Department of Science and Technology
Philippine Council for Industry, Energy and Emerging Technology Research and Development (PCIEERD)
Proiect Beneficiaries

Project Beneficiaries Implementation Period								
Program/Project Title	Implementa Start	Expected date of Completion	Implementing Agency	Location	Beneficiaries	FY 2012 Budget		
KRA 3: Rapid, Equitable & Sustained Economic Growth								
Nanotechnology								
Conjugated Diblock Copolymer Nanocomposite Heterojunctions- Nanostructured Materials for Improved Photovoltaics	1-Sep-11	31-Aug-13	IC -UP Diliman	NCR	Manufacturing industry	5,873,562.00		
Development of Electrochemical SPR Sensing Using Electroploymerized MIPs and Nanomaterials for Detecting EDCs and Chemical Contaminants	16-Sep-10	15-Sep-13	IC -UP Diliman	NCR	Manufacturing industry	1,139,817.00		
Development of DNA- based Nano-Biosensors for Food and Environmental Applications	1-Jan-12	1-Dec-14	BIOTECH- UPLB	Region IV-A	SMEs	7,091,711.00		
Fabrication and Characterization of Tin Oxide-Silver Composite Nanomaterials Synthesized by Horizontal Vapor Phase Growth (HVPG) Technique for Antiheat and Antimicrobial Applications	16-May-12	15-May-13	DLSU	NCR	SMEs	999,996.00		
Biotechnology								
I. Utilization/Conversion of Sago Starch into Value- Added Products: Ethanol and Lactic Acid								
I.1 Cloning and Expression of Raw Starch-Digesting Amylase Genes from Saccharomycopsis fibuligera and Saccharomycopsis bubodii for Direct Ethanol fermentation	1-Dec-11	30-Nov-12	UP Mindanao	Region XI	SMEs	460,544.00		

I.2 Ethanol	1-Dec-11	30-Nov-12	UP Mindanao	Region	SMEs	790,774.00
fermentation of Sago				XI		
Starch using Raw Starch Digesting						
Amylases: Strategies						
for Ethanol Production						
without the Costly						
I.3 Direct Lactic Acid	1-Dec-11	30-Nov-12	UP Mindanao	Region	SMEs	1,027,215.00
Fermentation of Sago	1-DCC-11	30-1101-12		XI	SIVILS	1,027,213.00
Starch without the				211		
costly starch						
pretreatment using						
Enterococcus faecium						
DMF78 : Pilot Scale						
II. SAGO BIORESOURCE						
ASSESSMENT						
FORSUSTAINABLE						
INDUSTRY UTILIZATION						
USING RS, GEOSPATIAL,						
AND SUITABILITY						
II.1 GIS-Assisted	1-Dec-11	30-Nov-12	UP Mindanao	Region	Sago Industry	1,625,000.00
Assessment of Yield of	1-Dee-11	30-1101-12		XI	Sago muusu y	1,025,000.00
Sago or Sustainable				211		
Industry Utilization						
II.2 Mapping of Sago	1-Dec-11	30-Nov-12	UP Mindanao	Region	Sago Industry	287,000.00
habitats from optical and			and UP	XI/ NCR	0,00	
radar images using			Diliman			
suitability relationships						
III. SAGO BIORESOURCE						
CONSERVATION AND						
SAGO FLOUR						
PRODUCTION						
III.1 Clonal Propagation	1-Dec-11	30-Nov-12	UP Mindanao	Region	Sago Industry	450,933.00
of Sago Palm				XI		
III.2 Flour Production	1-Dec-11	30-Nov-12	UP Mindanao	Region	Sago Industry	875,149.00
from Sago For Food and				XI		
Non Food Uses						
Fuel Ethanol Production	1-Oct-12	31-Dec-13	BIOTECH-	Region IV-		10,000,000.00
from Lignocellulosic			UPLB	А	Industry/	
Feedstocks					SMEs	
Genomics	1. D	20.11		NGE		70 (10 000 00
Capability Building in	1-Dec-11	30-Nov-14	PGC- UP	NCR	Manufacturing	79,610,000.00
Research and Development			Diliman		Industry/	
on Genomics:					SMEs	
Establishment of the						
Philippine Genome Center DNA Sequencing Facility						
and the Bioinformatics						
and the Diomiormatics		I				

Abaca Functional	1-May-12	30-Apr-12	IPB-UPLB	Region	SMEs	8,299,895.00
Genomics: High				IV-A		
Throughput Discovery of						
Genes and Molecular						
Genomics and Functional	1-May-12	30-Apr-12	UPLB	Region	Banana	2,821,681.00
Analysis of Traits of				IV-A	Industry	
Saba/Cardaba Mutants with						
Resistance to Banana						
Bunchy Top Disease						
Varietal Development of	1-May-12	30-Apr-12	IPB-UPLB	Region	Banana	3,551,133.00
Saba/Cardaba with Delayed	-	_		IV-A	Industry	
Ripening Trait						
Novel Enzymes and	2012	2015	BIOTECH-	Region	SMEs	21,916,000.00
Bioactive Compounds from			UPLB	IV-A		
Mangrove Metagenomes						
for Health, Industrial and						
Agricultural Applications						
Information &						
Communications						
Technology						
<i>Towards the Development</i>	1-Apr-09	30-Mar-12	AdRIC,	NCR	Empathic	2,774,596.50
-	1-Apr-09	50-Mar-12	,	NCK	-	2,774,596.50
of a Self-Improving and			College of		Computing	
Ambient Emphatic Space:			Computer		research	
Data-centric, Multimodal			Studies, DLSU		community	
Emphatic Modeling from					Music	
Pluridisciplinary					Information	
Discipline (6 projects)					and Retrieval	
					research	
					community	
Development of Affect- sensitive Interfaces	1-Feb-11	31-Jan-12	AdMU	NCR	Students/Rese archers	916,000.00
ERDT: ICT for Education:						
Interdisciplinary Signal						
Processing for Pinoys						
(ISIP)						
Project 1. Digital Database	15-Jul-11	14-Jul-13	Rhandley	NCR	Academe/	498,370.00
of Filipino words (Bantay	10 001 11	1104115	Cajote, EEEI-	nen	Students	190,970.00
Wika)			UP Diliman		Brudents	
Proj. 3. Real-time Closed	15-Jul-11	14-Jul-13	Federico M.	NCR	Academe/	446,555.00
Captioning for Filipino	1 <i>3-</i> <b>J</b> ul-11	1 <del>4</del> -Jul-13	Ang, EEEI-UP	NCK	Students	++0,333.00
News			Diliman		Students	
Electronics/Semiconducto	ļ				<del> </del>	
r Industry						
Establishment of an	1-Jan-12	31-Dec-12	ITDI-DOST	NCR	Manufacturing	358,330,000.00
Advanced Device and	1-Jall-12	51-Dec-12	ונטע-ועדו	INCK	Industries	556,550,000.00
					moustries	
Materials Testing						
Laboratory for						
Semiconductor and						
Electronics Industry						
Prototyping and Testing					IT1 turn in	25,000,000.00
	1-Oct-12	30-Sep-15	Mr. Vic Gruet		Electronics	23,000,000.00
Center for Electronics Industry	1-Oct-12	30-Sep-15	Mr. V1c Gruet		Industry	23,000,000.00

R&D on Smart Wire	1-Oct-12	30-Sep-15	UP Diliman	NCR	Electronics Industry	25,000,000.00
Photonics						
Automated Rapid Reef Assessment System - Proj. 2 - Computerized Reef	1-Jun-12	31-May-13	Mapua Institute of Technology	NCR	Coastal Communities/ LGUs/	2,436,070.20
Assessment and Visualization (Year 3 of 3					Academe	
years)						
Industry Enhancement of Biotechnology Products and Services for Food, Feed and Other Agro- Industrial Applications	1-Mar-12	28-Feb-12	Biotech/UPLB	Region IV-A	Food and Feed Industry	45,006,106.00
"Strengthening the Testing and Analystical Capabilities of the Regional Laboratories to Support the Competitiveness of Local Industries (STARLABS)		31-May-13	DOST Regional Offices	All Regions	SMEs	47,877,456.00
Design and Developmentof a Locally Fabricated Ultra High Temperature/High Temperature Short Time Pasteurizer	9-Nov-12	31-Jan-14	Batangas State University	Region IV-A	SMEs	7,593,303.85
Program on Technological Support for the Upgrading of Local Cacao and Cocoa Industry (Project 1 to 4)	Nov-12	Jan-15	ITDI/MIRDC/ BIOTECH	NCR	Cocoa Industry	22,949,451.00
Energy						
Bench Scale Bioethanol Production from Sweet Sorghum as Feedstock			MMSU	Region I	Transport sector/SMEs	1,138,296.00
ICETT Activities						36,420.00
	2-Dec-11	31-Mar-12	Central Bicol State University of Agriculture	Region V	LGU, General Public	197,000.00
Mining and Minerals						70,000,000.00
RESPONSIBLE MINING: Program 2-Biodiversity Assessment of Terrestrial and Aquatic Exosystems in Selected Mining Environs in Mindanao						
Proj. 1- Assessment of Terrestrial Ecosystems in Selected Mining Environs in Mindanao	1-Sep-12	31-Aug-15	Caraga State University	Region XIII	Mining Industry	9,278,680.00

Proj. 2 - Assessment of Aquatic Ecosystems in Selected Mining Environs in Mindanao	1-Sep-12	31-Aug-15	Caraga State University	Region XIII	Mining Industry	5,671,951.00
Proj. 3- Monitoring, Assessment and Profiling of Artisanal and Small- Scale Mining in Key Areas in Mindanao	1-Sep-12	31-Aug-15	Caraga State University	Region XIII	Mining Industry	5,480,380.00
Proj. 4 - Contamination Pathway and Pollution Management of Mining in Mindanao	1-Sep-12	31-Aug-15	Caraga State University	Region XIII	Mining Industry	7,657,954.00
RESPONSIBLE MINING: Program 3- Development and Verification of Appropriate Technologies for Responsible Mining						
Proj.1 - Rehabilitation of Areas Affected by Nickel Mining in Surigao Provinces	1-Sep-12	31-Aug-15	Caraga State University	Region XIII	Mining Industry	1,726,976.00
Proj.2 - Rehabilitation of Mercury Contaminated Gold Mining Sites in South Cotabato	1-Sep-12	31-Aug-15	Caraga State University	Region XIII	Mining Industry	2,017,552.00
Proj. 3 - Alternative Technology For Processing of Chromite and Laterite Ores CRDUFE FE-NI-CR Alloy Production	1-Sep-12	31-Aug-15	Caraga State University	Region XIII	Mining Industry	3,433,780.00
Proj.4 - Dev't. of an Alternative Technologies for Small-Scale Gold Mining in CARAGA and South Cotabato Region	1-Sep-12	31-Aug-15	Caraga State University	Region XIII	Mining Industry	7,299,143.00
Proj. 5 - ICT Support to Responsible Mining in Mindanao	1-Sep-12	31-Aug-15	Caraga State University	Region XIII	Mining Industry	5,562,650.00