the Philippines Mindanao (UPMin)	The The project's target beneficiaries are the farmers in MLF communities specifically the following/Maguindanace: Barangay Banaba in Datu Abdullah Sangki, Barangay Kamasi in Ampatuan:South Octabata: Barangay Utile Baguio and Barangay Utile Baguio and Barangay Utile Baguio and Barangay Barangay San Pedro and Barangay Bamto Niso in Tungawan.	01-Aug-23	31-Jul-26	ONGOING	15,631,206	3,149,588.00
Estinding the reach and impact of the UEE model in uproving livelihoods and building peace in conflict-vulnerable communities in Mindanao	Project 2. Expanding the LIFE model to UP Mindaneo's Land Reservation in Lask, Davao de Oro	Integripto of the environment and climite change adaptation and mitigation	Locase apply parts and 26 plot dates, the LEE (Livelhood Importment Hecup) Facilitated Edension). Models has constantiatly demonstrated facilitation papidy preprocess memory consolid livelhoods as well as building much stranger local institutional parteenthips. Developed h 2013 by the ACMR Memory Applications (Livel) and Livel and Liv	11 - ThotacutAl least one (1) denos fam estabilister3/1 - Paople and Seriescn0-ex (1) fames group organized one (1) crans-ski conclusion? I - Palotialanski (1) jamel article recting paper)/1 - Risca and Pharenthips One (1) Mulk drafter3/1 - Policasel II class one (1) participation of the participation of conclusion of participation participating in community activity11 - Economic ImpactBable and diverse leafloxdFood and powerly threading and participation of conclusion and you? (1) PatientsW11 - State and and exceeding 2/2 - Paductance V - Palot and ondocted V2 - Paductance One (1) (Durard article scheduled to an international directed and powerly threading and patienting one conclusion of participation conducted V2 - Paductance One (1) (Durard article scheduled to an international directed participation of the participation of conclusion of participation conducted V2 - Paductance One (1) (Durard article scheduled to an international directed participation of the participation of conclusion of participation conducted V2 - Paductance One (1) (Durard article scheduled to an international directed participation of concentration (1) (Durard article scheduled to an international directed participation) and concentration of the participation of community activity21 - Paductance (1) data ready for scheduled to 1) - Paductance (1) (Durard article scheduled to an exceeder(2) - Paductances to an internation directed participation (1) community activity21 - Excess and Patrenthys Two (2) Alble directed (2) - Paductance/Internation/Internation and powerly threativid resched and exceeded (2) - and patrenthys Two (2) Alble directed (2) - Paductance (2) - Paductance/International directed (2) - and patrenthys Two (2) Alble directed (2) - Paductance (2) - Paductance/International directed (2) - and powerly threativid resched and exceeded (2) - and powerly threativid resched and exceeded (2) - Paductance (2)	University of the Philippines Mindanao (UPMin)	The target beneficiaries of the project are the Taile Famer's Association or a newly formed famer's group located in Lask, Daviso de Oro.	01-Aug-23	31-Jul-26	ONGOING	8,075,810	1,409,266.00

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
Extending the reach and impact of the LEFE model in improving livelihoods and building peace in conflict-witherable communities in Mindanao	Project 3. Reintegration of IP Youth Farmer Execuses (BAWUTF): Consultant of the Secusion of the UFE model in Talaingod, Davao del Norte through the LIFE Model	Integrity of the environment and climate change adaptation and mitigation	Arces epity years and 26 jots dates, the LFE (Livelinoto Iligoovenet through Facilitate Edension) Model has considered yearsstated a basily to rapidy improve time concorris and social livelihoods as well as building much stronger local institutional patienthys. Developed in 2015 by the ACMB Model has considered and the social livelihood and the social livelihood and as the social social social livelihood and the social livelihood and the social livelihood and as well as building much stronger local institutional patient livelihood and the social livelihood as well as building much stronger livelihood and the social livelihood and the social livelihood and specifically developed for conflict-vulnerable areas of Microana Clemen is success, there is now an opportunity is validable in signal run branching in paticular conflict specifically developed for conflict-vulnerable areas of Microana Clemen is success, there is now an opportunity is validable in the much patiely and used by a paticular conflict formerly lipskily include by the CPR-PAR. The CPR-PARA established the Stangurgan P schools in a genetical base in the much patiely and use as schools for the run et an explicit and in modulicary temptom concepts and dees, indicatination, orientation, and indicatation of the P yeah and divides.	11 - Rostantenev? - Repise and Services One (1) Repise's Organization (PO) organi	University of Southeastern Philippines (USeP)	The project's target beneficiaries are the IP youth farmers of the three barangys of Talaingod. namely, Sto. Nizo, Dagohoy, and Pluma Gill. The initial number of beneficiaries are 30 with an additional 82.IP youth farmers once the capacity of the TATAG IP Program has increased.	01-Aug-23	31-Jul-24	GNGONKG	9,000,000	1,854,112.00
Regional Agri-Aqua Innovation System Enhancement (RASE) Program in Cagsyan Valley	Project I. Regional Intellectual Property and Technology Business Management (PTBM) in Cagayen Valley through the RAISE Program	Integrity of the environment and climate change adaptation and mitigation	labels State Livership (ISD) is one of the leading state universities of the Philippines. Rooms as the violensity for pack, that, entitypersonantips and innovation. State of the same of AWR disciplines. The tuse of neorable technologies or intellectual properties is one of the single of AWR disciplines. The sure of neorable technologies or intellectual properties is one of the installers of the university to combine in the maynovement of forming advilled of the province in particular. Since 2017, and the same of the single of the university of the same of the philic soft of the antilation and instants. The same of the university for same and and profitable assoft to businesses. The propert of commercializing PA is togeth as the goarsment is aligning significant programs and muscare built every Reampoint. The Reison 2 to asgort provinge and khare regressing and ensure that the RPRAND_bit and percent and an one inflates. PIPAM is impective to the maximum and instants. The Reison 2 to asgort provinge and khare regressing ensures that every Reison 2 to asgort provinge and khare regressing ensures that the RPRAND_bit and percent and more index and properly managet. This project would there usain the RPRIM is fixed in university. The origin and khare regressing ensures that the RPRAND_bit share goards and the impective theory in the property halding. On technology investing, it will models introduce the origin and khare regressing ensures that every Reison 4 to include technology and have the regrestry Managet. The impective the technologies and all shares the testicated Property Mino- Philippines. To improve the knowledge and all shares of the maxamement, they will all affect and adding built and adding adding the constraints of the property Mino- Philippines. To improve the knowledge and all shares of the researchers are shared and adding built and adding adding will be conducted to constraint will all shares adding adding adding adding adding adding adding the property the property Mino- matic	(dP-Bigoral PTME-statutional PTMM (EU PTMM Hass 3)Polatication Regional Training Reports 50 LICE-Statution 20 Performance 10 Main a Telenizi 20 Compt Application 10 Performance Provide Application 20 Performance 20 P	Isabela State University (ISU)	Component 1. Regional IPTMCVAARRD CMI Researcheral/motions (ISU, NSU, SU, SSC, OSU, BFAR-R02) echnology adapters in Region OCEntrepreneurs in Region OCCOMPONENT Instance IPTS in Region COCOMPONENT Instance IPTS in Region COCOMPONENT AdaptersEntrepreneurs	01-Oct-23	30-Sep-2	ONGOING	4,566,672	845,418.00
Regional Agri-Aqua Innovation System Enhancement (RAISE) Program in Cagayan Valley	Project IA. Enhancement of the Intelectual Property and Technology Business Management Office (IP- TBM) in Nueva Viscaya State University (NVSU) through the RAISE Program	Integrity of the environment and climate charge adaptation and mitigation	The establishment and development of the Naroa Viczoya State University Instellectual Property Enchnology University Amagement (VNAR) PUIM) (Otto was many provide by the samitan of the inchnology University PUIM) (Otto was many provide by the samitan of the many properties and assignment (VNAR)). The office advocates the protection of intellectual properties and assignment (VNAR) (Dotto PUIAVRD), the university has filed 64 inchnologies for a nice business. Since the assistance of the DOST-E-VAVRD), the university has filed 64 inchnologies for a nice business. Since the assistance of the DOST-E-VAVRD, the university has filed 64 inchnologies of a commension base, one is not projective of compressional can ad sight (19) are extended in the project. He NDECR 64 Control Negleck was also governed and inspense file of the approximation of various technologies on characteristication and sight (19) are advected in the same technologies on characteristication and sight (19) and (Narea Narea extension). The same technologies and insteller technologies and	Pabitation EC#-barren ti D Applications (UM A Peter only)S Copyret) (ECAProducts 1 DR Reports 1P & Antonicogian mentory and quadrati mentory of noneleding memory communication plan developed & memory and the second second second pertra functionage planet in the second for the national training is patientially agreement willbalance and Texture Committee List for the national training is patientially agreement willbalance if de Palary and Textundery Transfer Protocol (with internal memore, ACIs)	Nueva Vizzaya State University (NVSU) Technology and Business Incubator Office of NVSUlriccubates - Male and Female Technology Business Incubator personnel and managertVNSU maile and female Researchers' Inventors Technology adapters- Male and FemaleEntrepreneurs- Male and Female	01-Oct-23	30-Sep-2	5 ONGOING	2,431,200	568,450.00
Regional Agri-Aqua Innovation System Enhancement (RAISE) Program in Cagayan Valley	Project 19. Establishment of the Intellectual Property and Technology Business Management (IPTBM) in Batanes State College (BSC) through the RAISE Program	Integrity of the environment and climate change adaptation and mitigation	In the purel to increase the research activities, technology and incodelege generation, and to protect these outputs, the Balanes State College need to statish its histicular Preprint and Technology Business Management (IP-TBM) (Office Incough the Regional Aqua Age Innovation System Enhancement generates to me researchers and generates are according to the state of the technology and the researchers and generates are according to the state of the technology and the researchers and generates are according to the state of the technology generation according to the shata community. With the statistication, This institute will larber provide the researchers and persents are generates than the particular of the p-TBM (Dire of the according the technology generation will be enhanced. The statisticities of the college, but it will also engage measuries, innovators and future technology generation activities of the college to the will be community through antibusticity and future technology generation activities of the college to the will be community through antibusticity and future technology generation activities of the college to the will be accounted to the state activity and persent and future technology generation activities of the college to the will be accounted to the state activity and persent accounted the state accounted the state accounted the state activity and persent accounted the state accounted the s	Publication3 EC material-Paterial P Applications (LM A Pateri only)3 Copyright (EC/Phodoud SPA (Report III: As latencing is investry updated investry of the invasive presence is prepared and updated 185C communication plan developed a pre- commendiation metal technologies between the second second second second Second 285 calif stander is National PNAC SEC staff amout in National AMBC SEC staff stander is National (NACS SEC staff started in National AMBC SEC staff stander is National (NACS SEC staff started in National AMBC SEC staff stander is National (NASS SEC staff stander is National (NASS SEC staff started in National AMBC SEC staff stander is National (NASS SEC staff started in National AMBC SEC staff stander is National (NASS SEC staff started in National AMBC SEC staff started in National (NASS SEC staff started in National NASS Sec staff	Batanes State College (BSC)	BSC Researchers/ Inventors Technology adaptersEntrepreneurs	01-Oct-23	30-Sep-25	ONGOING	3,068,100	673,650.00
Regional Agri-Aqua Innovation System Enhancement (RAISE) Program in Cagayan Valley	Project IC. Eatabilishment of the Intellectual Property and Technology Bulness Management (IPTBM) in Cagayan State University (CSU) through the RAISE Program	Integrity of the environment and climate change adaptation and mitigation	Cappure State University (CSU) is one of the leading universities in Region 2. All present. CSU has seen (i) camputes that are interlegically additional dorss the priorities. The University differs constrained that a strategically additional dorss the priorities. The University differs and the objects in the interlegical constraints of the energy term and the strategical additional dors and the energy of the strategical additional additional matrix balances. These technologies cover production to product processing. Although these that be project and these products and the strategical additional additional that additional additional additional additional additional additional that additional additional additional additional additional through the project, dhe technologies and the efforting manage starting from P unit is delipoide and echnology management approaches which are all necessary to improve the process of research and development advisions and an a technology transfer.	Palaitaton EC materialPatents P Applications 3 Corpyright (EC)Products PAS Reports IP A Extension Extension P Applications 3 Corpyright (EC)Products PAS Reports IP A Extension P Applications P Applications P Applications P Applications plan developed & implementer I technology with pre-commensionation reports technologies pittore T technology Commensional PMAP (2014) and Tamoré n a national PMAP P Applications P Applications P Applications P Applications P Applications and Applications P Applications P Applications P Applications P Applications and PAR2 CSD Ladit territor in national ABMSC CSD Ladit Tamoré n a national PMAP a development P Applications P Applications P Applications P Applications P Applications and a structure of the Applications P Applications	Cagayan State University (CagSU)	CSU Researchers/ Inventors Technology adapters Entrepreneurs	01-Oct-23	30-Sep-2	5 ONGOING	2,500,000	540,932.50
Regional Agri-Aqua Innovation System Enhancement (RAISE) Program in Cagayan Valley	Project 10. Eatablishment of the Intellectual Property and Technology Bulness Management (IPTBM) in Quirino State University (QSU) through the RAISE Program	Integray of the environment and climate change adaptation and mitigation	The Curron State Livershy (CBA) aims to establish an Intelectual Property and Technology Business Management (PTBM). In the pursul to devoke and general baselogies and technologies for the method of the state of	Publications EC materialPatentis P Applications (LM Asam, Pateri only)3 Copyright (EC)Photocation SN Report In IP Asam, Chancings in methy publication Intenting of the Composition of the Report In IP Asam, Chancings in methy publication I and the implemented I Tach Communication jain devidered Asim; implemented I technology with recommendationation (CMS) COSI and Intention of the Constraints' (CMS) and Beneric and Services 2003 util frame In anional PMC2 OOB sufficient Con- dition and Intention (CMS) COSI and Intention Trans Protocol revised 2003 util framed in anional PMC2 OOB sufficient Con- traints' (CMS) and CMS) and anional anional PMC2 OOB sufficient Con- traints' (CMS) and CMS) and anional anional PMC2 OOB sufficient Con- traints' (CMS) and anional anional provide a sufficient CMS) and Reference 2014 and on choose and CMS) and anional provide the CMS and a sufficient Commitment Later for the national brainings's partnership agreement will built and public CMS and the CMS anional anional provide the CMS and anion public CMS and the CMS and the CMS anional anional provide the CMS and the CMS and anional anional provide the constraints' and the CMS and the CMS and anional anional anional partnership agreement will built and CMS and anional anional anional partnership agreement will built and CMS and anional anional anional partnership agreement of P public/Cashing enhancement of the framedic partnership agreement of P	(Quirino State University (QSU)	QSU Researchers/ Inventors Technology adaptorsEntrepreneurs	01-Oct-23	30-Sep-2	SONGOING	2,566,600	532,400.00

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31	Total Project Cost	2024 PCAARRD GIA
Regional Agri-Aqua Innovation System Enhancement (RAISE) Program in Capsyan Valley	Project TE: Establishment of the Intellectual Property and Technology Business Management (IPTBM) in Bureau of Faineries and Aquade Resources Region 2 (DA-BFAR R2) through the RAISE Program	Integrity of the environment and climate change adaptation and mitigation	The DA-Bureau of Faheries and Aqualic Resources Region 02 through its researchers has been developing various linking products particularly from underultide (this and other aqualic resources production profiles with the promoted by the approxy and commercial with the assistance of the Department of Somme and Technology and the DA-Bureau of Agricultura Research and adopted by the emotion of the set of the Department of Somme and Technology and the DA-Bureau of Agricultura Research and adopted by the emotions, which was inhibitly considered as appet to la behavior appointed to profile was the faher to for developing value added products to promote consumption and matheting. Maternike, some commercialized and adopted by wome associations in the region for the linking bureau and advantary the exploration of the program on Advancing Technology Transfer in Region 2 and adopted products and intellectual properties of the university by producing capability lauding to researchers and increasions. It is expected that this initiative will exhance the technology lauding programs of the university.	Publication3 EC material-Planeted P Applications (M. & Patent only)3 Capyright IECs/Planeted P/S Reports IP & technologies in metry updated I hereiting of implemented T-bot Communication plane developed & implemented T-bothogy with pro- commendations reported T-bothogies planet. Technology in the pro- mented statistics of technology in the state of the state of the state of the APAAdd and transmission in anotael TOLSE PAAdd 2 staff trade of technology with pro- ded and anotae I P Audit & Investory Winkings 2 MAdd 2 staff trade of technology with pro- sent Planeter and P Audit & Investory Winkings 2 MAdd 2 staff trade of technology with and Randeed regional P Audit & Investory Winkings 2 MAdd 2 staff trade of the state and Planeter/Inde Audit of encloses/manifolds in Appendix Planeter/Inde and Planeter Bit Applications 2 Madd 2 and the of the state index in Application and the state of the state and Planeter/Inde Audit on close summarisis of planeter/Inde Audit and Audit of the Mitching Audit Application 2 Madd 2 and the often service and and the state of t	Bureau of Fisheries and Aquatic Resources Region 2 (DA-BFAR R2)	BFAR-02 Researchers/ InventorsTechnology adaptersEntrepreneurs	01-Oct-23	30-Sep-25	2024 ONGOING	2,500,000	507,500.00
Regional Agri-Aqua Innovation System Enhancement (RAISE) Program in Cagayan Valley	Project 2. Establishment of Regional Agri-business Hub (ABH) in Cagayan Valley through the RAISE Program	Integrity of the environment and climate change adaptation and mitigation	Region 2 adio known as Capyaw Maley is the country' two top 1 producer of ours, 2nd top producer of pro- peroloce of operating 1-bits produced or impulsion, policits in the country of the producer of ours and the top producer of operating 2-bits produced or impulsion, policits the strength and the top producer of application. The the rotation of Namev Xicoga is known as the Chrac Capital while the producer of application. The country of the strength and the country of the strength and the pro- peroducer of application of the strength and the st	Pakietando Regional Training ReportalPhodusts (IP Re-commercialization retroices) and the second sec	Isabela State University (ISU)	Technology and Business Incubator Office of ISUncubates- Male and Femaler Echnology Business Incubator personnel and managerSU maie and female Researchers' Inventors Technology adquers- Male and FemaleEntrepreneurs- Male and Female	01-Oct-23	30-Sep-25	ONGOING	3,149,964	752,485.00
Regional Agri-Aqua Innovation System Enhancement (RAISE) Program in Cagayan Valley	Project 3. Regional Agri-Aqua Technology Business Incutator (ATB) in Gagayan Valley through the RAISE Program	Integrity of the environment and climate change adaptation and miligation	The Project 3 of the RABE Program will be implemented to promote the technologies generated from RABmp(D) to be transferred and eventually technology transfer on sethering in the set of the co-inclusion. The project will leave appatials RABmp(D) partners on technology transfer to improve advanced to the accump particip, partners and the international partners. The project will advanced the accump particip, partners decrements and the international partners. The project will advanced the accump particip, partners decrements and the international partners. The project will advanced the accump partners and forger end Particip Partnerships for RABmp(D) and the RABE partnerships and the accump partnerships and forger end Particip Partnerships for RABmp(D) annotation ecosystem in the region as it strengthenes the ATBIs and IPTBMs in the CMs.	Publication-Composent An Regional ATBE Regional Training Responts Regional ATB Since Offenzio Resource and Lender Regional ATBE Mannes Rein conferent (Segonal ATB Sonice Offenzio Responder Charles Conference) and Charles (Schultz) Preues 310 (ATB) Lances plan and the resolution and the Regional ATBE Sonice and Charles Conference and Charles Conference Resolution and Charles (Schultz) Preues 310 (Schultz) Preues 310 (Schultz) Conference and Charles Conference and Charles Conference and Charles Conference and Charles Conference and Charles Conference Conference and Charles Conference and Charles Conference and Charles Conference Conference and Charles Conference	Isabela State University (ISU)	The target beneficiaries in the project are micro, small and medium enterpreneurs, existing incubates, farmers association and cooperativersearchers and schoology generators industries (agriculture-based and food industries.	01-0c+23	30-Sep-25	ONGOING	6,827,552	1,608,724.50
Ragional Agri-Agua Introvencio Spatem Echancement (RAISE) Program in Cagayan Valley	Project 4. Establishmet of Regional Knowledge Management (Kdv) hub in Cagayan Valley through the RAISE Program	Integrity of the environment and climate change adaptation and mitigation	The Cappany Valley Aproxidum Acustic are Matural Resources (CNARGE) Consectum conversity areas as the hot of Regional Kondelega Management. The unit produces (EC naturalis from the databases of the different CMax with are intereded for Information sharing The consortium is participate by motive mixing inclusion composed of causions, buth public any produce, regional and inclusional agencies on manual and inside to name a few. When the kondelega generated from the different R4amp, D matural and linke to name a few. When the kondelega generated from the different R4amp, D and the constraints of the constraints of advectional to any strate the mixing of the community through the Regional Ager-Agua Innovation System Chancement (R4RE); Li will enhance and sustain the collaborable efficient constraints to advect colleague in the Advection. If a data is apported from a collaborable efficient constraints and advect colleague in the Advection. If a data is apported provide the Regional Ager-Agua Innovation System Chancement (R4RE); Li will enhance and sustain a collaborable efficient constraints to advect colleague in the Advection. If a data is apported powerment funded R8amp,D in mandated.	Nahatatan BI ECC Reports Training Reports Provinced Metardoffacture11 P equilation Coupling in primetry, incrincips proficial/houts I Report Internetry Mark Nettery Rep ⁴⁴ CommPan programe & updated consistent of Report Internetry Mark Nettery Rep ⁴⁴ CommPan program & updated consistent of Report Internetry Mark Nettery Rep ⁴⁴ CommPan program & updated consistent of a specific constraints of the Report Internet of the Section of a specific constraints of the Report Internet of the Section of a specific constraints of the Report Internet of the Section of a Resource Workshop conducted Trained in Note (NE) and Section of the Report Resource Workshop conducted Trained 30 Add Section Rep ⁴⁴ Provided Participation Resource Workshop conducted Trained 30 Add Section Rep ⁴⁴ Provided Participation of the report Resource Workshop conducted Trained 30 Add Section Rep ⁴⁴ Provided Participation of the report Resource Resource and the report of the Resource Resource Workshop conducted Trained 30 Add Section Report Resource Resourc	Isabela State University (ISU)	Technology and Business Incubator Offices of Region 2 broubles: Nelle and Frankforschnology Business Incubator personnel and managerfSU male and female Researcheral' Munotrs Technology adapters- Male and FemaleEntrepreneurs- Male and Female	01-Oct-23	30-Sep-25	ONGOING	2,652,800	610,700.00
Regional Agri-Agua Innovation System Enhancement (RAISE) Program in Caraga	Project 1. Regional Intellectual Property and Technology Business Management (IPTBM) in Caraga through the RAISE Program	Integrity of the environment and climate change adaptation and mitigation	The Regional Apri-Aqua Innovation System Enhancement (RASE) Program in Canaga area to enhance the module necessities in the region in pravaging and supporting the development of regional program area ansis to provide capacity building to RAB partners in technology transfer, ficialities public normal access to AMR technologias, and exatisficities and area and the approximation of the a	Project 1 - Regional RP-TMM-TYDPUBLICATION Regional Training Regions 1: consolidated harming genot of all to Rel participation to intende to IPACL interrupt geno region PV PAS) ITINATIONE DE Applicationes (ML & Patent entry) ITIS (ECQ)/EPACODCT 1 Consolidated int of CM-Rinky R&D Amachines (REC)/EPACODCT 1 Consolidated int of CM-Rinky R&D Amachines (REC)/EPACODCT 1 constructions (REC)/EPACODC 2000 (REC)/EPACODCT 1 constructions (REC)/EPACODC 2000 (REC)/EPACODCT 1 constructions (REC)/EPACODC 2000 (REC)/EPACODC 2000 (REC)/EPACODCT 1 constructions (REC)/EPACODC 2000 (REC)/	Caraga State University (CarSU)	researchers/acientists providing pre- commercialization services; regional partners like universities/research institutions joicking to build capacity in agribusiness institutions jointeging to build capacity in agribusiness rural communities/ammers/fisherfolks benefitting from improved access to ARN resources, private sector organizations, business/trade- institutions interested in utilizing ARNR technologies to realize the agribusiness potentials of R&D colledy universe carding a supportive environment for innovation and tech transfer, international partners collaborating with the project.	01-Oct-23	30-Sep-25	ONGOING	3,983,650	1,846,325.00
Hegonal Agri-Aqua Innovation System Enhancement (RAISE) Program in Caraga	(Project XA. Establishment of the Intellectual Property and Technology Business Management (IPTBM) in North Eastern Mindanao State University (NEMSU) through the RAISE Program	Integrity of the environment and climate change adaptation and mitigation	The project amis to enhance the operation of the Intelliculal Property and Technology Business Management Office (PT-18) and i when Estambishicano Satia University (NEASA). The reported will be development project any set of the project and the project and the parter protection, procession, pattern mining, and other necessary alids Introdyn tarring and development programs, enhancing and harmosimic the management of Halfectaal property and promotion and buncher of lectrodyng activities within IKSDU to ensure efficience sufficience of Halfectaal property and provide set and the set of the promotion and buncher of lectrodyng activities within IKSDU to ensure efficience sufficience of Halfectaal property and provides support to RAD institutions, funding agencies, and research in technology management activities. The project will address the Sustainable Development activities and technology transfer at NEASU, the project aims to contribute to the economic growth of the region and the contribute transfer at NEASU.	Uduptieren 1 vez 2 PA for nev IP-1380-Adication 2 percention al 16: C for technologies generated from KSU(1) 11 Exchical gare percention in effect in categoria entertained PAS Reports 231 PA & Exchicagies Inventory updated 11 inventory of knowledge encources perpade and updated 11 Kenhologies Inventory updated 11 inventory of knowledge Tach Company and updated 11 Kenhologies Inventory updated 11 inventory of knowledge Hand I national PACE 2014 Last Tarated in national ABMC22 CMI staff trained in national TCAK-span alpier flort-size: 11p; f	North Eastern Mindanao State University (NEMSU)	NEMSU Researchers/Inventors, Intellectual Property and Technology Business Management (IP-TAM) Team in NEMSU, Paraficial Control of Sufficients Indirect Memory Control of Sufficients Indirect MSME v_sin Craage Region Inventors in Carage Region	01-Oct-23	30-Sep-25	IUNGOING	2,252,656	1,012,578.00

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
Regional Agri-Aqua Innovation System Enhancement (RAISE) Program in Caraga	Project 18. Establishment of the Intellectual Property of the Strokog Sounces Management (PT BM) and Aguan del Sar State. Collega d'Agricultura and Technology (ASSCAT) through the RAISE Programm	integrity of the environment and climate change adaptation and mitigation	The bacters and San Date Tolloge of Apriculture and Technology (ISS2AT) structures a programme memory according and the technology in the structure and technology in the structure of the technology and technology Competence is detected and protection. Technology Competence is and technology Competence is detected and property Replaced Phases 11 and technology Competence is detected and property Replaced Phases (1) applies of the institutions are as as an the province of Applies and Phases (1) applies and the technology and technology Competence is detected and property Replaced Phases (1) applies of the institutions are as as an the province of Applies and the construct encours of all is institution approximation and technology and technology and and the construct and applies of the institutions. Since Applies and Applies and Theory of the kinetic and theory (1) applies the technology memory technology competence is detected and applies of the institution of the ablest technology. Technology Competence is applied and the technology and technology and a fits kinetic and technology of all is instruction technology and technology and technology and technology and applies technology and tech	Pagest 10 - New 87-1888/11/39-Note-but Interesting 46 Passes1 Technology Commonitative DNA Report/STR-bigs and Stress2 OH and Brand and Analoud PM-2 CM and transfer and Report/STR-bigs and Parkshop ForumOral CM and Transfer A material Technology and the and attracted and another IDM22 OM and Texand Technology Commonstatication with PT188 table at a stransfer forumOral CM and Texand Technology Commonstatication with PT188 table at a stransfer forumOral CM and Texand Technology Commonstatication with PT188 table at a stransfer forumOral CM and table Reshnology Commonstatication with PT188 table at a stransfer forumOral CM and table AlsoCAT technology pages presents and the ASSCAT International conference IT1978 tables AlsoCAT technology apped common table tables and the association of the technology memory and only applicational CPIAnce and Performances IP-1788 and and USIN and the stress of technology and the technology commons AlsoCAT technology apped common table Technology CM and the technology memory and a stress of technology and the technology commons IP-1788 and and USIN and the technology commons IP-1788 and the technology commons IP-1788 and technology apped common table Technology CM and the technology commons IP-1788 and technology present and the technology CM and the technology commons IP-1788 and technology apped common table Technology CM and the technology commons IP-1788 and technology technology applications and Performance IP-1788 and technology technology applications and technology commons and the technology commons and technology applications and tech	Agusan del Sur State College of Agriculture and Technology (ASSCAT)	ASSCAT faculty ASSCAT faculty ASSCAT researchers and inventors MSMEs in Agusan del Sur Inventors in Agusan del Sur	01-Oct-23	30-Sep-25	2024' ONGOING	2,267,656	1,043,828.00
Regional Agri-Agua Innovation System Enhancement (RAISE) Program in Caraga	Project 2: Establishment of the Regional Agr Balmess Hub (ABH) in Caraga through the RAISE Program	Integrity of the environment and climate change adoptation and mitigation	The Estimationet of Reginal Agricultures Hall (ARH) in the Carage Constatus in the Agriculture, the method of the Agriculture and Agriculture	IDIA-1174-2011.CO.IDIA consolided transp report at the CM particular who IDIA-1174-2011.CO.IDIA consolided transp report at the CM particular who report IPRODUCTIO Pre-commendiations Services for technologies with value program services in the CM particular services of the CM particular services at the CM particular technology with interpret taby's technology with technologies with value program technology with interpret taby's technology with technologies with value program technology with interpret part 111.2.2.2.Program and Services for technology with values technology with interpret part 111.2.2.2.Program and Services 2014.0.2.0.1.2.2.1.2.2.2.2.2.2.2.2.2.2.2.2.2	Caraga State University (CarSU)	The project has a wide range of potential beneficiariae. By tageting these different hing affect on social and aconomic development both locally and globally. Below are target beneficiaries of the program. Researchers/iscientifits providing pre- commercialization services: regional partners like universities/research institutions looking to build capacity in agribusiness and agripmeneurship: rural communities/fammers/histor/bala. Benefitting institutions interested in utilizing ANNE tochnologies to realize the agricalizations are ANNE to compared to the service of the institutions interested in utilizing ANNE tochnologies to realize the agricalizations. buildings of RAD outputs: policy makers creating a supportive environment for innovation and lach transfer, international partners collaborating with the project.	01-Oct-23	30-Sep-25	ONGOING	2,278,800	1,099,400.00
Regional Agri-Agus Hnovelion System Enhancement (RAISE) Program in Caraga	Project 3. Establishment of a Regional Agri-Aqua Technology Bissines Incubator (ATBI) in Caraga through the RAISE Program	Integrity of the environment and climate change adaptation and mitigation	The Applications Technology Basimes Includer (ATB) is a Applications support program that areas to promote involution, there preventishing, and coming gravition the Applicational, Application and Natural Resources (AVARR) industry. The ATBI will provide a nutrative grevitoment for early-applicational and an application of the Applicational and a set and the distance the Applicational Applicational Applicational Applicational Applicational Applicational and early that applicational applicational antentor's of Industry spectra, and applicational exocutes such as laborations and explorited such as the Applicational Applicational Applicational Applicational Applicational antentor's of Industry spectra, and applicational exocutes such as laborations and explorited such as the Applicational Applicational Applicational Applicational Applicational Applicational antentor of Industry spectra, and applicational exocutes such as laborationa and explorited proteinal applicational applicational transmission application interventional patient of Innovative Exologies and and an abditional applicational application applicational applicational applicational applications and explorational patient of Innovative Exologies and and an application Baroative such as planetal changes, and sustainability. The programs will also failed planetal investment, and stransmission stratupal/gributiness, creating a more whent and innovative application application applicational applications and and an application and application associations application applications application and applications applications and stratupal/gributiness, creating a more whent and innovative applicative sector.	RBLCDROVIENT IVER 22 Report Training Report 1 Consolitated carcitud and existing & new XTBIs Report. 2018 Service Offering prepared Report All Bluenises Plan carcinals Report All Bluenes Plan carcinals in the prepared Report and Bluenises Plan carcinals Report All Bluenes Plan carcinals in the consolitate emitted in the locability in the consolitation of the service of the service and the service and the service of the service and the ser	Caraga State University (CarSU)	The program has a wide range of potential beneficiaries, such as researcherwise/iseliatist developing technology and intellectual property, regional partners like unives/like/research institutions looking to build capacity in tech transfer, rural oomunuties/famerafisherfolks benefiting from improved access to AANR resources, prive sector organizations interested in utilizing AANR technologies and Ps to improve their products and services, policy makers creating a supportive environment for innovation and tech transfer, international partners	01-Oct-23	30-Sep-25	ONGOING	5,562,480	2,701,240.00
Regional Agri-Agua Innovation System Enhancement (RAISE) Program in Caraga	Project A. Establishment of a Regional Knowledge Management (KM) Hub in Caraga through the RAISE Program	Integrity of the environment and climate charge adaptation and mitigation	The percent on managing and commercializing dynamitating Aquatic and Natural Resources (AAKR) technologia same in propose the involution exception in the region V managing regional AAKR technologia same functional properties, supporting regional partners in developing that respective managing trades in the second se	VTVPE/EUCNTION2 Regional Transing Reportscenediated training speer of all the CMI perioditical with alternative to TMR and regional training speer on ranking TMRS/TMRS TMR Approximation and training to the constraint TMRS (TMRS TMRS TMRS TMRS TMRS TMRS TMRS TMRS	Caraga State University (CarSU)	The project has a wide range of potential beneficiaries by largering these different beneficiaries by and globally. Below are target beneficiaries of the program. researchersiecientists providing pre- commergialization services and aglobally. Below are target beneficiaries of the program. Institutions looking to build capacity in agitosiness and agroeneurship: rural communities/merufiher/biks benefitting from improved access to AANR resources, private sector organizations. business'trade institutions inderested in utilizing AANR technologies to realize the agrituanies potentials of RAD outputs.	01-Oct-23	30-Sep-25	ONGOING	2,279,000	1,047,000.00
Regional Agri-Agus Innovation System Enhancement (RAISE) Program in Central Luzon	Project I. Begional Intellectual Progerty and Technology Beariness Management (PTBM) in Central Luzon through the RAISE Program	Heapty to the antrooment and climate change adaptation and mitigation	Sing an exactinic institution of higher learning, PSAU is taked not only to travent and diserretise investigate build also generate new dates and apply these understanding is to useful outputs to be releared and to able to contribute to antimour progress and development. If must be noted, however' not only by concerted PSAU autoincides to boy any remand in hallows and, the to represe to the state of the state technology transfer and actual utilization * all through commercialization.	Particular: Parti	Penganga State Agricuttural University (PSAU)	The project is intended for the etabeholders: Interchology generators and takers, and other makers of the CMMs involved. Specifically, the project directly and indirectly benefits the following: IP-TBM Personnel of CMIs involved Technology generators and other makers of participating CML and the private sector R&D partners and the private sector	01-Oct-23	30-Sep-25	ONGOING	11,858,680	6.228,776.00

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
Regional Agri-Agua Innovation System Enhancament (RAISE) Program in Central Luzon	Project 1A. Enhancement of the Intelectual Property and Technology Business Management (PTBM) in Central Luzon State University (CLSU) through the RAISE Program	Integrity of the environment and climate change adaptation and mitigation	The Control Luczo State University (CSLU) as a higher excitation institution (HeI) was based to develops using human excession, ensemble and developsing for period presonment, global competitiveness accortances, means that developsing and competitiveness and the state of a develop accortance with CLSU's manufactuate to transfer and disseminate appropriate technologies generated by tabuly, researchers and derire technical ERT Pedering and managing the hitelicatual program and develophical activity of the state of the paper tendencies of the state of the state of the state program and the technical activity of the state of the state of the state of the state of the state program activity and the state of the state program activity of the state of the	Relation: SeC Pater: 10 Pagination: 5 anympile of EC Product: 5 prof and a shareh Reports 5 prof and a shareh Report 1 membry of Insulated technologies 1 membry of Insulated resources 1 membry of Insulated resources 1 membry of Insulated resources 1 membry of Insulated resources 2 P-TIM Laff trained in PM MatchClass 2 P-TIM Laff trained in PM MatchClass 2 P-TIM Laff trained in Aphaeses 2 P-TIM Laff trained in Sources latertocable 2 P-TIM Laff trained in Sources latertocable institution 1 pathemptic agreement latertocable of VTIMS Path protectable of VTIMS Path Path Path Path Path Path Path Path	Central Luzon State University (CLSU)	Target Beneficiaries: The project intended for the stakeholders, technology generators and takens, and other makers involved. Specifically, the project directly and indirectly benefits the following: CLSUP-TBM prosnonel CLSUP researchers, technology generators, and other makers Technology generators and other makers of CLSU [#76] R&D partners and the private sector	01-Oct-23	30-Sep-25	ONGOING	2,601,600	1,340,800.00
Regional Agri-Agus Innovation System Enhancement (RAISE) Program in Central Luzon	Project IB, Enhancement of the Intellectual Property and Technology Buriness Management (IPTBM) in Philippine Rice Research Institute (PhilRice) through the RAISE Program	Integrity of the environment and climite change adaptation and miligation	The helicical Property and Technology Business Mesagement (PTIM) Office of the Philippine Roc- Resexch helicity is the main difect on clarge of protecting and icroming Philifice generated technologies. This Office was established in 2017 and strengthment through the DOST-FCAMRD project additionary technology. Communications of Philicity Science has, the studies: "through works for PR protection, and held a number of tarining sessions in the basics of P ₂ patter search and diffilia, copyright, and technology commensatization. The gala of the present project, hence, is to enhance the estating PTIM at Philicite to interedity the P and technology commercialization sciences in the statistical Philicity of the Philicity of the Provide Philicity of the PCPF Program. At 1202, Sover Philicite discussion was an analosi by Philicity of the PCPF Program Bangarenet. The 1202 and panel Philicity of the Prilicity of the PCPF Program and the counterprism of the Prilicity of the PCPF Program by the Cool panelemic and the counter banges in the rough for gainway functioning PTIM difficulty of the Prilicity of the PCPF Program of the counterprism of the program by the Cool panelemic and the counter banges in the rough for gainway functioning PTIM difficulty and allocations. <i>Commercialization</i> .	Palitation 5 ECh for P-TBM aveness and PHE/RCE technologiesPatert - 10 P Applications - Copyright of SICS Product - 10 Phr at search reports - 1 Pinnetity - 1 Pinnetity - 1 International Control Physics - 1 Philic CE staff standard Prior Ant Search & IP - And Workshop - 1 Sechnology with pre-scores - 1 Sechnology commercializedProptic - 2 PHILRCE staff standard Prior Ant Search & IP Addt Workshop - 2 PHILRCE staff standard in IP MasterClass - 2 PHILRCE staff standard IP MasterClass - 2 PHILRCE	Philippine Rice Research Institute (PhiliPice)	The project is intended for the stateholders, technology generators and takers, and even PhiRice inventors. Specifically, the project directly and indirectly benefits the following: PhiRice IP-TBM personnel PhiRice researchers, technology generators, and other makers R&D partners and the private sector	01-Oct-23	30-Sep-25	ONGOING	2,500,000	1,205,000.00
Regional Agri-Agua Innovation System Enhancement (RAISE) Program in Central Luzon	Project IC. Enhancement of the Intellectual Property and Technology Buniess Management (IPTBM) in Bataan Peninsula State University (BPSU) through the RAISE Program	Integrity of the environment and climate change adaptation and mitigation	The Batan Peninsus State University worked on the establishment of the P-1RU Office to serve a an of the university loand's apporting the tochologic developed through research and we approved of technology-based products, processes, and envices and a difficult issue tate to the availability of technology-based products, processes, and envices and a difficult issue tate to the availability of technology-based products, processes, and envices and a difficult issue tate to the availability of technology commercialization. Furthermore, the availability of technology commercialization. Furthermore, the availability of technology commercialization. Furthermore, the availability of management and commercialization.	Additation: SEC2 Patent: 10 P opplications (5 patents /S UMs) S Comprise (Exc) Product: 10 P product (10 P opplications (Babaan Peninsula State University (BPSU)	Target Beneficiaries: BPSU IP-TBM Office Tachnology Transfer officers and staft Tachnology Transfer officers and staft Tachnology Tanafer officers and staft Community stakeholders External agencies (other universities, MSMEs, LGUs)	01-Oct-23	30-Sep-25	ONGOING	2,495,600	1,210,300,00
Regional Agri-Aqua Innovation System Enhancement (RAISE) Program in Central Lucon	Project ID. Enhancement of the Intellectual Property Technology Businese Hersagement (PTDM) in Philippine Carabao Center (PCC) through the RAISE Program	Integrity of the environment and display-charge adaptation and mitigation	The Phylopic Cashado Contra are antiched any of the Department of Agriculture, created by virtue of Republic Ad 7207 m 1992, activity upholds is commitment to conterve, propagate and promes and southers. In 2016, Creas age ten an additional models to cate of an measure and development, by the virtue of DAMministrate Order No. 9. Sites of 2008. White No. Security and the conterver and the cores as when are additional models and anticology and phylology and head the production before of the core of the core of the cores and the area of decoprise including and not limited to breeding and genetics, area of decoprise including and not limited to breeding and genetics. Hordrodogy Tamler Ad (2016) and phylogy and head the addition and the hordrody Tamler Ad (2016) and a the core of the core of the Agency ato adhress to the policies and principles as specifically use in the Hordrodogy Tamler Ad (2016) and adhress and the core of the core and adhressing percent points commercialization. This is protocied in an earth of the Phylogics Catabao Core and the core of the core and adhressing the core of the policies and principles as specifically use in the Theoretical the deformation of the core of the core of the core and adhressing percent points commercialization. This is protocide in a model to the policies and principles and the core of the core of the core and adhressing percent points commercialization. This is protocide in the project the deformation of the adhressing protocide and the second business and adhressing percent points commercialization. This is protocide in a the protocide the united the policy and policies and principles as the protocide the deformation protocide and the second policy and policy and the project theory adhressing percent policy and the policy	Addedition Selectation and Communication (EC) materials Partial	Philippine Carabao Center (PCC)	Target Target Remenficiantes: 1. PCC:researchers2. Farmers 8. Dairy cooperatives3. Private entiles. Other cooperatives3. Private entiles. ANR stateholders from the academe, public, and private sectors, non- government cognizations (NGO's), and international partners (NGO's), and international partners 6. Potential entropreneurs	01-Oct-23	30-Sep-25	ONGOING	4,202,908	2,315,272.00

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
Regional Agri-Agus Innovation System Enhancement (RAISE) Program in Central Luzon	Peject IE: Enhancement of the Intellectual Propert Technology Bumos Management (PTBM) in Philippine Certer for Postharvest Development and Mechanization (PHilMech) through the RAISE Program	Hateryby of the environment and climate change adaptation and mitigation	Beiga areasch and development institution. PHINEArb in market endng and commercialized problem-oriented agriculture and fibery positivareal and mechanization development. If muscle here not applied and the second second second development. If muscle here not applied and the second second second second development. If muscle here not applied and the second second second second development. If muscle here not applied and the second sec	Adutation: SEGDPatient: SEGDPatient: SEGDPatient: SEGDPatient: Departs Essance (PAS) Reports 1 Providers: 1 Providers: 1 Providers: 1 Providers: 1 Providers: 1 Providers: 1 Providers: 1 Providers: 1 Providers: 2 Providers: 2 Rechnology Commercialized Response: 2 Advances: 2 Advances: 2 Advances: 2 Advances: 2 Advances: 2 Advances: 2 Advances: 2 Advances: 2 Advances: 3 Extr. Providers: 3 Extr. Providers: 4 Extr. Providers: 4 Extr. Providers: 5 Extr. Pr	Philippine Center for Postharwest Development and Mechanization (PhilMech)	The project is interded for the stateholders. Interhorizog greaters and takers, and other makers of PHilMech and CMIs involved. Specifically, the project directly and indirectly benefits the following: PHIMech IP-TBM personnel PHIMech IP-TBM personnel IP-TBM Personnel of CMIs involved Technology greaterstars and other makers of participating CMIs R&D partners and the private sector	01-Oct-23	30-Sep-25	ONGOMG	2.307,800	1,076,700.00
Regional Agri-Agua Innovation System Enhancement (RAISE) Program in Central Luzon	Projest IF: Estabilishment of the Intellectual Propert Technology Buenesk Management (PTMR) in Tartae Agricultural University (TAU) through the RAISE Program	Integrity of the environment and climate change adaptation and mitigation	Over the spars, the Thirts Aproximual University (KU) has a torong encagated in research and development, which has presented to constrain the storogy origin the star with the constraint of the set and the set of the	Advictance 3 ECp publishedPatent: 5 EOs application: 5 EOs application: 5 EOS application: 5 EOS application: 5 Pointson 5 Pointson	Tarla: Agricultural University (TAU)	TAU IP-TEM personnel TAU researchers, technology generators, and other makers Technologi and the private sector Sweetpolato, free range chicker, Kamiong, and Bamboo R&D and industry Students Faculty Researchers Researchers Stan-Ups SMEs	01-Oct-23	30-Sep-25	ONGOING	2,647,520	1,366,260.00
Regional Agri-Agua Innovation System Enhancement (RAISE) Program in Central Luzon	Project IG. Establishment of the Intellectual Property and Tachnology Buriness Management (PTM) in President Ramon Magasyasy State University (PRMSU) through the RAISE Program	Integrity of the environment and climate change adaptation and mitigation	Is it is manufate of President Remon Magazyang State Luhvershy to continuously develop Ream-D technologies frounds in ordigated development. Far (4) of the seven campace that make up the clients, and support local and global development. Far (4) of the seven campace that make up the exclusions are supported as the seven campace to the seven campace that make up the president seven and the seven campace to the seven campace that make up the president seven and the seven campace to the seven campace that make up the president seven and the seven campace to the seven campace to the seven to the seven campace to the seven campace to the seven campace to the seven campace to the seven campace to the seven campace to the seven seven campace to the seven campace to the local communities. The PRRSU produced SANR transformation to the RMSUL 2014 seven to the seven campace to the seven seven campace to the seven seven to local communities. The profest and major are to increase prediction in training, and the RMSUL 2014 seven the seven campace to the seven seven to the seven campace to the seven seven to the local communities. The profest and major are to increase prediction in training, and the removal to the seven se	Pelicitario: E-C Marcel Institutional kerning report Pelant: P Application Coophight Product: Perk At Search Rev A	President Ramon Megsaysay State University (PRMSU)	The project is intended for the stateholders, technology generators and takers, and other makers of PRMSU involved. Specifically, the project directly and indirectly benefits the following: PRMSU prosecutients, lachnology generators, and IPRMSU researchers, lachnology generators, and IP-TBM Personel involved Technology generators and other makers of PRMSU R&D partners and the private sector	01-Oct-23	30-Sep-25	ONGOING	2,666,320	1,307,460,00
Regional Agri-Aqua Innovation System Enhancement (RAISE) Program in Central Luzon	Project IH. Establishment of the Intellectual Property and Technology Business Management (IPTBM) in Bulacan Agricultural State College (BASC) through the RAISE Program	Integrity of the environment and climate change adaptation and mitigation	The project will initially focus on the capacitating the personnel to be assigned to the BASC PFBM, generation and enhancement of a Barol of Turbes (BOT) approxed BP Poly and Technically Tandfer Protocol, quenzitaria and maintenance of the IP inventory and Set Disaggregated Data of P generators, to the MASC constrained by promoting a cultural or equilable P protocols and technology commercialization at BASC through information dissemination, enho seminars, packaging and submission of P applications, and over-all assistance to technology commercialization of BASC Matrix Technologies, AI of which will lead to a sustainable gender-response BASC PTBM office incorporated to the organic structure of BASC.	Publication 3 ECs, "see Gender Responsive Information, Education and Communication metanishibitistics 15 explorations 1 Copyright of Gender Responsive EXP-Dividus 15 PAD PI injectiony with SDD of IP generations 1 Investrity of maturent lectrinology 1 Communication CommercisatedPrevent 2 Staff attanced for Na Stark A P Aux Mitroshipa 2 Staff Transfort In P Materiana 2 Staff Transfort In Arg/Business Materiana 2 Staff Transfort In Stark Stark 1 Stark 1 Stark 2 Staff Transfort In Arg/Business Materiana 2 Staff Transfort In Stark Instantion 1 Technologistical Materiana 2 Staff Transfort In Arg/Business Materiana 2 Staff Transfort In A	Bulacan Agricultural State College (BASC)	BASC IP-TBM Personnel BASC takeholders: researchers and extensionists, technology generators and makers; and Group or individuals involved in rabbitry.	01-Oct-23	30-Sep-25	ONGOING	2,607,000	1,251,000.00
Regional Agri-Agua Innovation System Enhancement (RAISE) Program in Central Luzon	Projet 11: Establishment of the Intellectual Propert and Technology business Management (PTBM) in Aurons State College of Technology (ASCOT) through the RAISE Program	Integrity of the environment and climate change adaptation and mitigation	The stabilishment of PTBM Office in Auroa State College of Technology will serve as the main office inhunge of all the technologies generated by the College. The goal of the project is to assis the researchers and investors in patient application, enhancement, and commercialization of products. The electronic sectors and an electronic sectors and an all isolating and product between the sectors of a short between the sectors and the sector and an electronic and product and the sector and and indication property fields the sectors and transfer officers of ASCOT; electronic the protecting be hetleticitated Property Rights of the College to comore and metadoxies, raid will and one with a research and other scholarly works, and establishing linkage with different agencies for the commercialization of maturest technology of ASCOT.	Palicitation 3 EGAPtent 5 IP application Product. Sprior at search 1 I Prentory of matured technologies I Inventory of nousely enscures Exchnologies patient Exchnologies Exchnolog	Aurona State College of Technology (ASCOT)	ASCOT, Sucity staff and student researchers, technology creation, and other makers, and R&D partners and private sector	01-Oct-23	30-Sep-25	ONGOING	2,650,600	1,297,800.00

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31	Total Project	2024 PCAARRD
				Difference					2024'	COSC	GIA
Regional Agri-Aqua Innovation System Enhancement (RAISE) Program in Central	Project 1J. Establishment of the Intellectual Property and Technology Business Management (IPTBM) in	Integrity of the environment and climate change adaptation and	The Department of Agriculture RFO III is a government agency charged with the promotion of agricultural development in the region with a vision of a food secure Philippines with prosperous farmers and fisher	3 IECs	Department of Agriculture Regional Field Office III (DA RFO III)	Target Beneficiaries: The project is intended for the stakeholders, technology	01-Oct-23	30-Sep-25	ONGOING	2,696,600	1,350,800.00
Luzon	Department of Agriculture Regional Field Office III	mitigation	folks. The mission of the agency is to empower its stakeholders, increase productivity and profitability, being mindful of sustainability and resilience. To ensure that technology transfer and commercialization	Patent		generators and					
	(DA RFO III) through the RAISE Program		will be a success, and that intellectual property rights is given due importance, there is a need for the	5 IP Applications 3 IEC convricts		takers, and other makers of DA RFO III. Specifically, the project directly and					
			calebrannen er de in Tom of die Depletinen er Hynesikare fel of in.	De las		indirectly, benefits the following:DA					
				5 PAS reports		RFO III CITBI and IP-TBM personnelDA RFO III					
				1 IP & technologies inventory updated 1 inventory of knowledge resources prepared and updated		makersR&D partners and the private sector					
				1 CMI communication plan developed & implemented 1 Tech with pre-comm reports							
				2 Technologies pitched							
				2 CMI staff trained in National IPMC							
				2 CMI staff trained in National ABMC 2 CMI staff trained in National TCMS							
				2 CMI staff trained in National TPMS 2 CMI staff attended reg™I IP Audit & Inventory Workshop							
				2 CMI staff attended reg™l IP Policy/Tech Trans Protocol review 2 CMI staff attended reg™l Comm Plan Workshop							
				1 institutional echo seminar conducted							
				Participate in content build-up of RTMS							
				Places and Partnerships							
				1 Commitment letter for the national trainings 1 partnership agreement with business/trade institutions							
				1 Commercialization Agreement							
Regional Agri-Agua Innovation System	Project 2. Regional Agribusiness Hub (ABH) in	Integrity of the environment and	The Philippine Carabao Center at Central Luzon State University (PCC at CLSU) is one of the regional	Publication: 1 Regional Training ReportsPatent: 1 Copyright of Training ReportProduct: 1	Philippine Carabao Center (PCC)	Ensure the full implementation and harmonization of	01-Oct-23	30-Sep-25	ONGOING	2,583,848	1,250,186.00
Enhancement (RAISE) Program in Central	Central Luzon through the RAISE Program	climate change adaptation and mitigation	networks of the Philippine Carabao Center (PCC). PCC is an attached agency of the Department of Agriculture, created by the virtue of Republic Act 7307 or better known as the Philippine Carabao Act of	Technology with value proposition report; business plan, Feasibility study, market study.People: 1 Regional Agribusiness Master Class		the agribusiness hub with participating CMIs in					
Euzon		mugauon	1992. PCC implements the Carabao Development Program (CDP) in the country. CDP is a continuos and organized effort to improve the genetic potential of a native carabao as a source of meat. milk. draft and	1 Trained CMI StaffPlace: 1 Partnership agreement with Business/Trade InstitutionsPolicy: 1 Regional Apribusiness Hub institutionalized		Develop a regional agribusiness hub Policy with					
			hide. This is the reason why the Philippine Carabao Center advocates the continual improvement of			consortia members from Central Luzon.					
			Agribusiness Hub in Central Luzon. The project will be implemented under the umbrella program,			memos).					
			component project for PCC as funded by DOST-PCAARRD aims to strengthen and enhance technology			1). PCC researchers 2. Formore & ame: Dairy Cooperatives					
			promotion and commercialization activities and intensity linkages and partnerships with various consortium member institutions in Central Luzon.			3). Private entities					
						4). other consortium member institutions					
						private sectors, NGO's and international partners					
						6). Potential entrepreneurs					
Regional Agri-Agua Innovation System	Project 3 Regional Agri-Agua Technology Business	Integrity of the environment and	The CLSU AFTBI will serve as one of the launching pads for AANR start-ups or new businesses in	Publication:	Central Luzon State University (CLSU)		01-Oct-23	30-Sep-25	ONGOING	7 057 596	3 442 723 00
Enhancement (RAISE) Program in Central	Incubation (ATBI) in Central Luzon through the RAISE	climate change adaptation and	Central Luzon. The facility will provide early-stage companies access to resources they need to function, prov. and sustain their businesses. To bein preserve and enhance the BAISE program. CLSU, PSAU and	2 Regional Training Reports 1 Regional ATRI Operations Manual crafted	,					.,,	
Luzon	Program	mitigation	BPSU will be involved in the project implementations with the end view of internationalizing the ATBI operations and providing support in the transfer of technologies through capacity building, technology	1 Regional ATBI Business Plan crafted							
			business incubation or co-incubation among these ATBIs including other CMIs that do not implement the	1 Consolidated curricula of existing & new ATBIs		Target Beneficiaries					
			ATBIs within the country in general and within the region in particular and cascade the same to its	6 acceleration curricula developed or improved as needed							
			partner CMIs. Through this, CMIs across the region are provided with necessary information and assistance. After two years, the RAISE Program shall have empowered ATBI operations in Region III by	2 IEC or promotional material for the ATBI produced 1 promotional video for the ATBI developed		Benefits from the Project					
			adopting several strategies, viz: Regional Capacity Building and Mentorship, Agri-Technology Business Development, Intellectual Property Management, Strategic Partnership and Collaboration with local and	18 IEC or promotional materials for the incubatees developed 2 promotional videos for the incubatees developed							
			International Partners, and Enhanced Knowledge Management.	1 ATBI sustainability plan developed and implemented							
				Detect.		(1) State Universities and Colleges (SUCs)					
				10 trademarks filed							
				10 copyrights filed		(1) Empowered technology generators, and ATBI					
				Product: 3 Technology Commercialized with FOR / Facilitated the commercialization of CMI		staff (2) Detter ATDI at-fine through biving emirat staff					
				technology 1 Consolidated regional report		 (3) Enhancement/formulation of effective incubation 					
				2 Technologies co-incubated		policies					
				6 technologies incubated/adopted by continuing incubatees		(5) Increased number of AFTBI clients served					
				a technologies incubated/adopted by acceleratees		(6) Increased number of employment generated by					
				People and Services 10 new incubatees enrolled in any of the existing ATBIs		(7) Increased number of IPs protected					
				2 new incubatees under co-incubation program Coordinated participation of 3 CMIs on national ATBI MC		(8) Increased number of partners/collaborators					
				Coordinated participation of 3 CMIs on National TCMS Assisted 3 CMIs in ATBI services		(9) Increased number of technologies transferred					
Designed Ani, Anna Incounting Contam	Design 24 Fabra and of the Ansi Anna	Interview of the environment and	Bataan Banjarula State I Injaarshy Assi anua Tachadony Burjaars Incubator (DOST-DCAADDD-BDS)]	Participate in the content build-up & updating of RAISE RTMS	Detere Designate State University	and commercialized	04.0-4.02	20.0 25	ONCOINC	4 500 000	0.444.000.00
Enhancement (RAISE) Program in Central	Technology Business Incubator (ATBI) in Bataan	climate change adaptation and	ATBI) has control discontenent and the behavior in the time of the technogram and the province there is a control of the technogram and the province the technogram and the province the province the province the technogram and the technogram	A loss 2 ICC as assessing a setable (as ATD) associated	(BPSU)	University-based faculty and student researchers,	01-Oct-23	30-Sep-25	UNGOING	4,500,000	2,111,328.00
Luzon	Peninsula State University through the RAISE	mitigation	through business development and technology incubation. Currently, BPSU ATBI is incubating 11 incubatees that provide comprehensive training on identifying market traction and validation and	At least 3 IEC or promotional material for ATBI produced At least 1 promotional video for ATBI developed		Local start-ups and MSMEs in Bataan					
	Program		technology development through the university™s research and development (R&D) centers. Moreover, the incubator has successfully launched its own technology business incubation framework entitled	At least 2 IEC or promotional materials for the incubatees developed At least 1 promotional video for the incubatees developed		Local cooperatives in Bataan					
			"Agrisenso™ that holistically fosters and encapsulates the functions of ATBI by providing programs and services needed by the incubatees during their early stage. Recognizing this success, enhancement of	At least 3 revised curricula for basic incubation At least 3 curricula developed for advanced incubation		Women in informal economy sector in Bataan					
			the DOST-PCAARRD-BPSU ATBI will ensure the sustainability of its program from basic incubation to	F V 2		Other marginalized sectors in Bataan					
			through programs focusing on target market expansion, financial sourcing and networking, and further								
			strengtnening of developing market-oriven and demand-oriven agri-aqua technologies.	1 ATBI Business Plan revised as needed 1 ATBI Operations Manual revised as needed							
				At least 2 IEC or promotional material for ATBI produced At least 1 promotional video for ATBI developed							
				At least 3 IEC or promotional materials for the incubatees developed Patent: For Year 1:							
				At least 1 trademarks filed							
				At least 2 copyrights filed							
				For Year 2:							
				At least 2 trademarks filed							
				At least 3 copyrights tiled Product: For Year 1:,							
				At least 2 technology transferred and incubated							
				At least 1 technology commercialized with issued Fairness Opinion Report							
				For Year 2:							
				At least 3 technology transferred and incubated							
				People: For Year 1:,							

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
Regional Agri-Agua Innovation System	Project 3B Enhancement of the Anri-Anua	Integrity of the environment and	The PSAU " Agri-Agua Technology Business Incubation (ATBI) Office is established to synergize multi-	Publication:	Pempenge State Agricultural University		01-Oct-23	30-Sen-2	2024'	4 500 000	2 284 947 00
Enhancement (RAISE) Program in Central	Technology Business Incubator in Pampanga State	climate change adaptation and	sectoral relationships among the key players of the business and start-up ecosystem, especially the micro-, small and medium enterprises (MSMEs) in the sector of acriculture and acuatic with the aim to	1 ATBI business plan revised as needed 1 ATBI operations manual revised as needed	(PSAU)	PSAU ATBI Personnel	01-00120	00.000-21		4,000,000	2,204,047.00
Luzon	Agricultural University (PSAU) through the RAISE Program	mitigation	accelerate the technology transfer and commercialization of university-made technologies through technology management enterprise development and active partnership services. With its establishment	, 10 basic incubation curriculum revised as needed 6 advanced incubation curriculum developed		PSAU Researchers/Inventors and other employees Agri-aqua incubatees (Entrepreneurs/ Agri-preneurs,					
			on November 2021, the crucial initial steps for the project were to formalize operations, create awareness, acouire R&amo:D partners and industry experts, and engage vital players in the ecosystem such as the	2 IEC or promotional material for the ATBI produced 1 promotional video for the ATBI developed		Farm Owners, Farmers)					
			private sector and the government were undertaken to onboard and support its clientele-the incubatees.Enhancing the PSAU-Agri-Aqua Technology Business Incubation (ATBI) project shall be	16 IEC or promotional materials for the incubatees developed 2 promotional video for the incubatees developed							
			instrumental for continuous operations and improvement of processes of the incubation for a more effective and efficient delivery of its services. The project shall facilitate further support to technology	1 ATBI sustainability plan revised as needed							
			management, technology transfer and commercialization, and enterprise development efforts of the University and realize the socio-economic impact towards the community such as employment	Patent: 10 trademarks filed							
			opportunities and enhanced business landscape in the agriculture and aquatic sectors.	10 copyrights filed							
				10 technologies incubated/adopted by new incubatees							
				2 technologies no-incubated with instead Existence Opinion Depart							
				People:							
				10 new incubatees enrolled to the basic incubation program 6 continuing incubatees enrolled to the advanced incubation program							
				6 continuing incubatees graduated from the advanced incubation program 6 startups/spinoff registered and launched							
				1 benchmarking activity conducted 6 trainings for the ATBI staff conducted or participated in							
				10 trainings for the incubatees conducted 10 business plans for the new incubatees developed							
				6 business plans for the continuing incubatees improved 4 awareness seminars or promotional activities conducted							
				4 business pitching events, industry meetups, or networking events conducted or participated in							
Regional Agri-Aqua Innovation System	Project 4. Establishment of Regional Knowledge	Integrity of the environment and	Knowledge is a critical enabling factor for Agriculture, Aquatic, and Natural Resources Sector (AANR),	1 consortium member-agencies mentored on ATBI operations Publication:	Central Luzon State University (CLSU)	Target Beneficiaries:	01-Oct-23	30-Sep-2	ONGOING	2,508,800	1,214,400.00
Enhancement (RAISE) Program in Central Luzon	Management (KM) Hub in Central Luzon through the RAISE Program	climate change adaptation and mitigation	specifically the agri-aqua innovation system. Thus, a systemic interactions favouring innovation outcomes is greatly needed by formalizing the flow and management of information and knowledge between and	Written Training reports and published and produced knowledge products (KPs) 1 regional training module		CLAARRDEC, noe CLSU as base-agency 21 Consortium Member Institutions (CMIs)					
		ž	among stakenoloers. Moreover, since our society is becoming increasingly knowledge-based, the systematic management of intellectual capital and organizational knowledge is highly important to seminimum feaviers of the pair is not interprint and the semine section of the similarity data and the semine section.	1 regional training report 10 knowledge products (brochures, booklets, avps)		ASCOT					
			information in a centralized or distributed electronic environment. As such, the situation calls for a more information in a centralized or distributed electronic environment. As such, the situation calls for a more infersive afforts on mainstreaming functioned and management (KM) in Design 3. If is now high lines for the	Patent: Considered training modules and KPs		BPSU					
			consortium to conduct an inventory of knowledge resources from the different memory interface of the develop a database surfam or a knowledge resources from the different memory institutions and develop a database surfam or a knowledge portal which will see a sar a secretion of knowledge.	11 copyright of training modules and IECs		PRMSU					
			products, and information on AANR. Through this project, the consortium will also be able to establish a Knowledge Caf® (K-Caf®) that will serve as a platform to bring people together where knowledge	Product: Produced inventory of knowledge resources, prepared and implemented a communication		TAU PLGU Aurora					
			sharing and learning could take place. This project will also be utilizing traditional and digital media for technology promotion. With this, it is expected that the regional knowledge hub will be strengthened to	plan, and established and maintained the e-library 1 reg.~, I inventory of knowledge resources		PLGU Bataan PLGU Bulacan					
			which knowledge and learning resources and information coming from the different R&D institutions, SUCs, and PLGUs in Central Luzon will be made available and accessible for public	1 reg,-,l.comm plan 1 reg,-,l.e-lib established/ enhanced		PLGU Nueva Ecija					
			consumption.	People and Services		PLGU Zambales PLGU Tarlac					
				1 reg,¬,i comm plan and inventory of knowledge resources workshops 1 reg,¬,i tech promotion mentorship		PhilRice PhilMech					
				Trained 22 (11 CMIs x 2 pax) CMI staff		PCC DA-ATL3					
				Assisted 11 CMIs in KM services 11 CMIs participated to content build up of RTMS		DOST Region 3					
				Places and Partnerships		DA Region 3					
				1 K-Caff® with CLAARRDEC as main hub and 6 K-Caff®s in the from the SUCs							
				Policy:							
Regional Agri-Aqua Innovation System Enhancement (RAISE) Program in Central	Project 5. National Agri-Aqua Technology Business Incubation (ATBI) Networking and Capacity Building	Integrity of the environment and climate change adaptation and	The activities of 22 Agri-Aqua Technology Business Incubators (ATBIs) conspire to create an enabling ecosystem for local innovations on a national level. Hence, continuous support must be extended to	Publication: 1 training report on national ATBI MC	Central Luzon State University (CLSU)	Target Beneficiaries	01-Oct-23	30-Sep-2	ONGOING	6,855,944	4,072,972.00
Luzon	through the RAISE Program	mitigation	them by DOSTPCAARRD who shall likewise recognize an consider their individual strengths and needs including the uniqueness of their incubatees/acceleratees. Significant amounts of public funds have	1 AI BI MC of Training Module 1 compendium of spin-off incubatees prepared							
			been allocated by DUS I-PLAVKRU to the establishment or ALBIS in the country. Hence, it is imperative to ascertain that the results of investment of government resources are maximized. Complementary to the antichthemate of 20 Ani Aver. This ensure the anticht the amplitude antication and antichter and the antichter antichter antichter antichter and the antichter a	control table book on ALBLIN the Philippines developed semi-annual report and 1 annual report /prepared and submitted per year terminal report and a submitted							
			documentation of the current state of the ATBI ecosystem in the national landscape resulting from the implementation of the current state of the ATBI ecosystem in the national landscape resulting from the implementation of the current state of the ATBI ecosystem in the national landscape resulting from the term langer that the term of term of term of the term of term o	Potent-		Target Beneficiaries					
			based and calibrated support to these facilities.	Copyright of Training Module At least 3 publications for copyright filed							
				Product:		Benefits from the Project					
				1 Consolidated national report 1 national ATBI master class conducted and attended by ATBI management and staff per							
				year 10 CMIs trained/attended the national ATBI MC 1 actional are formers on ATBI and when all ATBIs attracted by all ATBIs attracted by		(1) State Universities and Colleges (SLICs)					
				and partners per year 1 incubate summit (with pitching activity) conducted per year; attended by an Arbis, staxenorders 1 incubate summit (with pitching activity) conducted per year; attended by incubatees/		(1) out official and conciges (0005)					
				acceleratees from all ATBIs, stakeholders and partners Assistance on crafting Regional ATBI Operations Manual		(1) Enhancement/formulation of effective incubation					
				1 pre-terminal and 1 terminal review conducted in Year 2		(2) More inclusive and responsive ATBI services					
				People and Services Coordinate and mentoring of 25 ATBIs		(3)Increased utilization rates of ATBI facilities, and machines and equipment					
				Mentoring of new AI Bis Coordinated participation of 25 CMIs on national ATBI MC		(4) Increased number of technologies transferred					
				Assisted 25 CMIs in ALBI services At least 2 webinars for the general public as promotion of the program conducted							
				At least 1 site/virtual visit to ATBIs conducted per year							
				PLACES AND PARTNERSHIPS 2 partnerships agreement with Business/Trade Institutions							
Regional Agri-Aqua Innovation System	Project 1. Regional Intellectual Property and	Integrity of the environment and	The Regional Agri-Aqua Innovation System Enhancement (RAISE) Program is a mirror-image of the DPITC in the Regions. It serves as a one-stop-information service shop and convergence hub for	PUBLICATION 3 Regional Training Reports (1 consolidated training report of all the CMI participants	Bohol Island State University (BISU)	The target beneficiaries of this project are the IP	01-Oct-23	30-Sep-2	ONGOING	5,093,952	1,134,988.00
Visayas	Central Visayas through the RAISE program	mitigation	technology generators and users. A platform to package, promote, and commercialize S&T creations to enhance the innovation ecosystem in the AANR sector. The program is centered on Intellectual Property	who attended to Intellectual Property Master Class (IPMC); 1 training report on regional IP Audit & Inventory Workshop; 1 training report on regional echo		technology generators involved in IP management					
			(IP) and technology transfer mechanisms. The program has four (4) project components: Project 1. Regional Intellectual Property and Technology Business Management (IPTBM) in Central Visayas	IPMC)		teaching and non-teaching staff and university					
			Establishment of Regional Agri-business Hub (ABH) in Central Visayas through the RAISE program	1 Regional list of Priority R&D commodity prepared and updated		istudents.					
			rocuses on agrousiness enterprise management; Project 3. Regional Agri-Aqua Technology Business Incubator (ATBI) in Central Visayas through the RAISE program which centers on technology inventory,	Kegional technology and IP inventory prepared and updated Kegional Sustainability Plan Consolidated regional seast (IPs find, task appropriation), etc.)							
			Knowledge Management (KM) Hub in Central Visayas through the RAISE program which will spearhead the knowledge management (KM) Hub in Central Visayas through the RAISE program which will spearhead the knowledge management adviktions and technology normation of all Consortium Manabar Institutions	PEOPLE & SERVICES							
			(CMIs). The RAISE Program in Region VII involves five (6) CMIs of the Central Visayas Agriculture, Aquatic and Natural Resources Research and Development Consortium (CVARRDEC). The program	Coordinated & hosted 1 national ABMS (last module & graduation) Coordinated participation of 5 CMIs on national IPMC							
			will implement a mentor-mentee-regional approach to further enhance the innovation ecosystem in the agriculture, aquatic, and natural resources sectors.	10 CMI Staff trained/attended the national IPMC 1 Regional IP Audit & Inventory Workshop conducted							
				Trained 10 CMI Staff on IP Audit & Inventory Workshop 1 Regional Policy/Tech Transfer Protocol review conducted							
				Trained 10 CMI Staff on Policy/TTP Review 1 Regionalecho IPMC conducted Trained All PMC conducted							
				Iraned 20 CMI Statt on echo IPMC Participate in the content build-up & updating of RAISE RTMS							
				regional tech/business pitch day conducted regional promotional activity conducted (e.g. exhibits, bootcamps, IP caravan, etc.) Desticination to the Netronal Dirb. East							
				PLACES & PARTNERSHIPS							
				5 CMIs assisted in the commercialization of technologies 1 RAISE Advisory Council created							

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
Regional Agri-Aguia Hinovation System Enhancement (RAISE) Program in Central Visayas	Project II.5 Establishment of the Intellectual Propert and Technology bunkness Management (PTBM) in Cebu Institute of Technology-University (CIT-U) through the RAISE program	Integripty of the environment and climate change adaptation and mitigation	ciTU bitwes to become one of the Philippiner' to universities by 2025 Brough guilding barners tower docurses in the universe and lives, promoting creativity and hordering generation, advancing community development, and adapting to a rapidly changing workt. A 2015, the CiT-U bitterictual Physer (Network) and an experimentary of the second s	FABLEATIONDE ECAPTENTE PAcipitations (IM Asnap Restr drip) Operpitti (ECCPRODUCTS PACK Astard PK9N person 11 = Asnap, technologies mentary updated Intensity of Incontegies remains propertial rule updated (CIL) of PTM Assampling and the astard person of the assampling and the astard remains and the astard person of the assampling and the astard Technology Commercialised/PCDFL as any. EEM/CES2 CIL1 and Tamore In national PACK CIL1 and Technology with pro-commonization remover. The homology start technology Commercialised/PCDFL astart, EEM/CES2 CIL1 and Tamore In national PACK CIL1 and Technology with pro-commonization remover. The technology start technology CIL1 and attender segmand P hoto/Technology start and on early and exception of the content build-op AfTMEPLACES amp; and technology CIL1 and Technology technology transfer protocol revice CIL1 and attender segmand COMPRIMENT and the semantic CIL2 CIL2 and attender segmand COMPRIMENT and the semantic CIL2 CIL2 and attender segmand COMPRIMENT and the semantic CIL2 CIL2 and the Advance CIL2 and technology transfer protocol second technology transfer and attender technology transfer protocol segmand complexitions are well as mediation. Clean Point Starts of the to call memorization activities as well as mediation. Clean Point Semantic Restrict CIL2 CIL2 CIL2 CIL2 CIL2 CIL2 and technology transfer advance and technology transfer differs.	Cebu Institute of Technology- University (CIT-U)	The target baneficiaries of this project are the IP offices of each campus of the university, in particular, the technology generators involved in IP management and technology commercialization activities.	01-Oct-23	30-Sep-25	ONGOING	2,491,600	667,400.00
Regional Agri-Aqua Innovation System Enhancement (RAISE) Program in Central Visayas	Project 15. Establishment of the Intellectual Property and Technology Buniess Management (PTBM) in Cabu Technological University (CTU) through the RAISE program	Integrity of the environment and climate change adaptation and mitigation	Newsloy, the government sector, comparies, and hyper exiscillonal institutions (HEI) struggle to adapt to the farspace of schonzological involved multiple existing adaption in write scientific adapt to the farspace of schonzological involved multiple existing adaption in write scientific market. The adoption of an efficient systematical technology management systems in highly potential in these sections of HEI® boards in the production of highly adapt patientials productiheting one schonzolet and the schonzolet adaption of highly adapt patientials productiheting the schonzolet technological University (UCU). This State University of afferent government social and HEI like Government (PTBM) would gravity deviate the productivity of afferent government social and HEI like Government (PTBM) would gravity deviate the productivity of afferent government social and HEI like Government (PTBM) would gravity deviate the productivity of afferent government social and HEI like Government (PTBM) monthly adaption of the productivity of afferent government social and apport in historical program management and schondoge Support Office (TDS) to produce porties social, CTU has established an innovation and Technology Support Office (TDS) to produce sports assisting with interrup agreements, after office height CTU faculty members and students to identify assisting with interrup agreements, after office height CTU faculty members and students to identify floating adaption and PTBM environments and barbon students to identify assisting with interrup agreements, after other height could be available and the advance of the height and the advance of the height could be available and advance and the height advance of the height could be assisting with interrup agreements, after other height could be advance of the height and the social office of the height could be advance of the height could be assisting with interrup agreements, and manage the commenzication of technology Business Management (IPTBM) operations i	GPY1Y121GalPULLCH10x5155Cc129X1E0155F PAppendons (M. Alemp, Estent any)233C Copyright (ECU129F00CL: 15) Shopendol 31 (Factor Stepse communication plan developed Aam; implemented 11 Their communication plan developed Aam; mightemethet Ti schoology alth area; mightemethet Their communication plan developed Aam; mightemethet Ti schoology alth area; SERVICES2 Colt audit transe in national PMC222 Cold and transect in national ABICS-y dir="fit" ayler:"the height: 1.2, meginheit PMC222 Cold and transect in national ABICS-y dir="fit" ayler:"the height: 1.2, meginheit PMC222 Cold and transect in national ABICS-y dir="fit" ayler:"the height: 1.2, meginheit PMC222 Cold and transect in national ABICS-y dir="fit" ayler:"the height: 1.2, meginheit PMC222 Cold and transect in national ABICS-y dir="fit" ayler:"the height: 1.2, meginheit PMC222 Cold and transect in national ABICS-y dir="fit" ayler:"the height: 1.2, meginheit PMC222 Cold and transect in national ABICS-y dir="fit" ayler:"the height: 1.2, meginheit PMC222 Cold add transect in national ABICS-y dir="fit" ayler:"the height: 1.2, meginheit PMC222 Cold add transect in national ABICS-y dir="fit" ayler:"the height: 1.2, meginheit PMC222 Cold add transect in national ABICS-y dir="fit" ayler:"the height: 1.2, meginheit PMC222 Cold add transect in national ABICS-y dir="fit" ayler:"the height: 1.2, meginheit PMC222 Cold add transect in national ABICS-y dir="fit" ayler:"the height: 1.2, meginheit PMC222 Cold add transect in national ABICS-y dir="fit" ayler:"the height: 1.2, meginheit PMC222 Cold add transect in national ABICS-y dir="fit" ayler:"the height: 1.2, meginheit PMC222 Cold add transect in national ABICS-y dir="fit" ayler:"the height: 1.2, meginheit PMC222 Cold add transect in national ABICS-y dir="fit" ayler:"the height: 1.2, meginheit PMC222 Cold add transect in national ABICS-y dir="fit" ayler:"the height: 1.2, meginheit PMC222 Cold add transect in national ABICS-y dir="fit" ayler:"the height: 1.2, meginheit PMC222 Cold add transect in nati	Cebu Technological University (CTU)	The target beneficiaries of this project are the IP offices of each champus of the university, in particular, the technology generators involved in IP management and technology commercialization eaching and using stateholders, community, accelling and using stateholders, community, and MSMEs.	01-Oct-23	30-Sep-25	ONGOING	2,491,600	572,900.00
Regional Agri-Aqua Innovation System Enhancement (RAISE) Program in Central Visayas	Project IC. Establishment of the Intellectual Property and Technology Buriness Management (IPTBM) in Holy Name University (HNU) through the RAISE program	Integrity of the environment and climate change adaptation and mitigation	Indry Name University recognizes the importance of protecting the intellectual rights of the employees, thus, in 2018, the Medical Parspert Medicy of the university are called and approved by the Board of Name (Name) and the Name (Name) and th	6PYYYDYSIGBURULATIONS IS ECX128/NTNYS IP Applications (M. Alamy, Fasteri any)2030 Copyright (ECX128/PADUCH 5R Applications) (M. Alamy, Fasteri any)2030 Copyright (ECX128/PADUCH 5R Applications) (A. Alamy, Fasteri any)2030 Copyright (ECX128/PADUCH 5R Applications) (A. Alamy, Fasteri any)2030 Copyright (A. Alamy, Inplaneted 11 Horology with pre-comm report 11 Stachology) (A. Alamy, Inplaneted 11 Horology with pre-comm port 11 Stachology) (A. Alamy, Inplaneted 11 Horology with pre-comm port 11 Stachology) (A. Alamy, Inplaneted 11 Horology with pre-comm port 11 Stachology Exhert 12 France (Alamy) (A. Alamy, Inplaneted 11 Horology BERVICES2 CM and Tamer in national PAC222 CM and Tained in national AdMC222 Indext: 0.1pt, margin-kgo-tgb, margi (Alamy, Alamy) (Alamy, Alamy) (Alamy, Alamy) (Alamy, Alamy) (Alamy, Alamy) (Alamy, Alamy, Alamy, Alamy, Alamy, Alamy) (Alamy, Alamy) (Alamy, Alamy) (Alamy, Alamy, Alamy, Alamy, Alamy, Alamy) (Alamy, Alamy) (Alamy, Alamy, Alam	Holy Name University (HNU)	The target beneficiaries of this project are the technology enantations involved in the management and technology commercialization activities; teaching and non-teaching staff and university students.	01-Oct-23	30-Sep-25	ONGOING	2,491,600	597,900.00
Regional Agri-Agua Innovation System Enhancement (RAISE) Program in Central Visayas	Project ID: Establishment of the Intellectual Propert and Technology Bunnies Management (PTBM) in Negros Oriental State University (NORSU) through the RAISE Program	Integrity of the environment and climate change adaptation and mitigation	The Respons Chenkal Sale Likewaniki (NCRSU) is a higher education institution that recognizes is displands to already end to exclusive protocols of laceby and education institution that recognizes is displands to already and the sole of the sol	BYYYYTEREPUBLICATIONS II SEC 129/XTDYS IP Applications (IM Amp, Estent any)2030 Copyright (EC) (2019/XDC). The Shepmich Si in San isotopic annuncation plan developed Amp, implemented 11 Test communication plan developed Amp, implemental in Unichology alth across mice posi 11 Sectoring planticati US PMC222 CM add Tamoel in national ABMS2rg dier "th" eyter" Ine-height 1.2; magin-left - 0.1pt, Lebindent - 0.1pt	Negras Oriental State University (NorSU)	The target beneficiaries of this project are the IP offices of each campus of the university, in particular, the technology generators involved in IP activates, including stateholders, community, teaching and non-teaching staff, university students, and MSMEs.	01-Oct-23	30-Sep-25	ONGOING	2,491,600	572,900.00
Regional Agri-Agua Innovation System Enhancement (RAISE) Program in Central Vsayas	Project 2. Establishment of Regional Agri-business Hub (ABH) in Central Viseyes through the RAISE program	Integrity of the environment and climate change adaptation and mitigation	The Ramp D Initiates in AMR commotives an almost established in the region due to the presence research institutions such as the BSU CUIT CTU MORSU. Whull not durin institutions. However, many of the research outputs are not taskly translated to bring impact to society due to serveral constraints. Some of these are the reading for commercialization rates, and awareness of the technology serverators allow (are common statistication and commercialization rates, and awareness of technology serverators allow (are common statistication and commercialization rates, and awareness of technology serverators allow (are common statistication and commercialization rates), the market reasolite to create and product. However, in order to more forwarding the response to the sustainable development goal or innovation. Through the project is nine with the goal of the PANDES (Philippine Tech Techner Ac) to put the Ramp. Do typic for commercialization and the response to sustainable development goal or innovation. Through the project researchere will be capacitate in response to index the output of the provide all were commercialized and the provide the technologita. The sustainable development goal of innovation. Through the provide the commercialization and the compared will also intige the ANR bechnologitas with prospective invectors and end users is give them better options.	DeVYTV2EdaR400LCATD0658 Degened Training Report USPR0DUCT10 Pre- tormeroitablican series Electricity with Names plant2 behonding with NameSity study Electrology with market study's technology with autualized technology with an Electricity Considerate region approximate plant series and ERYTUE200 Constituent participation of 5 CMe Asamy, 10 CM personnel on national conducted ITTamed 20 Add Statil on ABSC and Electricity 20 Add Statil Cond MAMEs or potential appresents conducted ITTamed 10 NoKEs on appresentable (Torticity and Peter Test-opan abjectToni state: 10pt, ford-family, Anti, color: pp(0, 0, 0); ba	Bohol Island State University (BISU)	The output of this project is beneficial to all relativation in the applications aquatic and natural resources (ANR) commodilies. Specifically, the IEC materials and the training/pitching activities that will be conducted, will be useful for researchers, innovators, entropeneurs, LGUs, research institutions, and venture capitalists.	01-Oct-23	30-Sep-25	ONGOING	2,616,000	649,000.00
Regional Agri-Agua hinovation System Enhancement (RAISE) Program in Central Visayas	Project 3.7 Regional Agri-Aqua Technology Business Incubator (ATB) in Central Visayas through the RAISE Program	Hegging of the environment an climate change adaptation and mitigation	Apriculture and aquaculture assimilation could increase the familing system economically, with continuous innovation parking a via illumation (colifier ef al., 2017). The business inclusion area to advancement (Binsanad et al., 2019), Initiating an integratory system for apri-quanculture could enderse essential reads, such as food, efficient use of viail resources, and political control (Fahrman et al., 2018), However, Apri-quanculture faces a growing origing of its environmental and social enterprises and an environmental enderse and an environmental and social enderse essential enderse descent and environmental and social enderse essential enderse descent and environmental and social enderse essential enderse descent and the environmental and social enderse essential enderse descent and environmental enderse enderse enderse enderse enderse enderse essential enderse descent and the enderse enderse enderse enderse enderse enderse enderse processes has been recognized (Bainsana et et al., 2018), Endershoed, promote incustometerse promote technological uniterative (Citt), the Vasyase and Michanaria targets etate university in the Philippies, pursual for encounts superiority, califications with the environments in the dynamic constructure isotenesses conceptate on technology larget for homogeneously and and contribution to local constructure isotenesses conceptates on technological larget (Citt), the Inserges and theorem is that dynamic communities, the equation of Citt) as a exceeding exceeding environment (Bain same environment), and the communities is the equation of SUC smootaban and bedronological larget (Citt) as a statisticher between Agrin-quanculture and acateria definess the challenges for competitive leaders of the environment and SUC smootaban and bedronological larget (Citt) as the environment and statistication and bedronological and environment and the environme	Component A. Regional ATBIB [®] /V17/07/APURUCHATOR Regional Training Reports 121 Regional ATBIB [®] /V17/07/APURUCHATOR Regional ATBIB Indexes Plan carbet 111 Regional ATBIB [®] /V17/07/APURUCHATOR Regional ATBIB Indexes Plan carbet 111 ATBIB [®] /V17/07/APURUCHATOR Planting Planting Planting Planting Planting Planting ATBIB [®] /V17/07/APURUCHATOR Planting Planting Planting Planting Planting Compositional With Planting Planting Planting Planting Planting Planting Compositional With Planting Planting Planting Planting Planting Planting Compositional With Planting Planting Planting Planting Planting Planting Planting Planting Planting Planting Planting Planting Planting Planting Planting Planting With 0.75pt; border-del-eigle: solid; border-color:rgb(0, 0, 0; border-rgbt	Cabu Technological University (CTU)	The beneficiaries will include those who are willing to adopt involution in the AANR sector such as the technology adopters, generators, micro and small enterprises, cooperatives, associations, and other interested individuals/groups.	01-Oct-23	30-Sep-25	ONGOING	4,825,640	1,351,932.00

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
Regional Agri-Aqua Innovation System Exhancement (RAISE) Program in Central Visayas	Project 32, Establishment of hen, Agri-Aqua Tachology Biomass Scotabler In Bohlishan State University (BISU) through the RAISE Program	Integration of the environment and distants change adaptation and mitigation	Technology, Bunness hexabation (101) is decorded as a foldity that houses statuups and offers stateme eventopment annuals. This can boost regional accountic development by fostering entrepreseuring, job creation, and public-prese protein-the. In this TBL status, status para houses and is the includes, which also differ and public-prese protein-the line. TBL status, status para houses and is the includes public boost fordings as well as the acquisition and application of doubling-edge/tate-of-the-atte-ford model encourage houses and application of doubling-edge/tate-of-the-atte-ford model encourage houses and application of doubling-edge/tate-of-the-atte-ford model encourage houses and the commercicitation of established technologies, particularly house mechanisms. This fasters the apparetion of the commercicitation of established technologies, particularly house mechanisms. This fasters the appreciation of development projects. The series of all bunchess includes in the commercicitation of established technologies, particularly house mechanisms. This fasters the appreciation of the commercicitation of established technologies, particularly house mechanisms has fasters the expression of defondary/bosone bunchesses. TBis is the Philippines and bunchess includes in the commercicitation of the tablished technologies, particularly house bunchess includes in the commercicitation of the tablished technologies, particularly house bunchess includes in the commercicitation of the statistical technology technologies, and the ford bunchess includes in the commercicitation of the tablished technologies, particularly house the technologies generated through research and development will be transferred to potential adopters.	Althouter: Althouter: I AllB upractions manual meeted I AllB upractions manual meeted I AllB upractions more and meeted I AllB upractions more and meeted I Composition of the AllB enviroped I composition of the AllB enviroped	Bohot Island State University (BISU)	The beneficiaries will include those who are willing to adopt innovation in the ANN's access runch as the technology adopters, generators, micro and small enterprises, cooperatives, associations, and other interested individuals/groups.	01-0ct-23	30-Sep-25	ONGOING	4,732,992	965,748.00
Hegonal Agri-Aga Innovation System Enhancement (RASE) Program in Central Visiyas	Project 2. Establishment of Regional Knowledge Nanogement Hab in Central Visayas through the FAISE Program	Högfyr of the environment and dimite change adaptation and mögetion	denotingly a way could be solid action tegrin of duct times, and noting that its meet it area y researcher and funding source to benefity such technology. With the inglementation of communication promotional strategies for sharing and technology. With the inglementation of communication promotional strategies for sharing and technology. With the inglementation of communication promotional strategies for sharing and technology. With the inglementation of communication of the instance of the constraint with the accompliable. The communication and other sharing the strategies are also also also also also also also also	per et vois media. Bublic fun registra in languard (PARTENT) Per periodiante 115 composition files of periodicional metantia developacity/2014 (PARTENT) Periodical Marcines (PARTENT) Resources 111 Rep 11 Committee persone & updates 111 Committee (CAR Committee Herindrog)-based Eric metantias developacity/2014 (EU update)/2013 (PARTENT) Herindrog)-based Eric metantias developacity/2014 (EU update)/2013 (PARTENT) Herindrog)-based Eric metantias developacity (EU update)/2014 (PARTENT) Herindrog)-based Eri	Ceeu Institute of Technology- University (CIT-U)	The output of the project is beneficial to all to natural measures (AVMR) commonlies. Specifically, the IEC materials and the training/tictiong activities that will be conducted, will be useful for researchers, innovators, entropreneurs, LGUs, research institutions, and verture capitalists.	01-061-23	30-Sep-25	ongoing	2,498,600	644,700.00
Regional Agri-Aqua Innovation System Enhancement (RAISE) Program in liccos Region	Project IE Strengthening the P-TBM Office in locos Sur Polyachnic State College through the RAISE Program	Heapty of the environment and climate change adaptation and mitigation	boos Bay Polytechnic State Callege as one of the Higher Education Institution (HE) of the provine which has data the calascene in 1960 by Yuke P Regulack AT 400 bandred by Cong. Etc. D. Sergeron as in full apport to the provincie whon, Research as ore of the founded function of focus Bay Conduct and undergo wince subscreentating to numerous ensemble on balance of the cong. Sergeron and the service of the provincie of the service of the founded function of the const conduct and undergo wince subscreentating to numerous ensemble on balance of the conglement. Loss and materials have been created and developed is this connection, the need to established and monophists the intellectual property of the creations and developers is deemed important.	Publication: M least 1 training module - 1 EC - 2 EC -	Itocos Sur Polytechnic State College (ISPSC)	Faculty and fullime researchers of ISPSC will be the major beneficiary of the program and also for the external stakeholders of the College.	01-Jan-22	30-Jun-24	COMPLETED	1,600,000	338,856.76
REGIONAL AGRIAQUA INNOVATION SYSTEM ENHANCEMENT (RAISIN PROGRAM IN NORTHERN MINDANAO	Project 1. Ragional Intellectual Property And Technology Bulansk Banagemend (PIBM) In Northern Mindanao Through The RAISE Program	Integrity of the environment and climate change adaptation and mitigation	Component A. Establishing Regional PTIM/The Regional PTIM. A project component of the RABE regionant is more classificity PTIM and program to boostation that projects component of the RABE conducting significant and aquiculture research projects with grant profession (see Call) is bother USTP at Coverts (USTP-C) in Means Oriental. These too CMB are closen because they are achien conducting significant and aquiculture research projects with grant potential for P proceedings of the Call and the properties of the Patienta Anades from PCPM. For the exceeding reformance in P processing and componentiations. These the CABs has been in the P Management business for low or none years. They are both component of the Patienta Anades from PCPM. For the exceedent performance in P processing and component of the Patient Anades from PCPM. For the exceedent the Research and the re- formance of the Call and beam of the P Management business for low or none years. They are both and the exceeding component E behaviory GAM PTIM Through Reside Program the Research and the Research and the exceeding component E behaviory GAM PTIM Through Research and the Research and the relation of CAU in the DOST-PCAARBO PTIM Program capacitated the CAU IP percented to manage CAUPs enhanced capabilities of the CAUP Percented. The Program capacitated the CAU PP Percent and the campacitated coefficience of Registration. In addition. The P percenter of the CAU PP Percent and the component is and the provide percented and the patient of the CAU Percented to the component of the CAUP Percenter of the percenter of the percenter of the percenter of the CAUP Percenter of the Patient of the commentatization of four technologies through the establishment of space of companies. To infinite commentatization to be providing operation the too classificated the commentatization of the percenter o	Expected Outputs of Compound Margins 1: Regional (PTIMM*170104,PUBLCANDIN) consolidated uning poor of all to CG approach was attacted RAC1 training appro2 Washoop 19ATEN1COopengid of training specific PRODUCT Reg ^{mil} last of Prohity Margins, D Avasiconsolity program and upper 2019 (PROUCT Reg ^{mil} last of Prohity) Regional Development of training specific PRODUCT Reg ^{mil} last of Prohity CB Statemarking pairs, salar CB Mar dynamic and a marginal program (Prohite) CB Statemarking pairs, salar CB Mar dynamics, clip State Development (PC Reg Cardinal Program and Upper Cardinal Program (PC Reg Cardinal Ingular regori (PE) Reg Last Cardinal Program (PC Reg Cardinal Ingular regori (PE) Reg Last Cardinal Program (PC Reg Cardinal Ingular regori (PE) Reg Last Cardinal Program (PC Reg Cardinal Ingular regori (PE) Reg Last Cardinal Program (PC Reg Cardinal Ingular regori (PE) Reg Last Cardinal Program (PC Reg Cardinal Ingular regori (PE) Reg Last Cardinal Program (PC Reg Cardinal Ingular regori (PE) Reg Last Cardinal Program (PC Reg Cardinal Ingular regori (PE) Reg Last Cardinal Program (PC Reg Cardinal Ingular regori (PE) Reg Last Cardinal Program (PC Reg Cardinal Ingular regori (PE) Reg Last Cardinal Program (PC) Reg Cardinal Ingular regori (PE) Reg Last Cardinal Ingular Reg Cardinal Program (PC) Reg Cardinal Ingular regori (PE) Reg Last Cardinal Ingular Reg Cardinal Ingular Reg Cardinal Ingular Reg Cardinal Program (PC) Reg Cardinal Ingular Reg Cardinal Ingular Reg Cardinal Program (PC) Reg Cardinal Ingular Reg Cardinal Ingular Reg Cardinal Ingular Reg Cardinal Ingular Reg Cardinal Program (PC) Reg Cardinal Ingular Reg Card	Central Mindanao University (CMU)	Target Beneficiaries CMM/Technology Transfer OfficerenXME-KEnfergeneurs/Includees/Farmers, Inventory/Technology Generations/FacultyResearchers/Inventory Generations/FacultyResearchers/Inventory R&D & S&T Partners Thesis advisers and students preparing thesis	01-Oct-23	30-Sep-25	ONGOING	5,000,000	2,447,436.80
IREGIONAL AGRI-AGULA MNOVATION SYSTEM EN-NACOMENT (RAISE) PROGRAM IN NORTHERN MINDANAO	Project II. & Enhancement OT The Inhibitional Propert And Technology business Managament (IPTBM) in Mindanao State University- ligan Institute Of Technology (MSU-III) Through The RAISE Program	Helpflyd fhe environnent an climate change adaptation and mitigation	The project locures on the sublandels Internification of the Intellectual Property and Technology Backiness Management (PTMM) that innovation BDITO"s and in provide the optimum enhancement for averents, innovators and installated in statistics to interruption the capacities of Medataso State and the state of the state of the statistics of the state of the state of Medataso State behaviory commensus and the state of the state of the state of the state of Medataso State activation of the state of the state of the state of the state of the state of the state of the state of	Palcitation: A franct SIECs for SUCAPDI technologies/Barter: A franct 10 patient applications Corpyrish of IC-Movies.10 Poir And Search (PAS) Reports 1 P interview of matured technologies 1 P interview of technologies 1 Schnology Commonitation (Participation) 1 Schnology Commonitation (Participation) 2 OM add Tamede In P Manification 2 OM add Tamede In PMA/Press Trans Potocol Review 2 Pathopish to control and up of RTMS 2 Pathopish to control and up of RTMS 2 Pathopish to control and up of RTMS 2 Information 2 Review 12 Pathopism Trans Potocol Review 2 Fathopish to control and up of RTMS 2 Control and anotoch Regin P Manification 2 Review 12 Pathopish to control and up of RTMS 2 Control and anotoch Regin P Manification 2 Review 12 Pathopish to control and up of RTMS 2 Control and anotoch Regin P Manification 2 Review 12 Pathopish to control and up of RTMS 2 Control and anotoch Regin P Manification 2 Review 12 Pathopish to control Review 12 Pathopish to control Review 12 Pathopish to control and up of RTMS 2 Control and anotoch Regin P Manification 2 Review 12 Pathopish to control and up of RTMS 2 Control and anotoch Regin P Manification 2 Review 12 Pathopish to control Review 12 Pathopish to control Review 12 Pathopish to control and up of RTMS 2 Control and anotoch Review 12 Pathopish to control Review 12 Pathop	Mindranes State University - lingan Institute of Technology (MSU-IIT)	Target Beneficiaries: CMU-IPTBM Personnel Faculty researchers Thesis advises Statistic design of the statistic projects Local entreprenears	01-Oct-23	30-Sep-25	ONGOING	2,500,000	1,190,000.00

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
REGIONAL AGRIAQUA MNOVATION SYSTEM EN-MACKENT (FAGA SYSTEM EN-MACKENT (FAGA PROGRAM IN NORTHERN MINDANAO	Project IB, Establishment (J) The Intellactual Property And Technology Buriness Management (IPTBM) in Mindanao State University At Naawan (MSUN) Through The RAISE Program	Integrity of the environment and climate change adaptation and mitigation	The PTBM (4 MSU a Nasawa that aim to address the hollectual property concerns of the university, periodiarly in folding copyright and pacient registrations, receiving disclosures assisting patent applications, and safeguarding intellectual property-related agreements. Engaging activities shall also be ablated sincuple for conclused of selation activities where industry and potential invertorisciteristis met to level off feath-noising reads between the user and the oracion and the planned industry immersion solutions in it.	Expected Occupus (#93)-Bubication – 3 promotional ECO-Patentineticatial Property – 5 P Approximate, Mark and Patent (why) – Cosynthe (ECO)-Potication From Art Barrich Reports – 11 Pé à technologia in winner y updated – 1 inventory of knowledge resources programed and updated – 1 Cold commendations plan developed and implemented – 1 Technology Commendations – 20 Mark (#96, ~ 20 Mark Barriel and Mark Cold Cold Strategies – 20 Mark (#96, ~ 20 Mark Barriel and and Strategies – 20 Mark Barriel a	Mndanao State University (MSU- Naaxean)	Traget Bendrisarias:Students, Fisculty, Staff, Slaveholden (Farmers, Fishermen, other partner organizations)	01-Oct-23	30-Sep-25	ONGOING	2,500,000	1,260,000.00
TEGIONAL AGRI-AQUA NNOVATION SYSTEM EN-NACKEMPT (RAISE) PROGRAM IN NORTHERN MINDANAO	Project IC. Establishment Of The Intellectual Property And Technology Business Management (IPTBM) In The University Of Science And Technology Of Science And Custemen Philippines Claveria Campus (USTP-C) Through The RAISE Program	Integity of the environment and climate change adoptation and mitigation	Strengthening the capacity of LISP**s Innovation and Technology Statutes Office (TISO) and Technology Monitons and Commendization Office (TPC) of the Intellectual Property and Technology Students Management (IP-TBM) operations to be an operational one-stop-shop for momentary states of technologies generative present to be an operational one-stop shop for memory states of technologies generative present present and technologies of technologies memory states of technologies generative present shop of technologies and technologies methods and property states the backmene crucial in foreign (movaling and capacity ingle) advanceing memory attained to be invest their lima may derecurs and in developing new and unjoing elses. The protection granted under head effects the backmene provides are mesh of stellagurable the full state memory attained to readers. This backmene provides are mesh of stellagurable the full state the researchers and encoders of the university while also fostering an environment where intellectual property can be shared and exchanged freely.	Palcitation: A tend 2 promotional ECs for technologiesPatter: A tend 4 P (patent and utility mode only applicationPotuct: 1 therms of IP assets At least 1 technology CommercializedPregiet Enchology Commercialized Pregiet At least 1 technology and technology promotion combined has P Master Class and Enchology Commercialized Ministration Series At least 3 PIPM still attended a local P workshop/Ec, Commercialization with PTBM stalf at immeripage At least 1 inducions generate and technology promotion conducted Pace. 1 PIPM has an experiment executed At least 1 advances appreement executed At least 1 advances presented executed At least 1 advances presented executed At least 1 advances reviewed and technology Immeries Presented At least 1 advances reviewed and technology Immeries Presented I Section 1 Bechnology Immeries Presented and technology Immeries Presented I Section 1 Bechnology Immeries Presented and technology I	University of Science and Technology of Southern Philopine Claveria Campus (USTP-C)	Target beneficiaries are: Farmers, SMEs, and other stakeholders.	01-Oct-23	30-Sep-25	ONGOING	2,500,000	1,338,724.00
TEGIONAL AGRIAQUA NNOVATION SYSTEM EN-NACKENT (RAISE) PROGRAM IN NORTHERN MINDANAO	Project 2. Establishment Of Regional Agri-business Hub (ABH) in Northern Mindanao Through The RAISE Program	Integrity of the environment and climate change adaptation and mitigation	The Regional Agribusiness Nuk / RG(BHub) project, one of the projects under the Regional Agri-Jouga homodan System Homomeni (VABE/System), in designed to support the development of vable agribusiness interprises hub in the Selected Conscritution Member Institution that will provide business technology stander and commendiatable. The Assistives will be proper technology temperatives plan and technology stander and commendiatable. The Assistives will be proper technology temperative plan and teaching standers and commendiatable. The Assistives will be proper technology temperative plan and teaching standers and commendiatable. The Assistives will be proper temperative to assistive teaching and temperative temperative and temperature and temperature to assist that were not commendiatable to engine the adults will develop an enabling environment for SUGE Regional agrituations team and provides to maching environment for agriphosiness enterprise or adults and provides the temperature temperature and provides the regional agrituations team of the adults for capability to holdings comment of temperature and evelopment of training designs and muldies for capability holding programs and provides commendiatations envirous to the mentees which include the agrituations coaching and methoding programs as well as commendiatable processing services for technology transferred .	Publication: Three (1) Regional trainings Process documentation on the establishment of Agribusiness Hub Patent: xxxxProduct: 10 Pre-commencialized services Technology with business plan Technology with business plan Technology with business plan	Central Mindanao University (CMU)	The target bandidaries of this project are the institutional Reacher Raoly and Students and RGMO Project Leaders whose research work are already ready for pre-commercialization.	01-Oct-23	30-Sep-25	ONGOING	2,499,800	1,169,900.00
REGIONAL AGRI-AQUA NINOVATION SYSTEM EN-NAKCEMENT (RAUE) PROGRAM IN NORTHERN MINDANAO	Project 3. Regional Agri-Aqua Technology Business Incudento (ATB) in Northern Mindanao Through The RAISE Program	Integrity of the environment and climate change adaptation and mitigation	The regional ATBI will be established to support NOXA-ARRPD CMI® and ATBIs in the transfer of supportants and support scores in the region of ATBI will be supergive accidence of the processor accidence of the metric one (1) unkneally from the consortial member institutions (CMI) of NOXA-ARRPD for its ATBI and the accidence of the commercialization of Applicular the transfer and the commercialization of the accidence of the commercialization of research generated technologies of CAU. Since the business support services for the commercialization of research-generated technologies of CAU. The business support services for the commercialization of research-generated technologies of CAU. The business support services for the commercialization of research-generated technologies of CAU. The business support services for the commercialization of research-generated technologies of CAU. The project ¹⁰ is negative to account development through the satisfiest and accounts even of them to the composition of support to account development through the satisfiest and accounts even of them to the composition of compositions that the CAU project team will reglement. Both composities provide an exacting environment for technology commercialization.	Publication: PUBLICATION 1 Regional Training Report 1 Regional ATBI Operations Manual crafted 1 Regional ATBI Ourriculum/Service Prepared/Enhanced Al least 2 IEC or promotional materials for Regional ATBI developed Al least 1 Encompositional materials for Regional ATBI developed Al least 1 Encompositional materials for Regional ATBI developed Al least 1 Encompositional materials for Insulatives developed	Central Mindanao University (CMU)	The target beneficiaries of this project are the technology adoptions, bechnology beneficiario, Agri- aqua start-type, cooperatives, associations among others.	01-Oct-23	30-Sep-25	ONGOING	6,700,000	3,582,500.00
IEGGIONAL AGRIAQUA NINOVATION SYSTEM (H-NACKENT (FAGA SYSTEM (H-NACKENT (FAGA PROGRAM IN NORTHERN MINDANAO	Project 2A, Establishment (Of The Agri-Agaa Technology Business Inculator in Mindanao Stute University At Naawan (MSUN) Through The RAISE Program	Integrity of the environment and climate change adaptation and mitigation	The agroundless and aquescilure sectors are imported combibilitys to the eccourty of the country However, these sectors lose numerous obligges like clinete sharps, lineting resources, and markle compatibility. To address these datalonges, Agriaqua Technology Business houbdors are established to be address and an experimented for entreprises and involutes to a lowedpa, refers, and competing development of schoologies, private resources and mentioning to incubates, and link them to different abaholders like industry professionals, potential investors, researchers, etc.	Publications I ATBI business plan revised as needed I ATBI persitions manual revised as needed I ATBI operations manual revised as needed I ATBI operations manual revised as needed A I teat 3 basic curricula revised of developed AI teat 3 basic curricula revised of developed	Mindanao Slate University (MSU- Naawan)	The target bandficiaries of this project are the men and women of Okar and technology generation, aspirant private entrepreneurs, and technology adaptors.	01-Oct-23	30-Sep-25	ONGOING	3,957,280	1,964,330.00

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
REGIORAL AGRIAQUA NNOVATION SYSTEM ENHANCEMENT (RAISE) PROGRAM IN NORTHERN MINDANAO	Project 4. Establishment Of Regional Knowledge Management (KN) Hub in Northern Mindanao Through The RAISE Program	Istagriy of the environment and climate change adaptation and miligation	Inconception management is assuming for success and a demanded by all tablendem. It movies a does connection to opportain strategy, however, and end of the submoledge readers and two involvedge readers, and processes, and ensuing projects are receptived and supported by organizational members. To ensuing the submole readers are receptived and supported by organization members in the submole readers are receptived and supported by an ensuing the submole domandin exchange and destinations are well as the tablegeing texticum of covaders types. The SECI model illustrates how people learn from others through socialization, externalization, combination, and internalization.	Publication: dPa Expected Outputs Vear 1 Year 2 Publications RM System Manual/User Guide 1 1 Patent:	Central Mindanao University (CMU)	All individuals involved in agriculturel, equaculture, and natural resources (ANR) commodies will benefit from the project results. In particular, LCUs, research insituble, entrepreneurs, scientids, and venture investors will benefit from the KMS.	01-Oct-23	30-Sep-24	ONGOING	2,500,000	1.205.040.00
Regional Agri-Agua Kinoxidino System Enhancemart (KASE) Program in SOCCSKSARGEN	Project I. Regional Intellectual Property and Technology Bearlese Management (PTBM) in SOCCSKSARGEN through the RAISE Program	Integrity of the environment and climate charge adaptation and mitigation	The Report Application Reported Splaten Enhancement is Report 12 (RMSE' 12) Program under Report 12 with size should apply the report of the splate the report of the size and provide the report of the size should appear (P) with the report of the size should appear (P) with the report of the size should appear (P) and the report of the size should appear (P) and the report of the size should be reported by the report of the size should be reported by the report of the size should be reported by the report of the size should be reported by the report of the report of the size should be reported by the report of	Publicators 3. Regional Training Spectra. Publicators 3. Regional Training Spectra and Spectra 2. Second	University of Southern Mindanao (USM)	Todotrodoy leasting porconnel ARAIGE: 12 (PTB & UC) monitoring faculty/insearchers with technologies potential for IP protection Agri-Aqua and natural resources graduates MSMEs Young entrepreneurs/start-up	01-Oct-23	30-Sep-2	ONGOING	6,217,228	1,366,466.00
Regional Agri-Agua Innovation System Enhancement (RASE) Program in Western Mindanao	Project 1. Regional Intellectual Progerty and Technology Business Management (IPTBM) in Western Mindanao through the RAISE Program	Integrity of the environment and climate change adaptation and mitigation	Intelectual Property - Technology Business Management (PTBM) project under the RABE/Progen to a strategic management featwork that hady accels and HEE directively manage their interlucial property (P) passes and sign them with the organization's business objectives. PTBM integrates IP management (P) passes and sign them with the organization's business objectives. PTBM integrates IP management due growth and competitiveness.PTBM understates a range of activities, including IP profession management, PI learning and commercialization, PI net management, and P valuation. By effective states and provide the state of the state of the states of the states of the states monoton within the organization, encouraging faculty members and researchers to generate and alters and provide the with the resources of support needed to runn facult space. If the accels PTB is structures (FB based) and HEBs base has shown to round on a traditional property states and provide integration of the structure of the structure of provides provides and accels PTB is structures (FB based). The structures of the structures o	Brie & Darter Treat Zitell-Politations/Compound A Regional Training Reports 1 Regional Training Report Regional Training Reports/Compound 126 Col & Col & So Exploration Training Report Reports Training Report/Compound 126 Explorations (LM Peter only): Comprised in Relations and the Composite International Compound International Inter	Western Mindanao State University (WMSU)	The target beneficiaries of this project are the following: IP-TBM Personnel Partner CMIs Faculty Researchers Students, researchers Technology AdverberEntrepreneurs Technology AdverberEntrepreneurs IP-TBM project can provide numerous benefits to our partner CMIs and other stakeholders, including inventors, investors, customers, consumers, and society. By effectively imanaging their IP assets, technology businesses can protect their innovations, generate revenue, and stay ahead of the competition. IP-TBM projects can provide numerous governments, and sologily, and are an important too for promoting innovation, protecting intellectual property, and driving economic growth.	01-Oci+23	30-Sep-24	ONGOING	2,311,400	1,080,700.00
Regional Agri-Agua Innovation System Enhancement (RASE) Program in Western Mindanao	Project 14. Establishment of the Intellectual Property and Technology Business Management (IPTBM in J. H. Cerilles State College (JHCSC) through the RAISE program	Repti, Inclusive and sustained	Establishment of an PTML center that will facilitate the commercialization of technologies generated in the ANNS excison. Taximorgia del 30 and is region 18. will be established at the Colling Research and knowlands. Center that would possible installational arrangement centralizen and collaboration to the analysis of the stability of the stability of the stability of the Colling Research possible and the Colling Research business network, partnership and installationalization. The implementation of the project is expected to impact the installation of an installationalization. The implementation of the project is expected to products available at lower cost and the localization of RA 10005.	By & 2 Street Tries 7 Teal-Philotostenik less 2 promotional ECAk teal 1 promotional ECAk teal 3 promotional ECAketerski teal 20 (petent and still) model only applicational less 3 P (pater and still) model only applicationski teal 6 P (pater and still) applicational less 3 P (pater and still) model only applicationski teal 6 P (pater and still) experimental less 3 P (pater and still) model only applicationski teal 6 P (pater and still) experimental less 3 P (pater and still) model on the still of the still of the still applicationski teal 6 P (pater and still) applicationski teal 6 P (pater and still) experimental H JACSC D TBM communication plan developed A major pater resources prepared and updated 1 JACSC P TBM communication plan developed A is prepared to the still of	J.H. Certiles State College (JHCSC)	Intellectual Property and Technology Business Management (PTBM) Team of the Institution and faculty researchers Technology transfer officers/managersSUC/RDI Researchers/Inventors	01-Oci+23	30-Sep-24	ONGOING	1,495,800	577;900.00
Regional Agri-Agui Inoxetino System Enhancement (RSIS) Pogram in Western Mindanao	Project IB. Establishment of the Intellectual Property and Technology Business Management (IPTBM) in Jose Rizal Memorial State University (JRMSU) through the RAISE Program	Integrity of the environment and climate change adaptation and miligation	Establishment of PFIMIs in RMSUU will promote the commercialization of technologies relevant to the AMM Sector amount to here the relation the regions. The PFIM will provide capacity building on IP Assessment and Management. Therefore, the relation technologies and here of the relation of the relation of the relation of the relation of the relation technologies and here of the sector of the relation of the relation of the relation of the relation of the relation analysis at lower cost and the facilitation of R.A.10055.	Br & 2 PM ar Theor Total 276(a)-FD36abers Net and 2 promotional ECA4 test 1 promotional ECA4 test 3	Jose Rical Memorial State University (JRMSU)	Faculty and staff of JRMSU' as recipients in most of the training, Eacly and staff of the lurivensity will be immersed in the value of IP and hence development of innovetions will accelerate Students " as future innovators of the country, students will be able to promoting their ischnologies as well as developing an entrepreneural mindset through this program. Entrepreneurs "Potential entrepreneur and their students of the country students and there are the students of the technologies generated in the University thready providing country.Cooperatives " may be able to avail of the technologies that can be used by their constituents.LGUs " this project will strengthen economic development in the locality when licensing and tech transfer will become successful.	01-Oct-23	30-Sep-2	ONGOING	1,415,800	602,900.00

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
Regional Agri-Agus Innovation System Enhancement (RAISE) Program in Western Mindanao	Project IC Establishment of the Intellicented Propert and Technology burnies Management (PTMs) in Philippine Rubber Research Institute (PRR) through the RAISE program	Integrity of the environment and climite change adaptation and mitigation	Edublishment of a unit withs PROI that will facilitate the commercialization of exchendaging generated from the institution's research program. In that provide institution and arrangement orientation and collaboration is its stakeholders; conduct of policy retear and Plaudit; training, membrahis; P protection, branking includings and accouncies, and muticate its houring entropy the intervention of the institution of the stakeholders; conduct of policy retear and Plaudit, training and the stakeholders; the institution of the institution	Part 2 Tradin Statement (Part 2 Tradin Statement) Read 2 provided ECG4 Issuel 1 provided en/y application and Using model en/y application and Using Part 2 (part and using model en/y application and Using Part 2 (part and using Part 2 (part	Philippine Rubber Research Institute (DA-PRR)	PRR technical personnel. Entrepreneurs, Industries, Cooperatives and LGUs	01-Oct-23	30-Sep-25		1,415,800	582,900.00
Enhancement (RAISE) Program in Western Mindanao	and Technology Business Management (PTBM) in Zambanga Star Collage of Manne Sciences and Technology (ZSCMST) through the RAISE program	climate change adaptation and mitigation	relevant to ANNI sector atmost to help the includete in the region. The IPTIM will provide capacity building on IP Aureanness and Management, Henhangs Database Management, Henhands Networking G Opportunities for potential instantly partners in the region. The implementation of the project Management, Henhands and Management, Henhands Management, Henhands products available at lower cost and the facilitation of R.A.1005.	promotion (ECAI) test 3 protocolomi IECoP testenti 4 test 2 (P gateri and utility model only applicational test 3 (P gateri and utility) model only applicational test 8 (P gateri and utility model only) applicational test P gateria and utility model only applicational test 8 (P gateri and utility) model only in price of the second second second second second second patient 1 Second second second second second second second second patient 1 Second second second second second second second second patient 1 Second second second second second second second second second second second second second second second second second second developed damp, implemented 2 (2014) FPIM communication plan developed damp; implemented Tech Compain developed damp; implemented 1 second seco	Sciences and Technology (2SCMST)	Technopreneurship and Innovation Office of the College, its researchers, and inventors.	0100423	0009723		1,453,000	37,300.00
Regional Agri-Aqua Innovation System Enhancement (RASE) Program in Western Mindanao	Project 2.2 Exabilishment of Regional Agni-basiness Huk (ABH) in Western Mindanao through the RAISE program	Integrity of the environment and climate change adaptation and mitigation	The establishment of the Agribustness Hub is percented to be an effective strategy to promote capacity biology is the sense ISOLGRU with proceensinguizative fictoring generations with a biochard and the strategy of the Development Consortum (WESMANREDEC), with the Veteram Mindunes State Liveursity-College of Agriculture as the beap deproy for Agribustness capacity building: a faint build a support strategy of the development Consortum (WESMANREDEC), with the Veteram Mindunes State Liveursity-College of Agriculture as the beap deproy for Agribustness capacity building: a faint build a support strategy building to consortium in region 21 shall be capacitated through the Agribustness Maistratedias altere E and Commercitations experts shall energy and and Valuation technology table developed to ever as an output of the mathematica and existing of Valuation technology will be developed to ever as an output of the mathematica and existing participants are expected to card an submit final culpture the mathematica. These this are strated to be a valued to be those the strategy will be developed to ever a an output of the mathematica and existing on the biotical strategy and to there again expected to and submit final culpture the existing. The submit for the strategy and the trategore to ever the strategy of the training is the strategy of the strategy of the strategy of the the existing. Market the culture the training is the strategy of the strategy of the strategy of the training of the mathematica and existing the training of the training is the strategy of the strategy of the training of the strategy of th	Girl & & Diram Hoter Zindel-Nationan Filogonal Training Report Regional Training Report Regional Training Report ReartInformation Resource Resource Report Regional Training Report ReartInformatical Processmentalisations anxietable Re- Read Datasets Band Handes Study Charlens Education Learning Regional Resource Report Regional Training Regional Read Regional Training Regional Resource Report Regional Regional Providence of Conference on Antonia AMBASC Conference on Antonia Study Charlens Conference on Antonia AMBASC Report Regional Regional Providence of Conference on Antonia AMBASC Region Regional Regional Providence of Conference on Antonia AMBASC Regional Regional Regional Providence of Conference on Antonia AMBASC Regional Regi	Western Mindanao State University (WMSU)	The target beneficiaries of this project are the technology generators and researchers involved in AANR research and the AANR sectors and MSMEs.	01-Oct-23	30-Sep-25	ONGOING	1,264,400	619,700.00
Regional Agri-Agua Innovation System Enhancement (RSIS) Program in Western Mindanao	Project 3 Regional Agri-Aqua Technology Business Incubator (ATB) in Western Mindanao through the RAISE program	Integrity of the environment and climate change adaptation and mitigation	The ApriApa Technology Business Includer (ATB) has been institutionalized at Western Mindeaso Sate Unknesky (WKB) in Zamoorago (24), with the approval from the WKBB dead of Begnetin (BOR) Resolution (25), wester (24), wester (24), which are approximately a set of Samara and Mindeaso (25), and the Carlos (24) and the Carlos (25), and the Carlos (25), and evaluation Center (URC) of the Office of the Vero Persider (For Search, Edension Sankora, and External Lindage (RESEL) - WKBU. The TBI Link was luther capacitated and threnghened by mighteneting the DECE (14) de Office of Lindage (14), and the Carlos (25),	Gri & 2. Urean Yines "Classifications:Component AC Regional Training Reports Regional Training Reports Regional ATEID Constitution ATEID Constitutions and Rest Regional ATEID Sections and and Rest Rest Rest Rest Rest Rest Rest Rest	Western Mindanao State University (WMSU)	The target beneficiaries of this project are the farmers, MSMEs, technology adopters, technology generators, cooperatives, associations and other organizations, would-be entreprenerums, and CMIs and RDIs who are willing to be capacitated and be partners of the ATBI network.	01-Oc+23	30-Sep-25	ONGOING	2,814,640	1,347,320.00
Regional Agri-Agua Honovelion System Enhancement (RAISE) Program in Western Mindanao	Project 4, Establishmet of Regional Knowledge Indengement (Kd) full in Western Mindanao Brough the RAISE program	Integrity of the environment and climate charge adaptation and mitigation	Continuous Incontation in the approximate, and natural resource sectors in Zumboranga Pennisula is facilitated forcing involves messen and development (RD) projects that general builded incondering. Such incontedge serves as intellectual property (P) assets that significantly influence the constraintim's comparison and such assets that and the server of the server of the server and the server of the server of the constraintim's server of the server of the server by leveraging the experities and resources of the constraint member institutions (CMA), the RKM Mail development and auxiliantial endergies in the region. A server of the server o	Bit & Dirken Tree: Total/Databatense: Regional Training Report Regional Training Report Regional Training Report Regional Training (Report Regional Training) Report Regional Training (Report Regional Training) (Regional Tr	Western Mindanao State University (WMSU)	The grodet is beneficial to those who are involved in the agriculture, audit, and natural resources sectors. Specifically, they are the researchers from the academe and research institutions, adopters, industry players and other stakeholders.	01-Oci-23	30-Sep-25	ONGOING	1,309,400	579,700.00
Regional Agri-Aqua Innovation System Enhancement Program in SOCCSKSARGEN	Project 1A. Establishment of the Intellectual Property Business Management in Sultan Kudarat State University (SKSU) through the RAISE Program	Integrity of the environment and climate change adaptation and mitigation	The Bopcard Agriduat Increased System Environment III Page 112 (ISME: 12) Inorgani index poper 1 all INFA in tendencial Provem III Devoluting (INFA III) Analysis of the III III Region 11 all INFA in tendencial Provem III III III III III III III IIII III	Advances 3 Elizabanet 3 programmers (MA Porten ony) Copyright (EDR)holast 5 POR Report IDP and a programmer (MA Porten ony) Copyright (EDR)holast 5 program da updated ICM communication plan devolped Amplemented Trent Comman devolped and Portentiate (Technology with procedum reports 2 technologies planter) Technology Commercialized, People 2 CMI attl Teneria in national IPA/CC 04 att TEMSC DM staff attention of technology Commercialized and technology 1 Pelicy/Technology Commercialized attended regional model and tended region PAISC DM staff attention or conclused Timor 24 and in echo seminary Mitcipable Isocher parement willusines:Trade Institutions I Commercialization AgreementProto- Cating densities and the placet DM staff attended regional technology transfer protocol Paiser/Technology Commercialization AgreementProto- Cating densities and the placet DM staff attended regional technology transfer protocol Paiser/Technology Commercialization AgreementProto- Paiser 56 of 70	Sultan Kudarat State University (SKSU)	Technology transfer personnel SKSU faculty/researchers with technologies popriAdit for IP protection popriAdit for the protection with Missi Young entrepreneurs/start-up	01-Oct-23	30-Sep-25	ONGOING	2,414,520	621,130.00

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31,	Total Project Cost	2024 PCAARRD GIA
Regional Agri-Aqua Innovation System Enhancement Program in SOCCSKSARGEN	Project 18. Establishment of Intellectual Property and Technology Business Management (IPTBM) in Mindrano State University-General Santos (MSU- GenSan) through the RAISE Program	Integrity of the environment and climate change adaptation and mitigation	The Regional Agrin-Agria Invoided System Educationation in Region 12 (RASE-12) Program under Region 12 and 15 dominical and previous in Region 12 (RASE-12) Program under Region 12 and 16 adoministic SUC methods. The project all gives rehance the intellectual property (P) in the regional groundle nonosite charge tracycopy of protections and technology commercialization. Prevanit to RA 1005, the Technology Transfer Act of the Philippene, the project at the regional groundle nonosite charge tracycopy and abiology documents management (PTBM). MBU- Groundle and the relation of the Real and the RASE of the Philippene, the project at therein regionated incomparison and the relation of the RASE of the Philippene (PTBM). MBU- Groundle relation to the Real and the RASE of t	Robotanics 3 Ecologistics IP Applications (UA & Palent entry)S Copyright (ECoR/hostar: 5 Paragement and updated IC MI communication plan developed A splicement of Tresh Commission developed Tresh and the entry of the entry of the entry of the entry of the paragement and updated IC MI communication plan developed A splicement of Tresh Commission developed Tresh and the entry of the entry of the entry of the planted Treshondory Commercialized, Papele 2 (2014 attit times in national PMC2 (2014 attit times in national Tables) to content times in times in national PMC2 (2014 attit times in national Tables) to content times in national PMC2 (2014 attit times in national Tables) to content times in national PMC2 (2014 attit times in national Tables) to content times in national PMC2 (2014 attit times in national Tables) to content times in national PMC2 (2014 attit times in national Tables) to content times in national PMC2 (2014 attit times in national Tables) to content times in nattit times in national PMC2 (2014 attit	Mindanao state University - General Santos City (MSU-GSC)	Technology transfer personnel MSU- Gen San faculty/researchers with technologies potential for IP protection Agri-Aqua and ratural resources graduates MSMEs Young entrepreneum/start-up	01-Oct-23	30-Sep-25	2024' ONGOING	2,414,520	641,130.00
Regional Agri-Aqua Innovation System Enhancement Program in SOCCSKSARGEN	Project 10. Establishment of Intellectual Property and Technology Business Management (IPEM) in Cotabato State University (Co(SU) through the RAISE Program	Integrity of the environment and climate change adaptation and mitigation	The Regional Agri-Agas Introduction System Enhancement in Region 12 (RASE: 12) Program under the Region 12 and 16 software 12 and 12 a	Publication: 3 ECoR-Meet: 5 & Replanations (UMA Peterio min)) 5 - 9 - mpt Anticological and a second secon	Cotabato State University (CotSU)	Target Beneficiaries: Technology ransfer personnel CotBU fosulty/researchers with technologies potential for the protection Agri-Agua and natural resources graduates MSNEs Young entrepreneum/start-up ,	01-Oct-23	30-Sep-25	ONGOING	2,414,520	618,630.00
Regional Agri-Aqua Innovation System Erhancement Pogram in SOCCSKSARGEN	Project 10. Establishment of the Intellectual Property and Technology Bunines Management (PTBM) for Cotabate Foundation College of Science and Technology (CFCST) through the RAISE Program	Integrity of the environment and climate change adaptation and mitigation	The Regional AgrinAgra tencetion System Enhancement in Region 12 (RAUSE: 12) Program under Region 12 with Sterified SUC metrics. This project will further encode the intellectual property (iP) in the region 14 prime is the ISA VIGB. The tenchonology in teach 4.04 for Hospitaprice VIG VIGB 14 (IR) in the region 14 prime is ISA VIGB. The tenchonology in teach 4.04 for Hospitaprice VIG VIGB 14 (IR) in the region 14 prime is ISA VIGB. The tenchonology in teach 4.04 for Hospitaprice VIG VIGB 14 (IR) technology business management (IPIIB) operations at Colabale Foundation Colleged 5 dones and technology commercialization in SUCS. MOSE: 12 mooptices the red of SUCs in and Exchonology commercialization in SUCS. MOSE: 12 mooptices the red of SUCs in promoting intellectual properties and technology commercialization for regional development.	Publication: 3 ECoP4ent: 8 Perspectators (UMA Peterior (ny)) Park Lehncholgen tensors properties and updated 1 inventory of kookledge resources properties and updated 1 inventory of kookledge resources properties and updated 1 inventory of kookledge resources properties and updated 1 kontoniques patient production and the second properties and the second 2 constant formed in restoral ANAC 2 CM staff framed in restoral ANAC 2 CM staff andresid restoral Proving-Rhit Tens Petodor Inview 2 CM staff andresid on commission Participate to committe Subility of RMLINETARC In Committeent Letter for the national Participate in Sources in Walkings Charling lenhancement of the paking 1 Commondization Agreement/Philips; Calting/enhancement of the paking 1 Commondization Agreement/Philips; Calting/enhancement of the paking 1 Commondization Agreement/Philips; Calting/enhancement of the paking 1 Committeent Lendors; Calting/enhancement of the paking 1 Commondization Agreement/Philips; Calting/enhancement of the paking 1 Committeent Lendors; Calting/enhancement of the paking committeent Lendors 1 Committeent Lendors; Calting/enhancement of the paking committeent	Cotateto Foundation College of Science and Technology (CFCST)	Testnology transfer personnel CFCST faculty presentation with technologies Agri-Agua and natural resources graduates MSMEs Young entrepreneurs/stant-up	01-Oct-23	30-Sep-25	ONGOING	2,414,520	618,630.00
Regional Agri-Aqua Innovation System Enhancement Program in SOCCSKSARGEN	Project 2. Establishment of Regional Agri-business Hub (ABH) in SOCCSKSARGEN through the RAISE Program	Integrity of the environment and climate change adaptation and mitigation	The project titled adExhibiting the Regional Agricultures this for the Phe-Commendiated in Charles and the second secon	Pachatanter: Pachatanter: Pachatanter: I stansing special radio SABAC I stansing special radio SABAC I stansing special radio SABAC I stansing special radio SABAC Pachat: Copyshil of Taxing Report I Pachat: Copyshil of Taxing Report I Pachatanter I Pacha	University of Southern Mindanao (USM	The target beneficiaries of the project are as follows: Entrepreneurs, start ups Market researchers Consortia researchers and technology transfer officers Prospective adopters of technologies or product generated from the agri-equa sector Government partners	01-Oct-23	30-Sep-25	ONGOING	2,480,800	662,700.00
Regional Agri-Aque Increation System Enhancement Program in SOCCSKSARGEN	Project 3: Regional Agri-Aqui Technology Business Includer (ATB) in SOCCSKSARGEN through the RAISE Program	Istegriyo of the environment and climate change adaptation and mitigation	There are to Technology Burness includios established in the region, the UBA MTB and SR3UMT de operating independently with minimal interaction will ach dive. UKAPO 12, an active CM of SOMARROEC 6 also establishing in TBI. The effects of these TBIs will be similed infraor general devices of the technologies of the sector of the sector of the sector of the sector devices of the CMA of SOUMARROEC Losid he mechanism to accelerate technology commercialization 12. Most of the CMA of SOUMARROEC Losid he mechanism to accelerate technology commercialization 12. Most of the CMA of SOUMARROEC Losid he mechanism to accelerate technology commercialization 12. Most of the CMA of SOUMARROEC Losid he mechanism to accelerate technology commercialization 13. Most of the CMA of SOUMARROEC Losid he mechanism to accelerate technology commercialization 14. Activities to benefit foci only of fee but more, hence the need to establish the Regional Agri-Aquia Business Incubation Project, hence this project.	In Publication: 2 Regional Training Reports 4 controllineties training report at lar CAB landrighants who attended to TCMS 4 controllineties training report at March 2 1 Regional ATIB service Offering program 1 Regional ATIB service Offering program 1 Consolidated control of existing A rew ATIBs 4 rew offering ATIB service 2 Service ATIB MC Annual Control ATIB ACC Corputing of Training Report 1 Consolidated control ATIB ACC 2 Standholgen controllated the commercialization of 1 CAB 2 Service Control Attack of the ACC 2 Acceleration of the Acceleration of the Acceleration of ACCE 3 Acceleration of Acceleration of ACCE 3 Acceleration of Acceleration ACCE 3 Acceleration Acceleration of ACCE 3 Acceleration Acceleration ACCE 3 Acceleration Acc	Sullan Kudarat State University (SKSU	Target Beneficiaries: Agri-Aqua and natural resources graduates Member SUS of SOXAARDEC MSMEs Young entrepreneurs	01-Oct-23	30-Sep-25	ONGOING	3,010,800	1.220.260.00

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status 'As of December 31, 2024'	Total Project Cost	2024 PCAARRD GIA
Regional Agri-Aqua Innovation System Enhancement Program in SOCCSKSARGEN	Project 3A. Enhancement of the Agri-Agua Technology business houbaid of ABI jin University o Southern Mindanao (USM) through the RAISE Program	Integript of the environment and climate change adaptation and mitigation	The Regional Agri-Aqua Incrustors System Enhancement IR Region 12 (RMSE-12) Program under Project 1 vill handle he Intelicical Property on Chronkogy Burnes Mangement operations in Region 12 with the dentified SIX-mentees. This project will further enhance the sign- aqua innovations to prove farthy dentified SIX for the Annual Agric Six and Six a	Expected Outputs (#9)-Tabibative Version 11 ATIB tourses plan reviewed an needed Natio operations manual media an exected to basis inclusionia analare index an exected advanced inclusion cambulan developed 2E C4 promotional matteria for the ATIB production and the sected to basis the includies developed ATIB statutaneous plan developed and implemented 1ATBI communication plan developed and implementative developed 2E C4 and C4 and C4 and C4 and C4 and plan developed and implemented 1ATBI communication plan developed and implementative developed providers where the combates developed 2ATIB statutaneous plan developed and implementation of the solution of the combates and evolution continuing non-basis between the solution of model and the control of the combate and evolutions developed by the solution of model and the control of the combate matched the angles of the ATIB at dominants and the solution of participant includies and the combates and the combates and the control of the combate matched the angles of the ATIB at dominants and the angle of the models as conducted 10 business plans for the new includies developed by business plans for the control on globales regreated a statude of the includies developed by business plans for the control on globales angles of the new includies developed by business plans for the control on globales regreated a statude of the includies of the control of the solution of the one includies of the control of the solution of the one includies of the control of the control on globales and the control of the control of the control of the control of the new includies of the control	University of Southern Mindanao (USM)	Trage Bendicairies Version TradugBuent Enchlogy generatorsCooperativesResearchersLocal entrepreneursLocal companies	01-Oct-23	30-Sep-25	ONGOING	3,830,200	942,550.00
Regional Agri-Aqua Innovation System Enhancement Program in SOCCSKSARGEN	Project 4. Establishment of Regional Knowledge Management (MV) Hub in SOCCSKSARGEN through the RAISE Program	Integripy of the environment and climate change adaptation and mitigation	The State Universities and Colleges (SICO) in the Philippines have produced bith of Monalegie Products (PG) from programs and initiates they have implement. With all best sovedge products generated, it is impetitive that each needs a systematic test in order to improve access for exclusion of the programs and initiates they have implement. With all best sovedge products (PG) the the section of the creating sharing, a structuring and audition that and the intervention of the systematic of creating sharing, a structuring and auditions that and the maximum the effectiveness of an organization's collective knowledge. Cognitizations that and the maximum the effectiveness of an organization's collective knowledge. And and structures and the maximum test and share knowledge and ensuring an output of collective and cursely. In employees can quickly access best pactices, information on past projects and dher key information the anothers the work. Che of the best ways project and promoting the doption of the bitmickgy generated counter of the structure is they advected the structure of the structure of an ability of the structure is the structure of the structure of the structure of an ability access best pactices, the project and the result of the structure of an ability of the structure is the structure of the structure of an ability of the structure is the structure is the bitmickey generated the program entitied autivation and and an entitive the bitmickey generated the program entitied autivation and that all Resources the the bitmickey and the test in accessions on capacity budge week generative that week structure the constructure the structure of the structure of the structure of the Constructure Member Institutions (CMBs).	Publication: Publication: 2 Regional Training Reports at the CMI purclegants who attended to TRAS 1 consolitative training report at the CMI purclegants who attended to TRAS and the CMI purclegants who attended to TRAS 1 regit training report on national TPAS 3 commonian materials (whose, priviloxia) media, RASE calendar) developed Pater: 1 PA politational RAGE topo 2 comprises final RAGE topo 2 comprises final RAGE topo 2 comprises attended to privilo Resources 1 to anomalian RAGE topo 2 comprises final RAGE topo 2 co	University of Southern Mindanao (USM)	The target beneficiaries of the project are the following: Koovledge Management CMB Representatives Consortia CMI researchers and technology generator Prospective adoptors of technologies generated from shmpnote runs minimum partners/Privale industry Students	01-Oct-23	30-Sep-25	ONGOING	2,528,000	644,500.00