

**CY 2011 DOST-GIA Projects
By Key Result Areas
Approved Projects**

TRANSPARENT, ACCOUNTABLE AND PARTICIPATORY GOVERNANCE

| Project Code | Title | Current Year | | Implementing Agency | Monitoring Agency | CY 2011 Fund |
|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------|------------------------------------------------|--------------------------|------------------------|
| Program Name: EDOST: INSTITUTIONALIZING ICT WITHIN THE DOST SYSTEM | | | | | | |
| [1] 3321 | Project 3. E-DOST-OPEN STANDARDS: Program & Change Management and Implementation of Open Standards to DOST (Year 3 of 3) | 1/1/2011 | 6/30/2011 | ASTI | PCASTRD | 2,071,188.70 |
| Program Total: | | | | | | P 2,071,188.70 |
| Program Name: -None- | | | | | | |
| [2] 5609 | Broadcasting Support for Bago Yan Ah (BGY) for the Year 2011 (Year 1 of 1) | 9/12/2011 | 9/11/2012 | ABS-CBN | STII | 1,846,000.00 |
| [3] 3805 | DOST Sectoral Councils' Review and Evaluation of Projects Under the 'Engineering Research and Development for Technology' Program (Year 3 of 3) | 1/5/2011 | 1/4/2012 | PCAMRD PCARRD PCASTRD PCIERD PCHRD | DOST-CO | 899,015.23 |
| [4] 5151 | DOST's Participation in the 6th National Biotechnology Week (NBW) (Year 1 of 1) | 11/12/2010 | 5/11/2011 | PCARRD | PCIEERD | 531,663.00 |
| [5] 5611 | ICT R&D Roadmap and Rationalized Program Preparation (Year 1 of 1) | 9/12/2011 | 3/11/2012 | ICTO | PCIEERD | 1,930,000.00 |
| [6] 5124 | Ignite the Mind: Visions for 2011 and Beyond (An Information Project for Mainstreaming Cooperation and Changing Perception Towards Achieving a Common Goal (Year 1 of 1) | 12/3/2010 | 1/18/2011 | STII | NRCP | 170,150.00 |
| [7] 4766 | Organizational Transformation of DOST Agencies Towards Performance Excellence (Year 1 of 2) | 7/1/2010 | 6/30/2011 | MIRDC | PCIERD | 2,530,010.00 |
| 4766 | Organizational Transformation of DOST Agencies Towards Performance Excellence (Year 2 of 2) | 1/1/2012 | 3/31/2012 | MIRDC | PCIERD | 1,423,890.00 |
| [8] 5703 | Philippine Hosting of the 2011 Inter-Sessional Panel of the United Nations Commission on Science and Technology for Development (UNCSTD) (Year 1 of 1) | 10/1/2011 | 12/31/2011 | DOST-PES DOST-OUsec for S&T | NRCP | 1,136,720.70 |
| [9] 5612 | Philippine Hosting of Three (3) Back-to-Back Asia Pacific Telecommunity (APT) Events Focusing on Telecommunications Regulations and Standardization (Year 1 of 1) | 9/12/2011 | 12/11/2011 | ICTO TelOF | STII | 3,807,477.00 |
| [10] 4282 | Strengthening NAST S&T Advocacy (Year 2 of 4) | 6/15/2010 | 6/14/2011 | NAST | STII | 1,419,869.00 |
| [11] 4682 | Sustaining the Operations of Newly-Established Philippine Science High School Regional Campuses in Central Luzon and Cordillera Administrative Region (Year 1 of 1) | 6/1/2010 | 5/31/2011 | PSHS | SEI | 5,567,000.00 |
| Program Total: | | | | | | P 21,261,794.93 |
| Group Total: | | | | | | P 23,332,983.63 |

POVERTY REDUCTION AND EMPOWERMENT OF THE POOR AND VULNERABLE

| Project Code | Title | Current Year | | Implementing Agency | Monitoring Agency | CY 2011 Fund |
|------------------------------------------|--------------------------------------|---------------------|------------|----------------------------|--------------------------|---------------------|
| Program Name: CONTINUING R&D INITIATIVES | | | | | | |
| [1] 5126 | Combating Double Burden Malnutrition | 12/1/2010 | 11/30/2011 | FNRI | PCIEERD | 1,736,770.00 |

Through Industry Driven R&D Programs
 Project 2. Handbook on Nutrient Composition
 of Selected Philippine Vegetables and
 Standardized Recipe (Year 1 of 1)

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| [2] | 5139 | Protocol Setting for the Iodination of Conotoxin GIIIA as Ligand for Radiometric Receptor Binding Assay of Paralytic Needs Assessment (Year 1 of 1) | 1/1/2011 | 12/31/2011 | PNRI | PCIEERD | 1,500,000.00 |
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Program Total: **P 3,236,770.00**

Program Name: FIELD-BASED RAPID DIAGNOSTIC KIT FOR THE EARLY DIAGNOSTIC OF DENGUE

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| [3] | 4486 | Proj. 1 In-House LAMP Diagnostics for Dengue Virus Infections in the Philippines (The Biotek-M Project) (Year 1 of 1) | 8/1/2011 | 1/31/2012 | UPM-NIH | PCHRD | 208,073.00 |
|-----|------|-----------------------------------------------------------------------------------------------------------------------|----------|-----------|---------|-------|------------|

Program Total: **P 208,073.00**

Program Name: HIP: R & D PROGRAM FOR BROWN RICE (ORYZA sativa L.) OPTIMIZATION, FUNCTIONALITY, AND UTILIZATION IN THE PHILIPPINES

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|-----|------|-----------------------------------------------------------------------------------------------|------------|------------|------|---------|--------------|
| [4] | 4912 | Project 1: Optimization Studies for the Improvement of Shelf-life of Brown Rice (Year 1 of 2) | 12/16/2010 | 12/15/2011 | FNRI | PCIEERD | 2,393,656.00 |
|-----|------|-----------------------------------------------------------------------------------------------|------------|------------|------|---------|--------------|

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| [5] | 4914 | Project 2: Mineral Bioavailability, Dietary fiber and Fermentability Characteristics of Optimized Brown Rice and Its Developed Products (Year 1 of 1) | 12/16/2010 | 12/15/2011 | FNRI | PCIEERD | 1,733,514.00 |
|-----|------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|------|---------|--------------|

Program Total: **P 4,127,170.00**

Program Name: NUTRITIONAL AND HEALTH BENEFITS OF MALUNGGAY (MORINGA OLEIFERA) AS FUNCTIONAL FOOD

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|-----|------|-----------------------------------------------------------------------------------------------------------|-----------|-----------|------|-------|--------------|
| [6] | 5386 | Project 1: Dietary Fiber Composition and Fermentability Characteristics of Malunggay Leaves (Year 1 of 1) | 9/16/2011 | 9/15/2012 | FNRI | PCHRD | 1,271,090.00 |
|-----|------|-----------------------------------------------------------------------------------------------------------|-----------|-----------|------|-------|--------------|

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| [7] | 5387 | Project 2. Bioavailability of Iron, Zinc and Calcium from Malunggay Leaves and Fruit: An In Vitro Assessment (Year 1 of 1) | 9/16/2011 | 9/15/2012 | FNRI | PCHRD | 1,803,583.00 |
|-----|------|----------------------------------------------------------------------------------------------------------------------------|-----------|-----------|------|-------|--------------|

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| [8] | 5388 | Project 3. The Efficacy of Malunggay Leaves Sprinkle in Improving the Iron, Vitamin A, B Vitamins and Calcium Status of 8-10 year old Schoolchildren (Year 1 of 1) | 9/16/2011 | 9/15/2012 | FNRI | PCHRD | 2,596,567.00 |
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Program Total: **P 5,671,240.00**

Program Name: PHILIPPINE PHARMASEAS DRUG DISCOVERY PROGRAM

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|-----|------|----------------------------------------------------------------------------------------------------------------|-----------|-----------|---------|--------|------------|
| [9] | 3324 | Project 1. Marine Microorganisms and Turrids: Collection, Ecology and Biology and Bioinformatics (Year 3 of 3) | 4/15/2010 | 4/14/2011 | UPD-MSI | PCAMRD | 427,388.00 |
|-----|------|----------------------------------------------------------------------------------------------------------------|-----------|-----------|---------|--------|------------|

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| [10] | 3325 | Project 2. Marine Microorganisms: Characterization and Culture Optimization (Year 3 of 6) | 4/15/2010 | 4/14/2011 | UPD-NSRI | PCAMRD | 484,255.00 |
|------|------|-------------------------------------------------------------------------------------------|-----------|-----------|----------|--------|------------|

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| [11] | 3326 | Project 3. Marine Microorganisms: Chemistry, Bioassays, Drug Discovery and Development (Year 3 of 3) | 4/15/2010 | 4/14/2011 | UPD-MSI | PCAMRD | 1,068,537.00 |
|------|------|------------------------------------------------------------------------------------------------------|-----------|-----------|---------|--------|--------------|

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| [12] | 3327 | Project 4. Turrids: Biochemistry, Bioassays, Drug Discovery and Development (Year 3 of 6) | 4/15/2010 | 4/14/2011 | UPD-MSI | PCAMRD | 801,079.00 |
|------|------|-------------------------------------------------------------------------------------------|-----------|-----------|---------|--------|------------|

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| [13] | 3328 | Project 5. Marine Microorganisms and Turrids: Genetics, Molecular Phylogeny and Gene Expression (Year 3 of 6) | 4/15/2010 | 4/14/2011 | UPD-NIMBB | PCAMRD | 955,137.00 |
|------|------|---------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|--------|------------|

Program Total: **P 3,736,396.00**

Program Name: PREVENTION AND CONTROL OF LEPTOSPIROSIS IN THE PHILIPPINES

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| [14] | 4626 | Proj. 1 Identification of Prevalent Leptospiral Serovars in the Philippines (Year 1 of 1) | 8/1/2010 | 7/31/2011 | UPM-CPH | PCHRD | 1,222,117.00 |
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| [15] | 4627 | Proj. 2 A Study of the Environmental Determinants of Leptospirosis in Metro Manila Using Geographic Information System (Year 1 of 1) | 8/1/2010 | 7/31/2011 | UPM-CPH | PCHRD | 468,755.00 |
|------|------|--------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|---------|-------|------------|

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|------|------|-----------------------------------------------|----------|-----------|---------|-------|------------|
| [16] | 4632 | Proj. 3 Burden of Disease Study:Leptospirosis | 8/1/2010 | 7/31/2011 | UPM-CPH | PCHRD | 702,520.00 |
|------|------|-----------------------------------------------|----------|-----------|---------|-------|------------|

in an Urban Setting, Metro Manila (Year 1 of 1)

Program Total: **P 2,393,392.00**

Program Name: -None-

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|------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|---------|---------|--------------|
| [17] | 5154 | Characterization of Coconut Sap Sugar/Syrup as Functional Food (Year 1 of 1) | 1/1/2011 | 12/31/2011 | FNRI | PCIEERD | 4,504,188.00 |
| [18] | 4784 | Isolation, Purification, and Characterization of Proteins with Bioactive Peptides Exhibiting Anti-Hypertensive Activity from Winged Beans [Psophocarpus tetragonolobus (L.)DC] (Year 1 of 1) | 10/1/2010 | 9/30/2011 | UPLB-IC | PCHRD | 20,250.00 |
| [19] | 5395 | Stabilization of Rice Bran Using Microwave Volumetric Heating for Emulsion-Based Processed Meat (Year 1 of 1) | 8/1/2012 | 10/31/2012 | UPD-CHE | PCIEERD | 853,916.00 |
| [20] | 4084 | Transforming Acta Medica Philippina to be the National Health Science Journal (Year 3 of 3) | 5/1/2011 | 4/30/2012 | UPM | PCHRD | 2,188,977.00 |

Program Total: **P 7,567,331.00**

Group Total: **P 26,940,372.00**

RAPID, INCLUSIVE AND SUSTAINED ECONOMIC GROWTH

| Project Code | Title | Current Year | Implementing Agency | Monitoring Agency | CY 2011 Fund |
|--------------|-------|--------------|---------------------|-------------------|--------------|
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Program Name: 2011-2013 Philippine Taiwan Symposia on Analysis

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|-----|------|---------------------------------------------------------------------|----------|-----------|-----|------|------------|
| [1] | 5564 | Conduct of 9th Philippine-Taiwan Symposia on Analysis (Year 1 of 3) | 8/1/2011 | 7/31/2012 | UPD | NRCP | 564,800.00 |
|-----|------|---------------------------------------------------------------------|----------|-----------|-----|------|------------|

Program Total: **P 564,800.00**

Program Name: ACCELERATED SCIENCE AND TECHNOLOGY HUMAN RESOURCE DEVELOPMENT PROGRAM (ASTHRDP)

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|-----|------|---------------------------------------------------------------------------------------------------------|-----------|-----------|---------|------|----------------|
| [2] | 3006 | Accelerated Science and Technology Human Resource Development Program (Year 4 of 7) | 5/21/2010 | 5/20/2011 | SEI | NRCP | 125,796,721.00 |
| [3] | 5433 | Accelerated Science and Technology Human Resource Development Program - PCAMRD Component (Year 5 of 5) | 5/21/2011 | 5/20/2012 | PCAMRD | NRCP | 14,313,576.00 |
| [4] | 5436 | Accelerated Science and Technology Human Resource Development Program - PCARRD Component (Year 5 of 5) | 5/21/2011 | 5/20/2012 | PCARRD | NRCP | 2,201,252.00 |
| [5] | 5434 | Accelerated Science and Technology Human Resource Development Program - PCHRD Component (Year 5 of 5) | 5/21/2011 | 5/20/2012 | PCHRD | NRCP | 29,188,654.00 |
| [6] | 5437 | Accelerated Science and Technology Human Resource Development Program - PCIEERD Component (Year 5 of 5) | 5/21/2011 | 5/20/2012 | PCIEERD | NRCP | 10,879,718.00 |
| [7] | 5435 | Accelerated Science and Technology Human Resource Development Program - SEI Component (Year 5 of 5) | 5/21/2011 | 5/20/2012 | SEI | NRCP | 97,348,745.88 |

Program Total: **P 279,728,666.88**

Program Name: AFNR: ENHANCING THE DEMAND FOR AFNR GRADUATES THROUGH SCIENCE AND TECHNOLOGY

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|------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|----------------------------------|--------|------------|
| [8] | 3824 | Project 2.5. NEGOSYODYANTE: Enhancing the Employability and Entrepreneurial Capability of AFNR Graduates in Davao Region Through S&T (Year 2 of 2) | 1/1/2011 | 3/31/2011 | USeP | PCARRD | 98,745.40 |
| [9] | 3825 | Project 2.6. Harnessing UPLB's Capacity for Techno-Entrepreneurship and Technology Commercialization: Key to Better-Placed AFNR Graduates (Year 2 of 2) | 1/22/2011 | 7/21/2011 | UPLB | PCARRD | 0.00 |
| [10] | 3817 | Project 3.1.e. Harnessing UPLB's Capacity for Techno-Entrepreneurship & Technology Commercialization (Year 2 of 2) | 1/22/2011 | 7/21/2011 | UPLB | PCARRD | 146,000.00 |
| [11] | 3818 | Project 3.1.f. Capitalizing on Consortium Alliance in Strengthening Institutional Capability Towards Entrepreneurship and Increasing Enrolment and Employability of | 1/1/2011 | 6/30/2011 | CLSU (Central Luzon) CLARRDEC | PCARRD | 278,194.00 |

AFNR Students and Graduates in SUCs in
Regions II and III (Year 2 of 2)

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|------|------|------------------------------------------------------------------------------------------------------|----------|-----------|--------------|------------------|------------|
| [12] | 3822 | Project 3.1.i. Earn-Learn Resource Center Model in Promoting Entrepreneurship with S&T (Year 2 of 2) | 1/1/2011 | 6/30/2011 | DNSC (Davao) | PCAMRD PCARRD | 381,463.00 |
|------|------|------------------------------------------------------------------------------------------------------|----------|-----------|--------------|------------------|------------|

Program Total: P 904,402.40

Program Name: ANTIBODY BIOTECHNOLOGY AND MOLECULAR ONCOLOGY RESEARCH PROGRAM 2 (AMOR 2): PHARMACOKINETICS AND PHARMACODYNAMICS OF hCC49 IMMUNOLIPOSOME IN NUDE MICE

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|------|------|--------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|--------|-------|--------------|
| [13] | 4834 | Proj. 1 Generation of Recombinant Humanized Single-Chain Fv (scFv) Targeted to TAG72 for the Construction of Immunoliposomes (Year 1 of 2) | 5/1/2011 | 4/30/2012 | UPD-IC | PCHRD | 4,596,052.00 |
| [14] | 4835 | Proj. 2 Construction of Drug Immunoliposome (Year 1 of 2) | 5/1/2011 | 4/30/2012 | UPD-IC | PCHRD | 9,244,952.00 |

Program Total: P 13,841,004.00

Program Name: BIOTECHNOLOGY FOR SHRIMP: UTILIZING MOLECULAR TECHNOLOGIES TO ELUCIDATE SHRIMP IMMUNITY AND DEVELOP DISEASE DIAGNOSTICS METHODS

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|------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|-------|--------|--------------|
| [15] | 5424 | Proj. 4. Development of a Practical Heatblock Apparatus for Loop-Mediated Isothermal Amplification (LAMP) - Based Detection of Shrimp Pathogens (Year 1 of 2) | 6/1/2011 | 5/31/2012 | UST | PCAMRD | 1,788,524.00 |
| [16] | 4166 | Project 1. Molecular Diagnostics for Bacterial and Viral Diseases in Shrimp (Year 2 of 3) | 1/1/2011 | 12/31/2011 | UPV | PCAMRD | 364,248.00 |
| [17] | 4167 | Project 2. RNAi Technology to Elucidate Shrimp-Pathogen Interaction (Year 2 of 3) | 1/1/2011 | 12/31/2011 | UST | PCAMRD | 1,326,407.00 |
| [18] | 4168 | Project 3. Gene Expression Profiling of Pathogenic Virus "Resistant" Shrimp (Year 2 of 3) | 1/1/2011 | 12/31/2011 | NFRDI | PCAMRD | 1,073,861.97 |

Program Total: P 4,553,040.97

Program Name: Changing the Mindset: A Program on Building a Culture of Science and Advancing S&T Agenda for National Development

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|------|------|---------------------------------------------------------------------------------------------------------------|----------|-----------|------|------|---------------|
| [19] | 5607 | Project 1. Moving into a Comprehensive Information Site for the DOST System Via the 'science.ph (Year 1 of 2) | 8/1/2011 | 7/31/2012 | STII | NRCP | 3,028,400.00 |
| [20] | 5608 | Project 2. Information, Education, and Communication (IEC) Campaign Initiatives (Year 1 of 2) | 8/1/2011 | 7/31/2012 | STII | NRCP | 11,033,613.00 |

Program Total: P 14,062,013.00

Program Name: COMMUNITY-BASED FOOD PROCESSING TECHNOLOGY CENTER

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|------|------|----------------------------------------------------------------------|----------|-----------|---------------|------|------------|
| [21] | 5425 | Canton Noodles with Squash Production (Dumalag, Capiz) (Year 1 of 1) | 9/1/2012 | 1/17/2013 | CapSU (Capiz) | TAPI | 638,296.00 |
| [22] | 5432 | Fish Patis Production (Ivisan, Capiz) (Year 1 of 1) | 9/1/2011 | 8/31/2012 | CapSU (Capiz) | TAPI | 600,593.00 |
| [23] | 5431 | Processed Meat Production (Cuartero, Capiz) (Year 1 of 1) | 6/1/2011 | 5/31/2012 | CapSU (Capiz) | TAPI | 582,096.00 |

Program Total: P 1,820,985.00

Program Name: CONTINUING R&D INITIATIVES

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|------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------|---------|--------------|
| [24] | 5125 | Combating Double Burden Malnutrition Through Industry Driven R&D Programs Project 1. The Effect of FNRI Complementary Food Blend and Snack Foods on the Nutritional Status of 6 Months to 3 Years Old Children in the DOST Pinoy Intervention Strategy (Year 1 of 1) | 12/1/2010 | 11/30/2011 | FNRI | PCIEERD | 829,910.00 |
| [25] | 5129 | Development and Transfer of Appropriate Technology for Countryside Development (Year 1 of 1) | 1/1/2011 | 12/31/2011 | MIRDC | PCIEERD | 2,550,000.00 |
| [26] | 5141 | Development of Packaging Protocols for Irradiated Food Products (Year 1 of 1) | 1/1/2011 | 12/31/2011 | PNRI | PCIEERD | 1,026,876.00 |
| [27] | 5088 | ENHANCED S&T PROGRAM IN SUPPORT OF THE FOREST-BASED INDUSTRIES Project A. | 12/1/2010 | 11/30/2011 | FPRDI | PCIEERD | 1,649,800.00 |

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| | Material Science (Year 1 of 1) | | | | | | |
| [28] | 5090 ENHANCED S&T PROGRAM IN SUPPORT OF THE FOREST-BASED INDUSTRIES Project C. Furniture and Handicrafts (Year 1 of 1) | 12/1/2010 | 11/30/2011 | FPRDI | PCIEERD | 2,647,600.00 | |
| [29] | 5091 ENHANCED S&T PROGRAM IN SUPPORT OF THE FOREST-BASED INDUSTRIES Project D. Enhanced Technical Assistance Services Delivery to the Forest Based (Year 1 of 1) | 12/1/2010 | 11/30/2011 | FPRDI | PCIEERD | 2,500,000.00 | |
| [30] | 5171 Formulating the R&D Programs and Human Resource (HR) Development Plan of MIRDC Technology Roadmaps of the Metals and Engineering Sectors Through Technology and Training Needs Assessment (Year 1 of 1) | 1/1/2012 | 12/31/2012 | MIRDC | PCIEERD | 1,950,000.00 | |
| [31] | 5130 Multi-Functional Controlled-Release System Fragrance and Insect-Repellent Finish for Cellulosic Textiles (Year 1 of 1) | 1/1/2010 | 12/31/2011 | PTRI | PCIEERD | 2,473,032.00 | |
| [32] | 5132 Quality Control of Philippine Ethnic Foods Using Sensing Instrument - Characterization of Philippine Sauce (vinegar and soy sauce) and Discrimination Between Coffee Varieties (Year 1 of 1) | 1/1/2011 | 12/31/2011 | ITDI | PCIEERD | 3,616,000.00 | |
| [33] | 5133 Quality Control of Philippine Ethnic Foods Using Sensing Instrument Production of Plant Oils and Methyl Ester Using SCFE (Supercritical Fluid Extraction Methods) (Year 1 of 1) | 1/1/2012 | 6/30/2012 | ITDI | PCIEERD | 2,976,000.00 | |
| [34] | 5134 Quality Control of Philippine Ethnic Foods Using Sensing Instrument-Modification of Natural Zeolite as Replacement for STPP for Detergent Industry (Year 1 of 1) | 1/1/2011 | 12/31/2011 | ITDI | PCIEERD | 2,420,000.00 | |
| [35] | 5131 Rechargeable Biocidal Halamine-Grafted Natural Fiber-Based Textiles (Year 1 of 1) | 1/1/2010 | 12/31/2011 | PTRI | PCIEERD | 3,002,632.00 | |

Program Total: **P 27,641,850.00**

Program Name: Development of a Point-of-Care (POC) Diagnostic Testing Kit for Detecting Dengue Infections

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|------|----------------------------------------------------------------|------------|------------|-------------------|-------|--------------|--|
| [36] | 5162 Project 1: Production of Probe and Antigens (Year 1 of 3) | 11/17/2011 | 11/16/2012 | DOH - NCH SLMC | PCHRD | 3,325,052.00 | |
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Program Total: **P 3,325,052.00**

Program Name: ERDT: ENGINEERING RESEARCH AND DEVELOPMENT TECHNOLOGY PROGRAM

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| [37] | 3661 Alternative Technology for Processing of Laterite Ores: Fe-Ni Production (Year 3 of 3) | 1/1/2011 | 12/31/2011 | MSU-IIT | PCIERD | 624,598.00 | |
| [38] | 3662 Development of Biological and Ozonation Process as Treatment for Effluents of Distillery and Large Water Demand Industries (Year 3 of 3) | 10/1/2010 | 9/30/2011 | UPD-DCHE | PCIEERD | 394,975.00 | |
| [39] | 3007 Engineering Research and Development for Technology (ERDT)Human Resource Development Program (Year 4 of 6) | 6/1/2011 | 5/31/2012 | UP (System) | SEI | 153,828,808.00 | |
| [40] | 3996 ERDT:SoDERA: Development of Software-Defined Radio Platforms and Techniques for Enabling Next Generation Wireless Communication Networks (Year 3 of 3) | 6/1/2011 | 5/31/2012 | UPD-EEEE | PCASTRD | 1,863,334.00 | |
| | 3996 ERDT:SoDERA: Development of Software-Defined Radio Platforms and Techniques for Enabling Next Generation Wireless Communication Networks (Year 2 of 3) | 6/1/2010 | 5/31/2011 | UPD-EEEE | PCASTRD | 65,224.00 | |

Program Total: **P 156,776,939.00**

Program Name: ERDT: ENGINEERING RESEARCH AND DEVELOPMENT TECHNOLOGY PROGRAM - P100 Million

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| [41] | 4561 ERDT: Access Control for Collaborative Internet-Based Digital Content (Year 1 of 1) | 1/1/2011 | 12/31/2011 | UPD-EEEE | PCASTRD | 21,000.00 | |
| [42] | 4779 ERDT: Innovation and Design for Manufacturability of Microwave and Millimeter-wave Radio Modules Through Industry Collaboration (Year 2 of 3) | 6/1/2010 | 5/31/2011 | UPD-EEEE | PCASTRD | 61,763.00 | |
| | 4779 ERDT: Innovation and Design for Manufacturability of Microwave and Millimeter-wave Radio Modules Through Industry Collaboration (Year 3 of 3) | 6/1/2011 | 5/31/2012 | UPD-EEEE | PCASTRD | 2,356,866.00 | |

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|------|------|----------------------------------------------------------------------------------------------------|-----------|------------|----------|---------|-----------|
| [43] | 4560 | ERDT: LEAP Learning While Playing (Year 1 of 1) | 2/1/2011 | 1/31/2012 | UPD-EEEE | PCASTRD | 66,000.00 |
| [44] | 4782 | ERDT: Printable Solar Cell Device Couple with a Supercapacitor Energy Storage Device (Year 2 of 2) | 11/1/2010 | 10/31/2011 | ADMU | PCASTRD | 92,920.36 |

Program Total: P 2,598,549.36

Program Name: ERDT: Design and Interfacing for ERDT's Semiconductor and Electronics Track

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|------|------|-------------------------------------------------------|----------|-----------|----------|---------|--------------|
| [45] | 3862 | Project 1: ASIC and System Level Design (Year 3 of 3) | 3/1/2011 | 2/28/2012 | UPD-EEEE | PCASTRD | 1,135,533.00 |
| | 3862 | Project 1: ASIC and System Level Design (Year 2 of 3) | 3/1/2010 | 2/28/2011 | UPD-EEEE | PCASTRD | 268,004.00 |
| [46] | 3863 | Project 2. Interface Module Design (Year 2 of 3) | 3/1/2010 | 2/28/2011 | UPD-EEEE | PCASTRD | 287,912.00 |
| | 3863 | Project 2. Interface Module Design (Year 3 of 3) | 3/1/2011 | 2/28/2012 | UPD-EEEE | PCASTRD | 2,800,870.00 |
| [47] | 3864 | Project 3: High Speed PCB Design (Year 3 of 3) | 3/1/2011 | 2/28/2012 | UPD-EEEE | PCASTRD | 0.00 |
| | 3864 | Project 3: High Speed PCB Design (Year 2 of 3) | 3/1/2010 | 2/28/2011 | UPD-EEEE | PCASTRD | 420,302.00 |

Program Total: P 4,912,621.00

Program Name: ERDT: EYE C: Design of a Vision-Capable Microcontoller for a Mobile Robot Explorer -100M

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|------|------|----------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-------------|---------|--------------|
| [48] | 4562 | Project 1. Microcontroller Design for Micromouse Applications (Year 1 of 2) | 6/21/2010 | 6/20/2011 | UPD-EEEE | PCASTRD | 26,600.00 |
| [49] | 4563 | Project 2. CMOS Camera Interface for Color Tracking (Project 2. CCD Interface with Color to Monochrome Image Conversion) (Year 1 of 2) | 6/21/2010 | 6/20/2011 | USC | PCASTRD | 5,000.00 |
| | 4563 | Project 2. CMOS Camera Interface for Color Tracking (Project 2. CCD Interface with Color to Monochrome Image Conversion) (Year 2 of 2) | 6/21/2012 | 9/20/2012 | USC | PCASTRD | 1,959,340.00 |
| [50] | 4564 | Project 3. An 18-Bit Oversampling Audio Delta Sigma D/A Converter Design (Year 2 of 2) | 6/21/2012 | 9/20/2012 | MSU-IIT | PCASTRD | 1,953,738.00 |
| | 4564 | Project 3. An 18-Bit Oversampling Audio Delta Sigma D/A Converter Design (Year 1 of 2) | 6/21/2010 | 6/20/2011 | MSU-IIT | PCASTRD | 5,000.00 |
| [51] | 4565 | Project 4. Design of a High PSSR 2- Stage Operational Amplifier (Year 1 of 2) | 6/21/2010 | 6/20/2011 | MIT (MAPUA) | PCASTRD | 5,000.00 |
| | 4565 | Project 4. Design of a High PSSR 2- Stage Operational Amplifier (Year 2 of 2) | 6/21/2012 | 9/20/2012 | MIT (MAPUA) | PCASTRD | 1,973,430.00 |

Program Total: P 5,928,108.00

Program Name: ERDT: High Value Added Materials for the Semiconductor and Electronics Industry -100M

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|------|------|------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|-----------|---------|-----------|
| [52] | 3998 | Project 1. Modification of the Surface Properties of Polymer Materials by Plasma Treatment (Year 2 of 2) | 7/1/2011 | 12/31/2011 | UPD-DMMME | PCASTRD | 40,800.00 |
| [53] | 3999 | Project 2. Deposition of Superior Metallization Layers for the Semiconductor and Electronics Industry by Pulse Plating Technique (Year 2 of 2) | 7/1/2013 | 12/31/2011 | UPD-DMMME | PCASTRD | 21,800.00 |

Program Total: P 62,600.00

Program Name: ERDT: Information and Communication Technology (ICT) Track

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|------|------|---------------------------------------------------------------------------------------------------------|-----------|------------|---------|---------|------------|
| [54] | 4322 | ERDT: Towards a Context Aware Classification and Retrieval System of e-Learning Materials (Year 1 of 2) | 11/1/2010 | 10/31/2011 | UPD-DCS | PCASTRD | 583,638.00 |
|------|------|---------------------------------------------------------------------------------------------------------|-----------|------------|---------|---------|------------|

Program Total: P 583,638.00

Program Name: ERDT: Information and Communication Technology (ICT) Track - 100M

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|------|------|-------------------------------------------------------------------|-----------|-----------|---------|---------|------------|
| [55] | 4906 | Development of an Educational Data Mining Workbench (Year 1 of 3) | 3/1/2011 | 2/28/2012 | ADMU | PCIEERD | 100,000.00 |
| [56] | 3728 | ERDT: Information Visualization via Data Signatures (Year 2 of 2) | 4/14/2011 | 6/14/2011 | UPD-DCS | PCASTRD | 31,800.00 |

Program Total: P 131,800.00

Program Name: ERDT: Interdisciplinary Signal Processing for Pinoys (ISIP) Program

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|------|------|------------------------------------------------------------------------------------------------------------------------|-----------|-----------|----------|---------|--------------|
| [57] | 5381 | Project 6. Philippine Languages Database for Mother Tongue-Based Multilingual Education and Applications (Year 1 of 4) | 7/15/2011 | 7/14/2012 | UPD-EEEE | PCIEERD | 3,284,780.00 |
| [58] | 5382 | Project 7. Development of an English Language Training Software for Call Centers (Year 1 of 2) | 6/15/2011 | 6/14/2012 | UPD-EEEE | PCIEERD | 6,079,896.00 |

Program Total: P 9,364,676.00

Program Name: ERDT: Wind Power Generator System -100M

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|------|------|------------------------------------------------------------------------------------------------|----------|-----------|----------|---------|------------|
| [59] | 4907 | Project 1. Development of a Permanent Magnet Generator Speed Wind Turbine System (Year 1 of 2) | 3/1/2011 | 2/29/2012 | UPD-EEEE | PCIEERD | 80,600.00 |
| [60] | 4908 | Project 2. Power Electronics for Wind Power System (Year 1 of 2) | 3/1/2011 | 2/29/2012 | UPD-EEEE | PCIEERD | 92,540.00 |
| [61] | 4909 | Project 3. Development of Wind Turbine Emulator (Year 1 of 2) | 3/1/2011 | 2/29/2012 | UPD-EEEE | PCIEERD | 120,140.00 |

Program Total: P 293,280.00

Program Name: HIP: High Impact Program

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|------|------|-------------------------------------------------------------------------|-----------|-----------|-------|---------|--------------|
| [62] | 5397 | Capability Development for CNC Machine Tool Refurbishment (Year 1 of 2) | 5/15/2011 | 5/14/2012 | MIRDC | PCIEERD | 6,002,000.00 |
|------|------|-------------------------------------------------------------------------|-----------|-----------|-------|---------|--------------|

Program Total: P 6,002,000.00

Program Name: HITS: High-Impact Technology Solutions & Programs

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|------|------|------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------|---------|---------------|
| [63] | 5398 | Design and Development of Process Equipment for Food Processing Firms (Year 1 of 2) | 5/15/2011 | 5/14/2012 | ITDI | PCIEERD | 11,082,568.00 |
| [64] | 4903 | Development of a Prototype Automated Guide-way Transit (AGT) System (Year 1 of 2) | 5/1/2014 | 12/31/2014 | MIRDC | PCIEERD | 52,920,422.00 |
| [65] | 5396 | Development of Vacuum Gas Quench Heat Treatment Furnace (Formerly-Development of Vacuum Oil Quench Heat Treatment Furnace) (Year 1 of 2) | 7/1/2011 | 6/30/2012 | MIRDC | PCIEERD | 14,402,292.00 |

Program Total: P 78,405,282.00

Program Name: HITS: Development of Robust Tools for Managing Sardine Fisheries in the Philippines: Zamboanga Upwelling-Bohol Sea System

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|------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|------------|---------|--------------|
| [66] | 5615 | Project 1. Capturing the Dynamic Linkages Between Small Pelagic Fisheries and Primary Production through Satellite Images and Models for Better Resource Management in the Bohol Sea and Zamboanga Peninsula (Year 1 of 4) | 10/1/2011 | 9/30/2012 | UPD-MSI | PCAARRD | 9,614,080.00 |
| [67] | 5617 | Project 2. Sustaining the Sardine Fisheries Industry Through Understanding Spatio-temporal Dynamics in the Zamboanga Peninsula and Bohol Sea System (SarDyn) (Year 1 of 4) | 10/1/2011 | 9/30/2012 | MSU-Naawan | PCAARRD | 5,606,416.00 |
| [68] | 5627 | Project 3. Estimating Early Life Stage Mortality and Sources of Recruits (Year 1 of 4) | 10/1/2011 | 9/30/2012 | UPV | PCAARRD | 4,263,216.00 |

Program Total: P 19,483,712.00

Program Name: HITS: DOST O/L TRAP IN SCHOOLS NATIONWIDE

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|------|------|------------------------------------------------------------------------------------------------------------|----------|-----------|----------|-------|--------------|
| [69] | 5614 | Project 2: Deployment, Training and Monitoring of O/L Traps in School-Based OL Trap Roll-out (Year 1 of 1) | 4/1/2012 | 3/31/2013 | DOST-NCR | PCHRD | 7,432,599.75 |
|------|------|------------------------------------------------------------------------------------------------------------|----------|-----------|----------|-------|--------------|

Program Total: P 7,432,599.75

Program Name: HITS: NATIONAL MILKFISH R&D PROGRAM:Subprogram A. Enhancement of Milkfish Broodstock Management and Hatchery Practices for Production of Good Quality Fry

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|-----------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----|---------|------------------------|
| [70] | 5616 | Project 1. Improvement of Fry Quality in Milkfish (<i>Chanos chanos</i>) Through Refinement Practices for Production of Good Quality Fry (Year 1 of 4) | 10/1/2011 | 9/30/2012 | UPV | PCAARRD | 7,769,216.00 |
| [71] | 5618 | Project 2. Improvement of Milkfish Hatchery technology Through Food Enrichment and Bioencapsulation (Year 1 of 4) | 10/1/2011 | 9/30/2012 | UPV | PCAARRD | 7,597,012.00 |
| Program Total: | | | | | | | P 15,366,228.00 |

Program Name: HITS: NATIONAL MILKFISH R&D PROGRAM:Subprogram B. Improved Grow-out Technology for Sustainable Milkfish Industry

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|-----------------------|------|---------------------------------------------------------------------------------------------------------|-----------|-----------|-----|---------|------------------------|
| [72] | 5619 | Project 1. Improved Culture Management Practices for Milkfish in Ponds and Cages (Year 1 of 4) | 10/1/2011 | 9/30/2012 | UPV | PCAARRD | 6,336,224.00 |
| [73] | 5620 | Project 2. Improvement of Feed Formulation for Milkfish Culture in Ponds and Cages (Year 1 of 4) | 10/1/2011 | 9/30/2012 | UPV | PCAARRD | 5,679,544.00 |
| [74] | 5621 | Project 3. Evaluation of Culture Practices Towards the Control of Off-flavour in Milkfish (Year 1 of 4) | 10/1/2011 | 9/30/2012 | UPV | PCAARRD | 4,967,848.00 |
| [75] | 5622 | Project 4. Enhancement of Milkfish Culture Operations Through Mechanization (Year 1 of 4) | 10/1/2011 | 9/30/2012 | UPV | PCAARRD | 7,023,472.00 |
| Program Total: | | | | | | | P 24,007,088.00 |

Program Name: HITS: NATIONAL TILAPIA R&D PROGRAM:Subprogram A. Genetic Enhancement of the Red Nile Tilapia

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|-----------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|----------------------|---------|------------------------|
| [76] | 5623 | Project 1. Broodstock Development of Red Nile Tilapia (Year 1 of 4) | 11/1/2011 | 10/31/2012 | CLSU (Central Luzon) | PCAARRD | 2,872,402.00 |
| [77] | 5624 | Project 2. Hatchery and Culture Performance Evaluation of Red Nile Tilapia (Year 1 of 4) | 10/1/2011 | 9/30/2012 | CLSU (Central Luzon) | PCAARRD | 3,593,124.00 |
| [78] | 5626 | Project 3. Natural Carotenoids for Improved Growth, Body Composition, Feed Utilization, Immune Response, and Fecundity of RNT (formerly Increasing Commercial Value of Red Nile Tilapia using Natural Carotenoids Enriched Diets) (Year 1 of 4) | 10/1/2011 | 9/30/2012 | CLSU (Central Luzon) | PCAARRD | 4,724,092.00 |
| Program Total: | | | | | | | P 11,189,618.00 |

Program Name: HITS: NATIONAL TILAPIA R&D PROGRAM:Subprogram B. Innovative Approach to Nile Tilapia (*Oreochromis niloticus*) Culture

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|-----------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|----------------------|---------|------------------------|
| [79] | 5628 | Project 1. Phytoandrogen: An Alternative Natural Testosterone on Sex Inversion and its Effectiveness in the Monosex Culture of Nile Tilapia (Year 1 of 4) | 10/1/2011 | 9/30/2012 | CLSU (Central Luzon) | PCAARRD | 2,744,436.00 |
| [80] | 5629 | Project 2. Refinements in Grow-out and Hatchery Management of Nile Tilapia (Year 1 of 4) | 10/1/2011 | 9/30/2012 | CLSU (Central Luzon) | PCAARRD | 5,629,592.00 |
| [81] | 5630 | Project 3. Prebiotics and Probiotics in Tilapia Culture (Year 1 of 4) | 10/1/2011 | 9/30/2012 | CLSU (Central Luzon) | PCAARRD | 6,874,992.00 |
| [82] | 5631 | Project 4. Development of Comprehensive Geo Referenced Database for Ecological Risk Analyses in Tilapia Pond Culture (formerly Ecological Risk Analyses of Fish Pathogens Causing Fishkill Outbreaks in Tilapia Aquaculture in Pampanga through Establishment of Comprehensive Environmental Geo-referenced Database) (Year 1 of 4) | 11/1/2011 | 10/31/2012 | CLSU (Central Luzon) | PCAARRD | 6,992,344.00 |
| Program Total: | | | | | | | P 22,241,364.00 |

Program Name: HITS: SEAWEEEDS R&D PROGRAM: Sub-Program A. Culture Technology Enhancement to Improve Production Capacities of the Philippine Seaweed Farms

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|------|------|--------------------------------------------------------------------------------------------------------------|----------|------------|-----------|---------|--------------|
| [83] | 5632 | Project 1. Use of Branch and Spore Culture Technologies to Enhance Seaweed Production in Farms (Year 1 of 3) | 1/1/2012 | 12/31/2012 | UPD-MSI | PCAARRD | 6,165,750.00 |
| [84] | 5633 | Project 2. Micropropagation and | 1/1/2012 | 12/31/2012 | UPD-NIMBB | PCAARRD | 4,453,334.00 |

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|-------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|---------|------------------------------------------|-----------------------|-------------------------|
| | | Cyropreservation of Philippine Eucheumatoids (Year 1 of 3) | | | | | | |
| [85] | 5634 | Project 3. Mitigating Production Losses Due to Diseases and Epiphytes in Seaweed Farms (Year 1 of 3) | 1/1/2012 | 12/31/2012 | UPD-MSI | PCAARRD | | 3,737,276.00 |
| | | | | | | | Program Total: | P 14,356,360.00 |
| Program Name: HITS: SEAWEEEDS R&D PROGRAM: Sub-Program B. New and Improved Kappaphycus Varieties/Strains for Farming | | | | | | | | |
| [86] | 5635 | Project 1. Strain Development/Hybridization in Kappaphycus Utilizing Spores and Tissues (Year 1 of 4) | 10/1/2011 | 9/30/2012 | UPD-MSI | PCAARRD | | 1,927,924.00 |
| [87] | 5636 | Project 2. Generation of Novel Kappaphycus Varieties or Strains from Fused Protoplasts (Year 1 of 3) | 10/1/2011 | 9/30/2012 | UEP | PCAARRD | | 4,280,696.00 |
| [88] | 5637 | Project 3. Discrimination of Kappaphycus Varieties Using Genome-Wide Highly Polymorphic Markers (Year 1 of 2) | 10/1/2011 | 9/30/2012 | UPD-MSI | PCAMRD | | 2,653,174.00 |
| | | | | | | | Program Total: | P 8,861,794.00 |
| Program Name: HITS: SEAWEEEDS R&D PROGRAM: Sub-Program C. Novel Red Algal Poly-and Oligo-Sacharrides for Various Applications | | | | | | | | |
| [89] | 5638 | Project 1. Improvement of Seaweed Post-Harvest and Carrageenan Extraction Technology (Year 1 of 3) | 10/1/2011 | 9/30/2012 | UPD-MSI | PCAARRD | | 6,442,328.00 |
| [90] | 5639 | Project 2. Recombinant Production of Carrageenases and Agarases, and Production and Characterization of Oligocarrageenases and Oligoagars (Year 1 of 2) | 10/1/2011 | 9/30/2012 | UPD-MSI | PCAMRD | | 3,697,924.00 |
| [91] | 5640 | Project 3. Characterization and Development of New Red Algal Poly-and Oligo-sacharride (Year 1 of 3) | 10/1/2011 | 9/30/2012 | UPD-MSI | PCAARRD | | 2,722,708.00 |
| | | | | | | | Program Total: | P 12,862,960.00 |
| Program Name: IMPLEMENTATION OF THE SMALL AND MEDIUM ENTERPRISES TECHNOLOGY UPGRADING PROGRAM (SET-UP) | | | | | | | | |
| [92] | 621 | Implementation of the Small and Medium Enterprises Technology Upgrading Program (SET-UP) (Year 10) | 1/1/2011 | 12/31/2011 | DOST-RO | DOST-OUsec for Regional Operations | | 163,357,207.03 |
| | | | | | | | Program Total: | P 163,357,207.03 |
| Program Name: INTEGRATED AND SUSTAINABLE DEVELOPMENT PROGRAM FOR THE SHRIMP INDUSTRY | | | | | | | | |
| [93] | 5427 | Project 1. Development of Techniques for the Production of Good Quality Captive Penaeus monodon Broodstock and Spawners (Year 1 of 4) | 6/1/2011 | 5/31/2012 | UPV | PCAARRD | | 2,725,116.00 |
| [94] | 5429 | Project 2. Development of Sustainable and Environment-friendly Production Techniques for P. monodon (Year 1 of 4) | 6/1/2011 | 5/31/2012 | UPV | PCAARRD | | 10,113,948.00 |
| [95] | 5430 | Project 3. Handling Protocols and Value Chain Analysis for Fresh/Chilled/Frozen Penaeid Shrimps Reared in Commercial and Organic Culture (Year 1 of 3) | 6/1/2011 | 5/31/2012 | UPV | PCAMRD | | 5,797,780.00 |
| | | | | | | | Program Total: | P 18,636,844.00 |
| Program Name: INTEGRATED COCONUT RESEARCH AND DEVELOPMENT ENHANCEMENT PROGRAM (ICREDEP) | | | | | | | | |
| [96] | 4886 | Proj. 4. Development of an Integrated Pest Management Strategies Against Brontispa longissima (Gestro), an Invasive Pest of Coconut and Other Palm Species (Year 1 of 3) | 3/16/2011 | 3/15/2012 | DA-PCA | PCAARRD | | 964,406.00 |
| | | | | | | | Program Total: | P 964,406.00 |
| Program Name: MANAGEMENT OF TUNA FISHERIES IN THE PHILIPPINES | | | | | | | | |
| [97] | 4500 | Proj. 2. Genetic Stock Structures of Yellowfin (Thunnus albacares) and Big eye (Thunnus | 6/1/2011 | 5/31/2012 | NFRDI | PCAMRD | | 2,158,218.00 |

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|------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|-----|--------|--|--------------|
| | | obesus) Tunas in Philippines and Adjacent Waters (Year 2 of 3) | | | | | | |
| [98] | 4146 | Project 4. Technical Assessment of the Effects of Modifying Mesh Size and Net Depth on the Catch Composition and Size Structure of Tuna in Surrounding Nets (Year 2 of 3) | 6/1/2011 | 5/31/2012 | UPV | PCAMRD | | 1,669,106.31 |

Program Total: P 3,827,324.31

Program Name: MECO - TECO

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|-------|------|---------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|----------|---------|--|--------------|
| [99] | 5573 | Biotechnology-Assisted Development of Virus-Resistant Varieties and Populations of Squash for Climate Change Adaptation (Year 1 of 3) | 1/1/2012 | 12/31/2012 | UPLB-IPB | PCAARRD | | 876,098.00 |
| [100] | 5575 | Targeting Induced Lesions in Genome (Tilling) of Tomato for Multiple Virus Resistance (Year 1 of 3) | 9/16/2011 | 9/15/2012 | UPLB | PCAARRD | | 2,021,493.00 |

Program Total: P 2,897,591.00

Program Name: MICROARRAY-BASED RESEARCHES ON GENETIC SUSCEPTIBILITY TO DISEASES, GENE EXPRESSION PROFILING AND POPULATION VARIATIONS AMONG FILIPINOS

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|-------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|---------|-------|--|--------------|
| [101] | 2913 | Proj. 1 Identification of Disease Susceptible Genes in Filipino Subacute Sclerosing Panencephalitis Patients (formerly Collaborative Study on Subacute Sclerosing Panencephalities (SSPE): Candidate Gene Association Study with Responsiveness to Therapy) (Year 2 of 5) | 6/1/2011 | 5/31/2012 | UPM-NIH | PCHRD | | 2,328,396.90 |
| [102] | 3747 | Proj. 2 High Throughput Simultaneous Detection of Waterborne Parasitosis from Environmental Samples Using Microarray Technology (Year 2 of 3) | 3/1/2011 | 2/28/2012 | UPM-NIH | PCHRD | | 696,864.62 |
| [103] | 3748 | Proj. 3 Pan-Asian Single Nucleotide Polymorphism (SNP) Initiative (Year 1 of 3) | 6/1/2010 | 5/31/2011 | UPM-NIH | PCHRD | | 0.00 |
| [104] | 3749 | Proj. 4 The prevalence of CYP2D6 Gene Polymorphisms Among Filipinos and Their Use as Biomarkers for Cancer Risk for Those with Breast and Lung Cancer (Year 2 of 3) | 6/1/2011 | 5/30/2012 | UPM-NIH | PCHRD | | 70,500.00 |

Program Total: P 3,095,761.52

Program Name: Nanostructured Solar Energy Devices

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|-------|------|-----------------------------------------------------------------------------------|-----------|------------|---------|---------|--|------------|
| [105] | 4846 | Project 1. Nanostructures for Solar Cell Applications (Year 1 of 3) | 1/1/2011 | 12/31/2011 | UPD-NIP | PCIEERD | | 151,600.00 |
| [106] | 4847 | Project 2. Transparent Electrodes for Solar Cell Applications (Year 1 of 3) | 1/1/2011 | 12/31/2011 | UPD-NIP | PCIEERD | | 134,000.00 |
| [107] | 4849 | Project 3. GaAs-based Solar Cell Devices (Year 1 of 3) | 1/1/2011 | 12/31/2011 | UPD-NIP | PCIEERD | | 134,000.00 |
| [108] | 4852 | Project 4. Modification of Graphene for Nanostructured Photovoltaic (Year 1 of 3) | 1/1/2011 | 12/31/2011 | ADMU | PCIEERD | | 99,000.00 |
| [109] | 4853 | Project 5. Solar Cell Characterization Facility (Year 1 of 3) | 11/1/2011 | 12/31/2011 | UPD-NIP | PCASTRD | | 134,000.00 |

Program Total: P 652,600.00

Program Name: NATIONAL INTEGRATED BANANA R&D

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|-------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|-----------------------------|--------|--|--------------|
| [110] | 3852 | Project 1.2. Development of Dwarf Banana Cultivars (Saba and Cardaba) by Irradiation (Year 3 of 3) | 7/1/2011 | 6/30/2012 | UPLB-CA CSC | PCARRD | | 1,169,092.00 |
| | 3852 | Project 1.2. Development of Dwarf Banana Cultivars (Saba and Cardaba) by Irradiation (Year 2 of 3) | 7/1/2010 | 6/30/2011 | UPLB-CA CSC | PCARRD | | 552,966.00 |
| [111] | 3854 | Project 2.1. Adoption of S&T-based Integrated Crop Management (ICM) and Good Agricultural Practices (GAP) for Saba, Lakatan, and Latundan in Region 2 (Year 2 of 3) | 7/1/2010 | 6/30/2011 | ISU (Isabela) CSU (Cagayan) | PCARRD | | 289,696.00 |
| | 3854 | Project 2.1. Adoption of S&T-based Integrated Crop Management (ICM) and Good Agricultural Practices (GAP) for Saba, Lakatan, and Latundan in Region 2 (Year 3 of 3) | 7/1/2011 | 6/30/2012 | ISU (Isabela) CSU (Cagayan) | PCARRD | | 1,415,128.00 |

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|-------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|----------------------------------|--------|--------------|
| [112] | 3855 | Project 2.2. Adoption of S&T-based Integrated Crop Management (ICM) and Good Agricultural Practices (GAP) for Saba and Lakatan in Region 9 (Year 2 of 3) | 8/1/2010 | 7/31/2011 | DA-WESMIARC | PCARRD | 742,362.00 |
| | 3855 | Project 2.2. Adoption of S&T-based Integrated Crop Management (ICM) and Good Agricultural Practices (GAP) for Saba and Lakatan in Region 9 (Year 3 of 3) | 8/1/2011 | 7/31/2012 | DA-WESMIARC | PCARRD | 1,422,369.00 |
| [113] | 3856 | Project 2.3. Adoption of S&T-based Integrated Crop Management (ICM) and Good Agricultural Practices (GAP) in Saba/Cardaba and Lakatan in Region 11 (Year 3 of 3) | 8/1/2011 | 7/31/2012 | BPI-DNCRDC USeP | PCARRD | 1,430,053.00 |
| | 3856 | Project 2.3. Adoption of S&T-based Integrated Crop Management (ICM) and Good Agricultural Practices (GAP) in Saba/Cardaba and Lakatan in Region 11 (Year 2 of 3) | 8/1/2010 | 7/31/2011 | BPI-DNCRDC USeP | PCARRD | 245,600.00 |
| [114] | 3878 | Project 2.4. Adoption of S&T-based Integrated Crop Management (ICM) and Good Agricultural Practices (GAP) for Cardaba Banana in CARAGA Region (Year 3 of 3) | 7/1/2011 | 6/30/2012 | NORMISIST DA-CARIARC SNCAT | PCARRD | 878,132.00 |
| | 3878 | Project 2.4. Adoption of S&T-based Integrated Crop Management (ICM) and Good Agricultural Practices (GAP) for Cardaba Banana in CARAGA Region (Year 2 of 3) | 7/1/2010 | 6/30/2011 | NORMISIST DA-CARIARC SNCAT | PCARRD | 736,368.58 |
| [115] | 3881 | Project 2.5. Introduction and Adoption of Postharvest Handling Technologies of Lakatan and Latundan (Year 2 of 3) | 7/1/2010 | 6/30/2011 | UPLB | PCARRD | 593,784.00 |
| | 3881 | Project 2.5. Introduction and Adoption of Postharvest Handling Technologies of Lakatan and Latundan (Year 3 of 3) | 7/1/2011 | 6/30/2012 | UPLB | PCARRD | 856,254.00 |

Program Total: **P 10,331,804.58**

Program Name: NATIONAL R&D PROGRAM ON ORGANIC VEGETABLES

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|-------|------|------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|----------------------|--------|------------|
| [116] | 4926 | Project 4.3 Development of Pest Management Products and Systems for Organic Vegetables Production in Cagayan Valley (Year 1 of 3) | 2/1/2011 | 1/31/2012 | NVSU (Nueva Vizcaya) | PCARRD | 202,416.00 |
| [117] | 5087 | Project 4.5. Development of Pest Management Products and Systems for Organic Vegetables Production in Southern Luzon (Year 1 of 3) | 2/1/2011 | 1/31/2012 | UPLB | PCARRD | 150,048.00 |

Program Total: **P 352,464.00**

Program Name: NSTW & RELATED ACTIVITIES

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|-------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|-----------------------------------------------------|-----------------|--------------|
| [118] | 5224 | NSTW Documentation and Evaluation (Year 1 of 1) | 7/1/2011 | 12/31/2011 | PNRI DOST-OAsec for TechTrans | NRCP | 245,800.00 |
| [119] | 5225 | Committee on High Impact Projects Forum (Year 1 of 1) | 7/1/2011 | 12/31/2011 | ITDI DOST-OAsec for Special Concerns | NRCP | 130,458.00 |
| [120] | 5219 | Committee on Physical and ICT Logistics (Year 1 of 1) | 7/1/2011 | 12/31/2011 | MIRDC ASTI | NRCP | 130,078.00 |
| [121] | 5222 | Committee on Publicity and Promotion: ExpoScience 2011: The Philippine Science, Technology, and Engineering Exposition in Celebration of the 2011 NSTW Week (Year 1 of 1) | 7/1/2011 | 12/31/2011 | STII | NRCP | 3,889,510.75 |
| [122] | 5443 | Committee on Stakeholders Summit: S&T Stakeholders Summit (Year 1 of 1) | 7/1/2011 | 12/31/2011 | DOST-OUsec for Regional Operations PCIEERD | NRCP | 102,808.00 |
| [123] | 3948 | DOST's Grants to Outstanding Achievements in Science and Technology (Year 3 of 7) | 3/1/2011 | 2/28/2012 | NAST | NRCP PCASTRD | 1,997,439.00 |
| [124] | 5444 | Family Fun Run 2011: Takbo Para sa Siyensiya at Teknolohiya (Year 1 of 1) | 7/1/2011 | 12/31/2011 | PAGASA FNRI | NRCP | 410,000.00 |
| [125] | 5442 | Implementation of the Activities of the Committee on Opening and Closing Ceremonies for 2011 National Science and Technology Week Celebration (Year 1 of 1) | 7/1/2011 | 12/31/2011 | DOST | NRCP | 438,930.00 |
| [126] | 85 | Institutional Support for Trade and Exhibitions of DOST Technologies and Services Program (formerly DOST Technology Exposition and Fairs Program) (Year 11) | 1/1/2011 | 12/31/2011 | TAPI | DOST | 8,192,978.00 |
| [127] | 5221 | S&T Quiz Bee (Year 1 of 1) | 7/1/2011 | 12/31/2011 | PSHS | NRCP | 150,000.00 |

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|----------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|-------------|-------------------------------------------------------------------------------------------------------|-----------------------|------------------------|
| | | | | | | | Program Total: | P 15,688,001.75 |
| Program Name: Quality Control of Philippine Ethic Foods Using Sensing Instrument | | | | | | | | |
| [128] | 5135 | Synthesis of High Value Materials from Local Limestone (Year 1 of 1) | 1/1/2011 | 12/31/2011 | ITDI | PCIEERD | | 1,785,000.00 |
| | | | | | | | Program Total: | P 1,785,000.00 |
| Program Name: RSTL AND OTHER SUPPORT PROGRAM | | | | | | | | |
| [129] | 2891 | Rationalized Upgrading Project of DOST Regional Standards and Testing Laboratories (RSTLs) (Year 4 of 4) | 5/15/2010 | 5/14/2011 | DOST-RO | PCIERD | | 6,964,342.00 |
| | | | | | | | Program Total: | P 6,964,342.00 |
| Program Name: S&T Based Interventions to Address Malnutrition | | | | | | | | |
| [130] | 5106 | Project 3: Technology Generation for the Production of Multi-nutrient Growth Mix (Year 1 of 1) | 4/1/2011 | 3/31/2012 | FNRI | PCHRD | | 3,483,792.00 |
| | | | | | | | Program Total: | P 3,483,792.00 |
| Program Name: SUPPORT TO OTHER R&D PROGRAMS/PROJECTS | | | | | | | | |
| [131] | 5234 | Prototyping of Ceramic Water Filtration System: ceramic Pot Filter with Colloidal Silver (Year 1 of 1) | 4/7/2011 | 4/6/2012 | ITDI | PCIEERD | | 1,465,330.00 |
| | | | | | | | Program Total: | P 1,465,330.00 |
| Program Name: TECHNOLOGY INNOVATION FOR COMMERCIALIZATION (TECHNICOM) PROGRAM | | | | | | | | |
| [132] | 422 | Technology Innovation for Commercialization Program (Year 9) | 1/1/2011 | 12/31/2011 | DOST-RDI` s | TAPI PCAMRD PCARRD PCASTRD PCIERD PCHRD DOST-OUsec for R&D PCIEERD PCAARRD | | 65,772,413.61 |
| | | | | | | | Program Total: | P 65,772,413.61 |
| Program Name: -None- | | | | | | | | |
| [133] | 5266 | 99m Tc and 99m Tc Radiopharmaceuticals: Preparation and Quality Control for Nuclear Medicine Applications (Year 1 of 2) | 4/1/2011 | 3/31/2012 | PNRI | PCIEERD | | 19,728,224.00 |
| [134] | 4633 | A Web-based Interactive Genome Library for Surveillance, Detection, Characterization and Drug-Resistance Monitoring of Influenza Virus in the Philippines (Year 1 of 2) | 12/1/2010 | 11/30/2011 | UPM-NIH | PCHRD | | 1,723,350.00 |
| [135] | 5610 | Advocacy and Showcasing of Neo-Ethnic Textiles and Newly Developed Philippine Textile Tropical Fabrics (Year 1 of 1) | 9/12/2011 | 1/11/2012 | PTRI | PCIEERD | | 1,534,200.00 |
| [136] | 4793 | An Impact Study on Engineering and Science Education Project (Year 1 of 1) | 8/1/2010 | 7/31/2011 | NRCP | SEI | | 510,858.00 |
| [137] | 5404 | Capacity Building in Support of the Pilot Testing of the DOST Tablet Computers (Year 1 of 1) | 7/1/2012 | 6/30/2013 | ASTI | PCIEERD | | 14,793,000.00 |
| [138] | 3692 | Community-based Stock Enhancement of Trochus niloticus in Honda Bay, Palawan, Philippines (Year 3 of 3) | 12/1/2010 | 11/30/2011 | WPU | PCAMRD | | 1,078,361.00 |
| [139] | 4993 | Consultation/ Workshop on a Competitive Philippines in the ASEAN 2015 (Year 1 of 1) | 11/15/2010 | 5/14/2011 | NRCP | SEI | | 767,627.00 |
| [140] | 3588 | Determination of Genetic Stability of Tissue Culture-Derived Bananas var. `Lakatan` Plantlets Using Molecular Markers (Year 3 of 3) | 1/1/2012 | 12/31/2012 | USM | PCARRD | | 1,406,458.00 |
| [141] | 5735 | Development of a Micro Cupola for Foundry | 12/1/2011 | 11/30/2012 | MIRDC | PCIEERD | | 1,500,000.00 |

| | | Research, INstructions and Small Novelty Item Casting Production (Year 1 of 1) | | | BPSU (Bataan) | | | |
|-------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|-------------------------------|---------|--|---------------|
| [142] | 4920 | Development of Interactive Science and Mathematics Courseware for Secondary Level Schools (Year 1 of 3) | 6/1/2011 | 7/31/2011 | SEI ASTI | PCIEERD | | 12,637,252.00 |
| [143] | 3621 | Development/Improvement of Transport Packaging Technology for Non-Food Products (House Decors and Furniture) (Year 3 of 3) | 5/16/2012 | 10/15/2012 | ITDI | PCIERD | | 2,087,209.00 |
| | 3621 | Development/Improvement of Transport Packaging Technology for Non-Food Products (House Decors and Furniture) (Year 2 of 3) | 5/16/2010 | 5/15/2011 | ITDI | PCIERD | | 539,766.00 |
| [144] | 76 | DOST Human Resource Program (formerly DOST Staff Development Program) (Year 11) | 1/1/2011 | 12/31/2011 | SEI DOST-OAsec for ALFA | DOST | | 23,109,223.00 |
| [145] | 5155 | DOST Information Technology (IT) Enhancement Program (Year 1 of 2) | 2/16/2011 | 2/15/2012 | DOST-CO | PCIEERD | | 4,421,109.16 |
| [146] | 4768 | DOST-UP Enterprise Center for Technopreneurship(formerly 2g (2nd Generation) Technology Business Incubator) (Year 1 of 2) | 8/1/2011 | 7/31/2012 | UPD-NEC | PCASTRD | | 84,000.00 |
| | 4768 | DOST-UP Enterprise Center for Technopreneurship(formerly 2g (2nd Generation) Technology Business Incubator) (Year 2 of 2) | 8/1/2011 | 7/31/2012 | UPD-NEC | PCASTRD | | 2,022,472.00 |
| [147] | 3789 | Establishment of the DOST-PEZA Open Technology Business Incubator (TBI) (Year 2 of 2) | 2/1/2010 | 1/31/2011 | ASTI | PCASTRD | | 10,022.00 |
| [148] | 1172 | Evaluation of S&T Personnel of Non-DOST Agencies Under R.A. 8439 (Year 9) | 1/1/2011 | 12/31/2011 | DOST-OAsec for Internal Audit | DOST | | 455,844.00 |
| [149] | 4889 | High-Grade Ceramics Development Utilizing Kaolinite Clay Deposits From Ilocos Norte Province (Year 1 of 1) | 6/1/2011 | 5/31/2012 | MMSU | PCIEERD | | 7,614,392.00 |
| [150] | 4842 | Improvement of Exhibits and Facilities of the Philippine Science Heritage Center and Its Services - Phase II. Strengthening the Philippine Science Heritage Center as an Alternative Learning Institution for Science (Year 2 of 2) | 9/1/2012 | 12/31/2012 | NAST | SEI | | 3,452,921.00 |
| | 4842 | Improvement of Exhibits and Facilities of the Philippine Science Heritage Center and Its Services - Phase II. Strengthening the Philippine Science Heritage Center as an Alternative Learning Institution for Science (Year 1 of 2) | 9/1/2010 | 8/31/2010 | NAST | SEI | | 2,686,843.00 |
| [151] | 5105 | Mainstreaming DOST Gender and Development (GAD) Program for Gender Responsive S&T Planning and Technology Diffusion Services - Phase 2. (Year 1 of 3) | 1/1/2011 | 12/31/2011 | DOST-OAsec for TechTrans | NRCP | | 463,532.00 |
| [152] | 4791 | MicroEd North: Enhancing Microelectronics Education (Year 1 of 2) | 1/1/2011 | 12/31/2011 | UPD-EEEEI | PCIEERD | | 2,192,188.00 |
| [153] | 3503 | Mindanao Opportunities for Vitalized Education and Upgrading of Science (MOVE UPS) (Year 3 of 3) | 5/1/2010 | 4/30/2011 | SEI | PCASTRD | | 7,569,695.55 |
| [154] | 4843 | Nanostructured Ultrathin Films Based on Electrochemically Grafted Polymer Brushes (Year 1 of 2) | 2/1/2011 | 1/31/2012 | UPD-IC | PCASTRD | | 3,134,387.00 |
| [155] | 5169 | Novel Conducting Polyaniline - Synthetic Transition Metal Clay Nanocomposites (Year 1 of 1) | 5/1/2011 | 4/30/2012 | MMSU-Agribusiness Unit | PCIEERD | | 5,923,352.00 |
| [156] | 5413 | OYSI in Support of Filipinovation (Year 1 of 1) | 5/6/2011 | 5/5/2012 | OYSI | NRCP | | 1,399,716.00 |
| [157] | 5158 | Phase 2: ISO/IEC 17043:2010 Accreditation as Proficiency Test (PT) Provider for Credibility Improvement and International Recognition of FNRI Proficiency Test Program (Year 1 of 2) | 5/1/2011 | 4/30/2012 | FNRI | PCIEERD | | 2,000,000.00 |
| [158] | 5383 | Proactive Response to S&T Issues Towards a Progressive Philippines (Year 1 of 2) | 6/15/2011 | 6/14/2012 | NAST | NRCP | | 3,467,443.00 |
| [159] | 4915 | Project Management and Engineering Service Office (Year 1 of 6) | 10/21/2010 | 10/20/2011 | DOST | NRCP | | 5,912,857.00 |
| [160] | 4904 | Research Study on Low-Cost Computing Solutions for Primary Education - Phase I (Year 1 of 1) | 4/1/2011 | 7/31/2011 | ASTI | PCIEERD | | 496,500.00 |
| [161] | 5156 | Screening and Optimization of Conditions for the Local Production of Food Colorants from Microbial Cultures (Year 1 of 2) | 7/1/2011 | 6/30/2012 | UPLB | PCIEERD | | 1,000,000.00 |

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|-------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|-----------------------------|---------|--------------|
| [162] | 79 | Secretariat for the DOST- JSPS Joint Scientific Cooperation Program (Year 11) | 1/1/2011 | 12/31/2011 | DOST-OAsec for TechTrans | DOST | 1,269,205.00 |
| [163] | 154 | Secretariat to the Scientific Career Council Pursuant to Section 8 of E.O. 901 (Year 14 of 20) | 1/1/2011 | 12/31/2011 | NAST | NRCP | 988,348.00 |
| [164] | 3987 | Setting-Up of Processing Facilities for the Production of Flours Made from Root Crops, Cereals, Legumes and Vegetables (Year 2 of 2) | 8/16/2011 | 4/15/2012 | TRC | PCIERD | 68,513.67 |
| [165] | 586 | Strengthening and Maximizing Benefits for Bilateral and Multilateral Scientific Linkages (Year 9) | 1/1/2011 | 12/31/2011 | DOST-ITCU | NRCP | 5,021,911.00 |
| [166] | 4866 | Support for the Establishment of the DOST-UP Cebu Technology Business Incubator at the University of the Philippines Cebu (Year 1 of 2) | 1/1/2011 | 12/31/2011 | UPV | PCIERD | 5,273,898.00 |
| [167] | 4770 | Support for the Establishment of UPLB-TBI (formerly Establishment of the Knowledge Enterprise Incubation Center (KEICEN) at the UPLB Science and Technology Park) (Year 1 of 2) | 1/6/2011 | 1/5/2012 | UPLB | PCASTRD | 75,600.00 |
| [168] | 142 | Support for the Implementation of the Balik Scientist Program (BSP) Pursuant to Executive Order No. 130 dated 10-25-93 (Year 12) | 1/1/2011 | 12/31/2011 | PCHRD PCIEERD PCAARRD | NRCP | 8,793,289.05 |
| [169] | 127 | Support to the Management of the DOST-GIA Program (Year 12) | 1/1/2011 | 12/31/2011 | DOST-SPD | NRCP | 4,226,021.00 |
| [170] | 4919 | Support to the Operations of the Filipinnovation Network - Phase 2 (Year 1 of 1) | 1/1/2011 | 8/9/2011 | DOST-PES | TAPI | 463,895.00 |
| [171] | 4981 | Support to the Philippine eLib Project (Year 1 of 1) | 11/16/2010 | 5/15/2011 | STII | PCIEERD | 328,570.00 |
| [172] | 3377 | Support to the Presidential Committee Implementing PD 997 (Year 4 of 10) | 1/1/2011 | 12/31/2011 | SEI | NRCP | 414,435.00 |
| [173] | 4635 | Towards an Innovation-Led Development Path in the Philippines (Year 1 of 2) | 4/19/2010 | 4/18/2011 | DOST-OUsec for S&T | NRCP | 849,688.00 |
| | 4635 | Towards an Innovation-Led Development Path in the Philippines (Year 2 of 2) | 10/19/2011 | 1/18/2012 | DOST-OUsec for S&T | NRCP | 197,050.00 |
| [174] | 5762 | Use of Microbial Biofilms for the Rehabilitation of Heavy Metal Contaminated Wastewater (Year 1 of 2) | 2/15/2012 | 2/14/2013 | UPLB-IBS | PCIEERD | 1,725,151.00 |

Program Total: **P 165,418,376.43**

Group Total: **P 1,211,996,289.59**

INTEGRITY OF THE ENVIRONMENT AND CLIMATE CHANGE MITIGATION AND ADAPTATION

| Project Code | Title | Current Year | Implementing Agency | Monitoring Agency | CY 2011 Fund | | |
|---------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------|----------------------|--------|--------------|
| Program Name: APPLICATION OF BIOTECHNOLOGY ON GROWTH AND HEALTH MANAGEMENT OF NILE TILAPIA AND PACIFIC WHITE SHRIMP | | | | | | | |
| [1] | 3969 | Proj. 1. Mining of Single Nucleotide Polymorphisms (SNPs) in the Genes of Cultured Nile Tilapia, <i>Oreochromis niloticus</i> , and Pacific White Shrimp, <i>Penaeus vannamei</i> , Associated with Resistance Against Viral Diseases (Year 3 of 3) | 5/1/2011 | 4/30/2012 | CLSU (Central Luzon) | PCAMRD | 950,401.00 |
| [2] | 3970 | Proj. 2. Serotyping of Freshwater Fish Bacterial Pathogens for Vaccine Development (Year 3 of 3) | 5/1/2011 | 4/30/2012 | CLSU (Central Luzon) | PCAMRD | 891,642.00 |
| [3] | 3971 | Proj. 3. Insulin-Like Growth Factor-1 as a Growth Indicator in Tilapia (Year 3 of 3) | 5/1/2011 | 4/30/2012 | CLSU (Central Luzon) | PCAMRD | 1,042,792.00 |
| [4] | 4557 | Project.4 Development of Fish Oral Vaccines Coupled with a Nanocomposite Biomaterial as a carrier for Vaccine Delivery (Year 2 of 2) | 8/1/2011 | 7/31/2012 | UPD | PCAMRD | 1,061,222.00 |
| | 4557 | Project.4 Development of Fish Oral Vaccines Coupled with a Nanocomposite Biomaterial as a carrier for Vaccine Delivery (Year 1 of 2) | 8/1/2010 | 7/31/2011 | UPD | PCAMRD | 876,109.00 |
| Program Total: P 4,822,166.00 | | | | | | | |

Program Name: AUTOMATED RAPID REEF ASSESSMENT SYSTEM

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|-----------------------|------|--------------------------------------------------------------------------------|----------|-----------|---------|---------|-----------------------|
| [5] | 4586 | Project 1. Multisensor Reef Assessment (MSRA) (Year 1 of 3) | 5/1/2010 | 4/30/2011 | UPD-NIP | PCASTRD | 441,986.00 |
| [6] | 4576 | Project 2. Computerized Reef Assessment and Visualization (CRAV) (Year 1 of 3) | 5/1/2010 | 4/30/2011 | UPD-NIP | PCASTRD | 613,720.00 |
| | 4576 | Project 2. Computerized Reef Assessment and Visualization (CRAV) (Year 2 of 3) | 5/1/2011 | 4/30/2012 | UPD-NIP | PCASTRD | 3,544,758.00 |
| Program Total: | | | | | | | P 4,600,464.00 |

Program Name: BASIC RESEARCH PROGRAM

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|-----------------------|------|------------------------------------------------------------------------------------------------------------------------------|----------|-----------|-----------|--------|--------------------|
| [7] | 4277 | Morphological, Histological and Ultrastructural Characterization of Indigenous Heavy Metal Accumulating Plants (Year 2 of 2) | 9/1/2010 | 8/31/2011 | UPLB-CFNR | PCARRD | 76,608.00 |
| Program Total: | | | | | | | P 76,608.00 |

Program Name: BIODIESEL FEEDSTOCK PRODUCTION FROM FRESHWATER MICRO ALGAE

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|-----------------------|------|-------------------------------------------------------------------------------------|----------|------------|------|--------|---------------------|
| [8] | 3972 | Proj. 1. Mass Cultivation of Freshwater Micro Algae (Year 2 of 3) | 7/1/2010 | 6/30/2011 | UPLB | PCAMRD | 197,600.00 |
| [9] | 3973 | Proj. 2. Enhancing Oil Production in Potential Species of Micro Algae (Year 2 of 3) | 7/1/2010 | 12/31/2010 | ADMU | PCAMRD | 0.00 |
| Program Total: | | | | | | | P 197,600.00 |

Program Name: BIODIESEL PRODUCTION FROM MARINE MICRO ALGAE AND SEAWEEDES (Dictyota spp)

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|-----------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|-----|--------|-----------------------|
| [10] | 3975 | Proj. 2. Establishment of Extraction and Conversion Protocols to Maximize By-Product Utilization and Improve Fuel Quantity (Year 3 of 3) | 5/1/2011 | 4/30/2012 | UPV | PCAMRD | 0.00 |
| | 3975 | Proj. 2. Establishment of Extraction and Conversion Protocols to Maximize By-Product Utilization and Improve Fuel Quantity (Year 2 of 3) | 5/1/2010 | 4/30/2011 | UPV | PCAMRD | 964,228.15 |
| [11] | 3976 | Proj. 3. Manipulation of Culture Techniques to Increase Lipid Content and Establish Effective Protocols/ Structures for Mass Production (Year 3 of 3) | 5/1/2011 | 4/30/2012 | UPV | PCAMRD | 0.00 |
| | 3976 | Proj. 3. Manipulation of Culture Techniques to Increase Lipid Content and Establish Effective Protocols/ Structures for Mass Production (Year 2 of 3) | 5/1/2010 | 4/30/2011 | UPV | PCAMRD | 750,400.34 |
| [12] | 3977 | Proj. 4. Environmental Risk Assessment Studies (Year 2 of 3) | 5/1/2010 | 4/30/2011 | UPV | PCAMRD | 730,972.31 |
| | 3977 | Proj. 4. Environmental Risk Assessment Studies (Year 3 of 3) | 5/1/2011 | 4/30/2012 | UPV | PCAMRD | 0.00 |
| Program Total: | | | | | | | P 2,445,600.80 |

Program Name: CONTINUING R&D INITIATIVES

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|------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------|---------|--------------|
| [13] | 5142 | Assessment of Air Particulate Lead Sources in Valenzuela, Metro Manila by Nuclear Analytical Techniques and Receptor Modeling (Year 1 of 1) | 1/1/2011 | 12/31/2011 | PNRI | PCIEERD | 1,000,000.00 |
| [14] | 5140 | Assessment of Technologically Enhanced Naturally-Occurring Radioactive Materials in Marine Biota from Selected Bodies of Water: Lingayen Gulf, Batangas Bay, and Dupong Bay (Year 1 of 1) | 1/1/2011 | 12/31/2011 | PNRI | PCIEERD | 1,073,124.00 |
| [15] | 5127 | Combating Double Burden Malnutrition Through Industry Driven R&D Programs Project 3. Development of Potential Functional Food Products (Year 1 of 1) | 12/1/2010 | 11/30/2011 | FNRI | PCIEERD | 1,493,027.00 |
| [16] | 5128 | Combating Double Burden Malnutrition Through Industry Driven R&D Programs Project 4. Efficacy Study on Root Crops as Functional Food (Year 1 of 1) | 12/1/2010 | 11/30/2011 | FNRI | PCIEERD | 1,392,893.00 |
| [17] | 5089 | ENHANCED S&T PROGRAM IN SUPPORT OF THE FOREST-BASED INDUSTRIES Project B. Green Construction and Utilities (Year 1 of 1) | 12/1/2010 | 11/30/2011 | FPRDI | PCIEERD | 1,400,000.00 |
| [18] | 5092 | ENHANCED S&T PROGRAM IN SUPPORT OF THE FOREST-BASED INDUSTRIES Project E. Green Production Technology for the Forest - | 12/1/2010 | 11/30/2011 | FPRDI | PCIEERD | 1,205,000.00 |

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|------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|----------|---------|--|--------------|
| | Based Industries (Year 1 of 1) | | | | | | |
| [19] | 4441 Enhancement of the Philippine Seismic Network (Year 1 of 1) | 3/1/2010 | 2/28/2011 | PHIVOLCS | PCIERD | | 50,000.00 |
| [20] | 5157 Maintenance and Improvement of the Philippine Volcano Observatories (Year 1 of 1) | 4/1/2011 | 3/31/2012 | PHIVOLCS | PCIEERD | | 5,600,000.00 |
| [21] | 5152 MANAGEMENT COMPETENCIES: Enhancement of Weather Climate and Flood Data Information in Support to Climate Change Adaptation (Year 1 of 1) | 3/14/2012 | 9/13/2012 | PAGASA | PCIEERD | | 5,300,000.00 |
| [22] | 4439 Strengthening of Meteorological and Hydrological Activities in Support to Climate Change in the Philippines (Year 1 of 1) | 1/1/2010 | 12/31/2010 | PAGASA | PCIERD | | 2,250,000.00 |

Program Total: **P 20,764,044.00**

Program Name: DATABASE AND SYSTEMS BIOLOGY FOR SELECTED PLANTS AND ASSOCIATED ARTHROPODS FOUND IN THE FOUR SUBCATCHMENTS OF MT. ISAROG NATIONAL PARK (MINP)

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|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|------|---------|--|--------------|
| [23] | 3929 Project 2. Multimodal Database and Analysis for Data Acquisition and Systems Biology (Year 3 of 3) | 4/1/2012 | 9/30/2012 | ADNU | PCASTRD | | 1,137,476.00 |
| | 3929 Project 2. Multimodal Database and Analysis for Data Acquisition and Systems Biology (Year 2 of 3) | 4/1/2010 | 3/31/2011 | ADNU | PCASTRD | | 293,104.00 |
| [24] | 3930 Project 3. Chromatographic and Spectrophotometric Profiling and Chemical Marker Identification of Selected Plants and Associated Arthropods of Interest (Year 3 of 3) | 4/1/2012 | 9/30/2012 | UPM | PCASTRD | | 994,901.00 |
| | 3930 Project 3. Chromatographic and Spectrophotometric Profiling and Chemical Marker Identification of Selected Plants and Associated Arthropods of Interest (Year 2 of 3) | 4/1/2010 | 3/31/2011 | UPM | PCASTRD | | 252,152.00 |
| [25] | 3944 Project 4. Protein Profiling and Genomic Studies of Selected Plants and their Responses to Associated Arthropods in Mt. Isarog National Park (MINP) (Year 3 of 3) | 4/1/2012 | 9/30/2012 | ADNU | PCASTRD | | 2,104,756.00 |
| | 3944 Project 4. Protein Profiling and Genomic Studies of Selected Plants and their Responses to Associated Arthropods in Mt. Isarog National Park (MINP) (Year 2 of 3) | 4/1/2010 | 3/31/2011 | ADNU | PCASTRD | | 364,252.00 |

Program Total: **P 5,146,641.00**

Program Name: Ecology and Oceanography of Harmful Algal Blooms (HABs) in the Philippines (PhilHAB)

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|------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|---------|--------|--|--------------|
| [26] | 3758 Project 1. Biodiversity/ Genetic Diversity of Selected HAB-forming Species in the Philippines (Year 3 of 3) | 2/1/2011 | 1/31/2012 | UPD-MSI | PCAMRD | | 2,450,507.00 |
| [27] | 3759 Project 2. Microbial Community (HAB Species and Associated Bacteria) (Year 3 of 3) | 2/1/2011 | 1/31/2012 | UPD-MSI | PCAMRD | | 2,174,931.00 |
| [28] | 3760 Project 3. Toxinology and Toxicology of Philippine Harmful Algal Blooms (HAB) Species (Year 3 of 3) | 2/1/2011 | 1/31/2012 | UPD-MSI | PCAMRD | | 2,682,726.00 |
| [29] | 3761 Project 4. Fish Kills, Algal Blooms and Eutrophication in the Tropics (Year 3 of 3) | 2/1/2011 | 1/31/2012 | UPD-MSI | PCAMRD | | 1,993,726.00 |
| [30] | 3762 Project 5. Eutrophication, Climate and Algal Blooms in the Tropics (Year 3 of 3) | 2/1/2011 | 1/31/2012 | UPD-MSI | PCAMRD | | 2,313,051.00 |
| [31] | 3763 Project 6. Historical Sedimentation Rate and Radiometric Finger Printing of Suspended Sediment in Selected HAB Areas (Year 3 of 3) | 2/1/2011 | 1/31/2012 | PNRI | PCAMRD | | 3,597,282.00 |
| [32] | 3764 Project 7. Stratification and Algal Blooms in the Tropics (Year 3 of 3) | 2/1/2011 | 1/31/2012 | UPD-MSI | PCAMRD | | 3,747,594.00 |
| [33] | 3765 Project 8. Harmful Algal Bloom Mitigation in the Tropics (Year 3 of 3) | 2/1/2011 | 1/31/2012 | UPD-MSI | PCAMRD | | 3,222,952.00 |

Program Total: **P 22,182,769.00**

Program Name: ENHANCEMENT OF PAGASA WEATHER SURVEILLANCE RADAR NETWORK FOR NOWCASTING AND EARLY WARNING SYSTEM OF WEATHER RELATED HAZARDS AND DISASTER

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|------|--------------------------------------------------------------------------------------------------------------------------------|----------|-----------|--------|--------|--|------------|
| [34] | 3602 Project 3. Establishment of Doppler Weather Radar Network to Support Socio-Economic Development in Mindanao (Year 2 of 3) | 2/1/2012 | 1/31/2012 | PAGASA | PCIERD | | 351,445.00 |
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|------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|--------|--------|--------------|
| [35] | 3606 | Project 4. Enhancement of Weather and Climate Monitoring in Cebu and the Visayas Region (Year 2 of 3) | 2/1/2011 | 1/31/2012 | PAGASA | PCIERD | 1,434,187.00 |
| [36] | 3608 | Project 6. Enabling Communities for the Adoption of Disaster Prevention and Preparedness Measures for Areas Prone to Floods and Rain-induced Landslides-GOP Counterpart-JICA GOP Counterpart (Year 2 of 3) | 2/1/2011 | 1/31/2012 | PAGASA | PCIERD | 2,036,300.00 |

Program Total: P 3,821,932.00

Program Name: ERDT: ENGINEERING RESEARCH AND DEVELOPMENT TECHNOLOGY PROGRAM

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|------|------|--------------------------------------------------------------------------------------|----------|-----------|------|--------|------------|
| [37] | 3504 | Photocatalytic Treatment of Colored Wastewater from Textile Industries (Year 3 of 3) | 5/1/2010 | 4/30/2011 | DLSU | PCIERD | 192,340.00 |
|------|------|--------------------------------------------------------------------------------------|----------|-----------|------|--------|------------|

Program Total: P 192,340.00

Program Name: ERDT: BETTER MINE

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|------|------|------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|-----------|--------|--------------|
| [38] | 3785 | Project A. Development of Nanofiber Membrane with Modified Nanoclay for Wastewater Treatment (Year 3 of 3) | 6/1/2011 | 5/31/2012 | UPD-DMMME | PCIERD | 1,253,496.40 |
| [39] | 3788 | Project B. Development and Testing of Coco Peat Filter Bed for Treatment of Heavy Metals (Year 3 of 3) | 6/1/2012 | 9/30/2012 | UPD-DCE | PCIERD | 806,701.00 |
| [40] | 3791 | Project D. Alternative Method to Amalgamation and Cyanidation for the Recovery of Gold (Year 3 of 3) | 6/1/2012 | 4/30/2013 | UPD-DMMME | PCIERD | 73,022.00 |
| | 3791 | Project D. Alternative Method to Amalgamation and Cyanidation for the Recovery of Gold (Year 2 of 3) | 6/1/2010 | 5/31/2011 | UPD-DMMME | PCIERD | 40,038.00 |
| [41] | 3792 | Project E. Development of Philippine Montmorillonite Purification Technique for Nanocomposite Application (Year 2 of 3) | 6/1/2010 | 5/31/2011 | UPD-DMMME | PCIERD | 78,597.00 |
| | 3792 | Project E. Development of Philippine Montmorillonite Purification Technique for Nanocomposite Application (Year 3 of 3) | 3/1/2013 | 5/31/2013 | UPD-DMMME | PCIERD | 1,428,597.00 |
| [42] | 3793 | Project F. Life Cycle Analysis for Small-scale Production Systems: Case of Gold (Year 3 of 3) | 6/1/2011 | 5/31/2012 | UPD-IED | PCIERD | 828,006.00 |
| | 3793 | Project F. Life Cycle Analysis for Small-scale Production Systems: Case of Gold (Year 2 of 3) | 6/1/2010 | 5/31/2011 | UPD-IED | PCIERD | 142,004.00 |
| [43] | 3795 | Project G. Assessing Biosorption Performance of Water hyacinth (E. Crassipes) and Other Aquatic Plants in Cleaning Mine Tailings (Year 2 of 3) | 6/1/2010 | 5/31/2011 | ADMU | PCIERD | 38,967.00 |
| | 3795 | Project G. Assessing Biosorption Performance of Water hyacinth (E. Crassipes) and Other Aquatic Plants in Cleaning Mine Tailings (Year 3 of 3) | 6/1/2011 | 5/31/2012 | ADMU | PCIERD | 482,564.00 |

Program Total: P 5,171,992.40

Program Name: ERDT: High Value Added Materials for the Semiconductor and Electronics Industry -100M

| | | | | | | | |
|------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|-----------|---------|-----------|
| [44] | 4000 | Project 3. Nanomaterials from Indigenous Sources for the Semiconductor and Electronics Industry: Fabrication of Philippine Nanoclay/Polymer Composite as Thermally Conducting Material (Year 2 of 2) | 7/1/2011 | 12/31/2011 | UPD-DMMME | PCASTRD | 26,800.00 |
|------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|-----------|---------|-----------|

Program Total: P 26,800.00

Program Name: ERDT: Surveys and Measurement Technologies for Flood Mitigation, Control and Management Systems

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|------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|---------|---------|---------------|
| [45] | 4929 | Project 3. Modeling of Flashflood Events by Integrated GIS and Hydrological Simulations (Year 1 of 2) | 4/1/2011 | 3/31/2012 | UPD-DGE | PCIEERD | 9,551,436.00 |
| [46] | 4917 | Project 4. Development of Geospatial Analysis Tools for Catchment Runoff Responses to Extreme Rainfall Events and Applications for Disaster and Environmental Management | 4/1/2012 | 3/31/2013 | UPD-DGE | PCIEERD | 15,811,236.00 |

Program Total: **P 25,362,672.00**

Program Name: ERDT: TAMER - Tactical Maps for Environmental Risk Management Program - 100M

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|------|------|------------------------------------------------------------------------------------------|-----------|-----------|------|---------|------------|
| [47] | 3865 | Rain Monitoring and Alarm System Using Hybrid Wireless Networks as Sensors (Year 2 of 3) | 9/15/2011 | 9/14/2012 | ADMU | PCASTRD | 470,223.39 |
| | 3865 | Rain Monitoring and Alarm System Using Hybrid Wireless Networks as Sensors (Year 1 of 3) | 9/15/2010 | 9/14/2011 | ADMU | PCASTRD | 295,060.00 |

Program Total: **P 765,283.39**

Program Name: FISH ARK PHILIPPINES: DIRECTION FOR THE CONSERVATION OF NATIVE AND ENDEMIC PHILIPPINE FRESHWATER FISHES

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|------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|----------|--------|------------|
| [48] | 4175 | Proj. 3 Biochemical and Cytogenetics Profile of Selected Native and Endemic Philippine Fresh Water Fishes (Year 2 of 2) | 5/1/2011 | 4/30/2012 | UPLB | PCAMRD | 879,845.00 |
| [49] | 3594 | Project 1. Survey of Diminutive and Endemic Philippine Freshwater Fishes Indigenous to Isolated Crater Lakes, Mountain Streams and Cataracts in southern Luzon, Philippines (Year 3 of 3) | 8/1/2010 | 7/31/2011 | UPLB-IBS | PCAMRD | 152,436.00 |
| [50] | 3598 | Project 2. Captive Breeding of Native and Endemic Freshwater Fish Species (Year 3 of 3) | 8/1/2010 | 7/31/2011 | UPLB-IPB | PCAMRD | 277,544.00 |
| [51] | 3784 | Project 4. Isolation and Characterization of Microsatellites in Selected Native and Endemic Philippine Freshwater Fish Species (Year 2 of 3) | 2/16/2010 | 2/15/2011 | UPLB-IBS | PCAMRD | 587,667.00 |
| | 3784 | Project 4. Isolation and Characterization of Microsatellites in Selected Native and Endemic Philippine Freshwater Fish Species (Year 3 of 3) | 2/16/2011 | 2/15/2012 | UPLB-IBS | PCAMRD | 786,564.73 |

Program Total: **P 2,684,056.73**

Program Name: HARNESSING BIOTECH MICROBIAL STRAINS FOR BIOETHANOL PRODUCTION FROM ALTERNATIVE SUBSTRATES

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|------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|------------|--------|--------------|
| [52] | 4124 | Project 1. Evaluation, Validation and Business Analysis of Ethanol Production from Alternative Substrates using BIOTECH Yeast Strains (Year 2 of 2) | 8/1/2010 | 7/31/2011 | UPLB-NIMBB | PCIERD | 44,476.00 |
| [53] | 4125 | Project 2. Improvement of Yeast Strains for Industrial Ethanol Production (Year 2 of 2) | 8/1/2010 | 7/31/2011 | UPLB-NIMBB | PCIERD | 78,354.00 |
| [54] | 4126 | Project 3. High-Cell Density Ethanol Fermentation from Appropriate Feedstock Materials Using Selected Yeast and Zymomonas Strains (Year 2 of 2) | 8/1/2011 | 12/31/2011 | UPLB-NIMBB | PCIERD | 1,181,733.00 |
| [55] | 4128 | Project 4. Evaluation of Pollution Potential of the Sweet Sorghum (Year 2 of 2) | 8/1/2010 | 7/31/2011 | UPLB-NIMBB | PCIERD | 86,634.00 |

Program Total: **P 1,391,197.00**

Program Name: ICT FOR THE ENVIRONMENT PROGRAM: R&D ON SOLUTIONS, APPLICATIONS, AND INFRASTRUCTURE

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|------|------|-------------------------------------------------------------|----------|------------|------|---------|--------------|
| [56] | 3323 | Development of Field Monitoring (FMON) System (Year 2 of 2) | 1/1/2011 | 12/31/2011 | ASTI | PCASTRD | 2,121,651.00 |
|------|------|-------------------------------------------------------------|----------|------------|------|---------|--------------|

Program Total: **P 2,121,651.00**

Program Name: INTEGRATED R&D PROGRAM ON BIOFUELS: SUBPROGRAM ON THE UTILIZATION OF SWEET SORGHUM AND CASSAVA AS FEEDSTOCKS FOR ETHANOL PRODUCTION

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|------|------|------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|-------------|--------|------------|
| [57] | 2887 | Proj. 3.3 Development of Management Strategies against Insect Pests of Sweet Sorghum, Sorghum Bicolor (Year 2 of 2) | 7/1/2010 | 6/30/2011 | UPLB-CA CPC | PCARRD | 236,322.00 |
| [58] | 2890 | Proj. 3.4 Assessment of Major Disease in Commercial Sweet Sorghum Varieties and Development of Management Strategies (Year 2 of 3) | 7/1/2010 | 6/30/2011 | UPLB-CA CPC | PCARRD | 155,814.00 |
| | 2890 | Proj. 3.4 Assessment of Major Disease in Commercial Sweet Sorghum Varieties and | 7/1/2011 | 6/30/2012 | UPLB-CA CPC | PCARRD | 577,191.00 |

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|--------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|-----------------------------|---------|-----------------------|------------------------|
| | | Development of Management Strategies (Year 3 of 3) | | | | | | |
| [59] | 3877 | Project 3.5 Pest Dynamic on Sweet Sorghum Under Different Agro-Ecological Zones (Year 2 of 2) | 7/1/2011 | 12/31/2011 | MMSU | PCARRD | | 1,781,542.00 |
| | | | | | | | Program Total: | P 2,750,869.00 |
| Program Name: MECO - TECO | | | | | | | | |
| [60] | 5744 | Morphology, Reassessment and Conservation of Threatened and Economic Philippine Pteridophytes (Year 1 of 3) | 1/1/2012 | 12/31/2012 | CMU (Central Mindanao) | PCAARRD | | 461,196.00 |
| [61] | 5570 | Philippine-Taiwan Integrated Predictive Studies of Geo-Meteorological Hazards (Year 1 of 2) | 11/15/2011 | 11/16/2012 | UPD-NIGS | PCIEERD | | 1,316,013.00 |
| | | | | | | | Program Total: | P 1,777,209.00 |
| Program Name: NATIONAL INTEGRATED BANANA R&D | | | | | | | | |
| [62] | 3853 | Project 1.3. Evaluation of Wild and Cultivated Bananas of the Philippines for Resistance to Major Virus Diseases, and Eradication of Virus-Infected Bananas from National and Regional Germplasm Collection (Year 3 of 3) | 7/1/2011 | 6/30/2012 | UPLB-IPB | PCARRD | | 1,087,821.00 |
| | 3853 | Project 1.3. Evaluation of Wild and Cultivated Bananas of the Philippines for Resistance to Major Virus Diseases, and Eradication of Virus-Infected Bananas from National and Regional Germplasm Collection (Year 2 of 3) | 7/1/2010 | 6/30/2011 | UPLB-IPB | PCARRD | | 772,374.00 |
| | | | | | | | Program Total: | P 1,860,195.00 |
| Program Name: NATIONWIDE OPERATIONAL ASSESSMENT OF HAZARDS (NOAH) FOR CLIMATE CHANGE ADAPTATION AND MITIGATION AND DISASTER RISK REDUCTION (CCAM-DRR) | | | | | | | | |
| [63] | 4839 | Development of Hybrid Weather Monitoring System and Production of Weather and Rain Automated Stations (Year 2 of 2) | 9/1/2013 | 12/31/2013 | ASTI | PCIEERD | | 23,052,219.00 |
| | 4839 | Development of Hybrid Weather Monitoring System and Production of Weather and Rain Automated Stations (Year 1 of 2) | 9/1/2010 | 8/31/2011 | ASTI | PCIEERD | | 46,732,617.00 |
| | | | | | | | Program Total: | P 69,784,836.00 |
| Program Name: NOAH: DISASTER RISK MANAGEMENT USING SENSORS NETWORK AND COMPUTING: Early Warning Systems for Landslides, Slope Failures and Debris Flow | | | | | | | | |
| [64] | 3329 | Project 1. DYNASLOPE: Development of a Dynamic Models of Landslides, Slope Failures and Debris Flows (Year 3 of 4) | 6/1/2010 | 5/31/2011 | UPD-EEEE | PCASTRD | | 1,554,245.00 |
| | 3329 | Project 1. DYNASLOPE: Development of a Dynamic Models of Landslides, Slope Failures and Debris Flows (Year 4 of 4) | 6/1/2012 | 5/31/2013 | UPD-EEEE | PCASTRD | | 7,779,328.00 |
| [65] | 3330 | Project 2. SENSLOPE: Development of Alternate Cost-Effective Instrumentation and Sensor Networks (Year 3 of 5) | 6/1/2010 | 5/31/2011 | UPD-EEEE | PCASTRD | | 479,305.00 |
| | 3330 | Project 2. SENSLOPE: Development of Alternate Cost-Effective Instrumentation and Sensor Networks (Year 4 of 5) | 6/1/2011 | 5/31/2012 | UPD-EEEE | PCASTRD | | 11,541,142.36 |
| | | | | | | | Program Total: | P 21,354,020.36 |
| Program Name: NOAH: Nationwide Disaster Risk Exposure, Assessment and Mitigation (DREAM) Program | | | | | | | | |
| [66] | 5834 | Project 1. LIDAR and SAR Data Acquisition (formerly Project 1. LIDAR and INSAR Data Acquisition) (Year 1 of 2) | 12/20/2011 | 12/19/2012 | PAGASA ASTI UPD-TCAGP | PCIEERD | | 573,687,748.00 |
| | 5834 | Project 1. LIDAR and SAR Data Acquisition (formerly Project 1. LIDAR and INSAR Data Acquisition) (Year 2 of 2) | 12/20/2013 | 8/19/2014 | PAGASA ASTI UPD-TCAGP | PCIEERD | | 267,798,548.00 |
| [67] | 5835 | Project 2. LIDAR and SAR Data Calibration and Validation Project [Formerly Project 2. LIDAR and INSAR Data Calibration and Validation Project] (Year 1 of 2) | 12/20/2011 | 12/19/2012 | UPD-TCAGP | PCIEERD | | 179,508,676.00 |

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|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|-----------|---------|----------------|
| 5835 | Project 2. LIDAR and SAR Data Calibration and Validation Project [Formerly Project 2. LIDAR and INSAR Data Calibration and Validation Project] (Year 2 of 2) | 12/20/2013 | 6/19/2014 | UPD-TCAGP | PCIEERD | 155,864,922.00 |
| [68] 5836 | Project 3. Extracting Digital Elevation Models and Salient Features for Flood Modelling (Year 1 of 2) | 12/20/2011 | 12/19/2012 | UPD-TCAGP | PCIEERD | 148,529,058.00 |
| 5836 | Project 3. Extracting Digital Elevation Models and Salient Features for Flood Modelling (Year 2 of 2) | 12/20/2013 | 10/19/2014 | UPD-TCAGP | PCIEERD | 99,462,244.00 |
| [69] 5837 | Project 4. Integrating High-Resolution Digital Elevation Models (DEMs) into GIS-based Flood Modelling (Year 1 of 2) | 12/20/2011 | 12/19/2012 | UPD-TCAGP | PCIEERD | 74,403,060.00 |
| 5837 | Project 4. Integrating High-Resolution Digital Elevation Models (DEMs) into GIS-based Flood Modelling (Year 2 of 2) | 12/20/2013 | 12/19/2014 | UPD-TCAGP | PCIEERD | 85,457,124.00 |
| [70] 5838 | Project 5. Training for Lidar Data Acquisition and Flood Modelling (Year 1 of 2) | 12/20/2011 | 12/19/2012 | UPD-TCAGP | PCIEERD | 7,653,320.00 |
| 5838 | Project 5. Training for Lidar Data Acquisition and Flood Modelling (Year 2 of 2) | 12/20/2013 | 12/19/2014 | UPD-TCAGP | PCIEERD | 7,635,300.00 |

Program Total: P 1,600,000,000.00

Program Name: PASIG RIVER STEWARDSHIP INITIATIVES THROUGH S&T ADVOCACY

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|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|------|--------|------------|
| [71] 4457 | Project 7. Instilling Environmental Awareness through Waste Minimization and Waste Management among the Learning Institutions and communities (Year 1 of 1) | 4/1/2011 | 9/30/2011 | ITDI | PCIERD | 192,800.00 |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|------|--------|------------|

Program Total: P 192,800.00

Program Name: RECONSTRUCTION OF QUATERNARY ERUPTIONS OF PHILIPPINE VOLCANOES AND CONSEQUENT CHANGES IN THE MARINE ENVIRONMENT

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|-----------|------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|----------|--------|--------------|
| [72] 3799 | Project 1. Tephrochronologic Studies of the Bicol Arc and Western Philippine Basin (Year 3 of 3) | 6/15/2012 | 12/14/2012 | UPD-NIGS | PCIERD | 928,456.00 |
| 3799 | Project 1. Tephrochronologic Studies of the Bicol Arc and Western Philippine Basin (Year 2 of 3) | 6/15/2010 | 6/14/2011 | UPD-NIGS | PCIERD | 382,405.00 |
| [73] 3800 | Project 2. Tracing the Eastern Philippine Arc Evolution from Marine and Terrestrial Volcanic Rocks and Ash Records (Year 3 of 3) | 6/15/2012 | 12/14/2012 | UPD-NIGS | PCIERD | 1,345,178.00 |
| 3800 | Project 2. Tracing the Eastern Philippine Arc Evolution from Marine and Terrestrial Volcanic Rocks and Ash Records (Year 2 of 3) | 6/15/2010 | 6/14/2011 | UPD-NIGS | PCIERD | 1,045,270.00 |
| [74] 3801 | Project 3. Influence of Large Explosive Eruptions of Philippine Volcanoes and Consequent Changes in the Marine Environment (Year 2 of 3) | 6/15/2010 | 6/14/2011 | UPD-NIGS | PCIERD | 2,466,145.00 |
| 3801 | Project 3. Influence of Large Explosive Eruptions of Philippine Volcanoes and Consequent Changes in the Marine Environment (Year 3 of 3) | 6/15/2012 | 12/14/2012 | UPD-NIGS | PCIERD | 516,185.00 |

Program Total: P 6,683,639.00

Program Name: REEF RESTORATION: PRESERVING CORAL BIODIVERSITY AND INCREASING REEF RESILIENCE IN THE FACE OF CLIMATE CHANGE

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|-----------|----------------------------------------------------------------------------------------------------------|----------|-----------|---------|--------|--------------|
| [75] 4498 | Proj. 1. Conserving Biodiversity and Restoring Damaged Reefs Through Community Involvement (Year 2 of 2) | 3/1/2011 | 2/29/2012 | UPD-MSI | PCAMRD | 1,443,799.00 |
| [76] 4499 | Proj. 2. Production of Coral Propagules for Reef Restoration (Year 2 of 2) | 3/1/2011 | 2/29/2012 | UPD-MSI | PCAMRD | 1,372,838.00 |

Program Total: P 2,816,637.00

Program Name: REMOTE SENSING INFORMATION FOR LIVING ENVIRONMENTS AND NATIONWIDE TOOLS FOR SENTINEL ECOSYSTEMS IN OUR ARCHIPELAGIC SEAS (RESILIENT SEAS) FOR CLIMATE CHANGE [FORMERLY, ICE-CREAM]

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|-----------|---------------------------------------------------------------------------------------------------------------|----------|------------|---------|--------|--------------|
| [77] 3766 | Project 1. Climate Change and the Coast: Vulnerability of Benthic-Pelagic Productivity (CCC-BP) (Year 3 of 3) | 4/1/2011 | 12/31/2011 | UPD-MSI | PCAMRD | 2,382,957.00 |
| [78] 3767 | Project 2. Retrospective Analyses of Climate | 4/1/2011 | 3/31/2012 | UPD-MSI | PCAMRD | 2,640,613.00 |

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|------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|------------|--------|--|--------------|
| | | Change from Coastal Erosion Trend and Uplifted Coral Reef Assemblages (Year 3 of 3) | | | | | | |
| [79] | 3768 | Project 3. MIRROR: Monitoring and Impact Research on Resilience of Reefs (Year 3 of 3) | 4/1/2011 | 12/31/2011 | DLSU | PCAMRD | | 1,957,627.00 |
| [80] | 3774 | Project 4. Coastal Ecosystem Science Research and Monitoring: Fisheries Ecosystem Connectivity and Monitoring (Year 3 of 3) | 1/18/2012 | 5/17/2012 | UPV | PCAMRD | | 2,603,028.00 |
| [81] | 3770 | Project 5. Coastal Ecosystem Science Research and Adaptive Management: Invertebrate Fisheries Populations as Response Indicators for Climate Change (Year 3 of 3) | 4/1/2011 | 12/31/2011 | XU | PCAMRD | | 1,803,420.00 |
| [82] | 3771 | Project 6. Climate Change Vulnerability of Coastal Fisheries in Mindanao (CoastFish) (Year 3 of 3) | 1/18/2012 | 4/17/2012 | MSU-Naawan | PCAMRD | | 2,239,196.00 |
| [83] | 3772 | Project 7. Climate Impact and Adaptation in the Coastal Environment (CLIMACE - Bicol) (Year 3 of 3) | 1/18/2012 | 6/17/2012 | BU (Bicol) | PCAMRD | | 1,655,443.00 |
| [84] | 3773 | Project 8. Research and Development of Adaptive Management and Feedback Monitoring Networks (Year 3 of 3) | 1/18/2012 | 4/17/2012 | UPD-MSI | PCAMRD | | 3,072,271.00 |

Program Total: **P 18,354,555.00**

Program Name: RESOURCE ASSESSMENT, MARICULTURE AND MANAGEMENT OF COMMERCIAL SCALLOPS FOR EFFECTIVE LOCAL GOVERNANCE IN ASID GULF, MASBATE

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|------|------|--------------------------------------------------------------------------------|----------|-----------|---------------------|--------|--|--------------|
| [85] | 2889 | Proj. 1. Resource Assessment of Commercial Scallops in Acid Gulf (Year 4 of 4) | 7/1/2010 | 6/30/2011 | BU (Bicol) BU-TC | PCAMRD | | 1,841,211.80 |
|------|------|--------------------------------------------------------------------------------|----------|-----------|---------------------|--------|--|--------------|

Program Total: **P 1,841,211.80**

Program Name: Surveys and Measurement Technologies for Flood Control, Mitigation and Management Systems

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|------|------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-----|---------|--|--------------|
| [86] | 4910 | Project 1. Determination of Water Impoundment Capacity Along the Wawa Reservoir for Flood Control and Mitigation Applications (Year 1 of 1) | 4/21/2011 | 10/20/2011 | UPD | PCIEERD | | 969,494.00 |
| [87] | 4911 | Project 2. Establishment of Spillover Elevation Along Flood Prone River System: Phase 1 Marikina-Pasig River (Year 1 of 1) | 4/21/2011 | 10/20/2011 | UPD | PCIEERD | | 1,354,051.00 |

Program Total: **P 2,323,545.00**

Program Name: THE SECOND PHASE OF THE TAIWAN-PHILIPPINES GEODYNAMIC INTEGRATED PROJECT

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|------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|----------|---------|--|------------|
| [88] | 4848 | Project 1. The Geology of an Overriding Plate: Constraints from field Geology, Sediment, Geochemistry and paleontology (Year 1 of 3) | 3/1/2011 | 2/29/2012 | UPD-NIGS | PCIEERD | | 138,924.00 |
| [89] | 4850 | Project 2. Linking Active Margin Tectonics and Overriding Plate Dynamics: A Look at the Geochemical Nature of the Central Philippines (Year 1 of 3) | 3/1/2011 | 2/29/2012 | UPD-NIGS | PCIEERD | | 116,424.00 |
| [90] | 4851 | Project 3. Retracing the Central Philippine Overriding Plate Motion (Year 1 of 3) | 3/1/2011 | 2/29/2012 | UPD-NIGS | PCIEERD | | 162,300.00 |
| [91] | 4854 | Project 4. Geophysical Characterization of an overriding Plate: Arc-Continent Convergence and Its Implications for Natural Hazards and Resource Distribution in the Central Philippines (Year 1 of 3) | 3/1/2011 | 2/29/2012 | UPD-NIGS | PCIEERD | | 197,148.00 |

Program Total: **P 614,796.00**

Program Name: -None-

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|------|------|-----------------------------------------------------------------------------------------------------|----------|-----------|--------------------------------|---------|--|---------------|
| [92] | 5677 | Acquisition of Detailed Bathymetry for Coastal Erosion Management (Year 1 of 3) | 3/1/2012 | 2/28/2013 | UPD-MSI | PCAARRD | | 15,167,404.00 |
| [93] | 5153 | Coordination of National Workshop for the IAEA Water Availability Enhancement Project (Year 1 of 1) | 1/1/2011 | 3/31/2011 | PNRI | PCIEERD | | 265,685.00 |
| [94] | 5405 | Development of a Low-Cost and Locally-Designed Meteorological Buoy (MetBouy) (Year 1 of 2) | 9/1/2011 | 8/31/2012 | PCG MIRDC PAGASA ASTI | PCIEERD | | 8,999,000.00 |
| [95] | 3587 | Development of Sweet Potato varieties Resistant to Sweetpotato Virus Disease | 9/1/2011 | 8/31/2012 | UPLB-IPB | PCARRD | | 1,198,756.00 |

Complex (SPVD) through Agrobacterium-mediated Transformation: Phase II-A Proof of Concept (Year 3 of 3)

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|-------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|------------------------------------|---------|---------------|
| [96] | 3493 | DOST Biodiversity Park (Year 3 of 3) | 5/15/2010 | 5/14/2011 | DOST-NCR | PCARRD | 589,429.00 |
| [97] | 5555 | Eco-friendly Treatment in Carrageenan Production from Some Philippine Seaweeds (Year 1 of 1) | 9/1/2011 | 8/31/2012 | UPD-MSI | PCAMRD | 500,000.00 |
| [98] | 4650 | Enhancement of Earthquake and Volcano Monitoring and Effective Utilization of Disaster Mitigation Information in the Philippines (Year 1 of 1) | 8/1/2011 | 12/31/2011 | PHIVOLCS | PCIERD | 2,487,548.00 |
| [99] | 5556 | Enhancing the Competitive Identity of Unique Philippine Products Through the Development of Packaging Design and Appropriate Packaging Technology (Year 1 of 3) | 8/1/2011 | 7/31/2012 | ITDI | PCIEERD | 2,839,974.00 |
| [100] | 4641 | Establishing the History of the Philippine Island Arc System: Clues from the Rocks of the Zambales-Pangasinan Region (Year 2 of 2) | 8/1/2012 | 1/31/2013 | UPD-NIGS | PCIEERD | 1,053,945.30 |
| | 4641 | Establishing the History of the Philippine Island Arc System: Clues from the Rocks of the Zambales-Pangasinan Region (Year 1 of 2) | 8/1/2010 | 7/31/2011 | UPD-NIGS | PCIEERD | 1,566,980.00 |
| [101] | 4905 | Establishment of a Cost-Effective Local Tsunami Warning System for Selected High-Risk Coastal Communities of the Philippines (Year 1 of 2) | 9/1/2013 | 12/31/2013 | ASTI PHIVOLCS | PCIEERD | 15,000,000.00 |
| [102] | 5763 | Geology Working for a Resilient Society. The Annual Geological Convention of the Geological Society of the Philippines (Year 1 of 1) | | | UPD-NIGS | PCIEERD | 156,500.00 |
| [103] | 4065 | Monitoring the Crustal Deformation Patterns Along the Philippine Fault and the Cotabato-Sindangan Fault through Global Positioning Systems (GPS) (Year 2 of 2) | 6/16/2010 | 6/15/2011 | PHIVOLCS | PCIERD | 1,574,322.00 |
| [104] | 5385 | Performance and Safety Assessment of the Co-location of the Near Surface Radioactive Waste Disposal Facilities and Borehole Disposal Concept in the Philippines (Year 1 of 1) | 8/15/2011 | 8/14/2012 | PNRI | PCIEERD | 525,000.00 |
| [105] | 4840 | Satellite and Field Detection and Analysis of Ground Subsidence in Kamanava and Metro Manila (Year 1 of 3) | 12/1/2010 | 11/30/2011 | UPD-NIGS | PCIEERD | 73,000.00 |
| [106] | 5096 | Screening and Identification of Biofilms Formers as Potential Microbial Remediators for Heavy Contaminated Wastewater (Year 1 of 1) | 1/1/2011 | 12/31/2011 | UPLB | PCHRD | 529,600.00 |
| [107] | 77 | Support to the National Committee on Biosafety of the Phils. (NCBP) (Year 11) | 1/1/2011 | 12/31/2011 | DOST-NCBP DOST-OUsec for R&D | NRCP | 3,663,081.00 |

Program Total: P 56,190,224.30

Group Total: P 1,888,318,354.78

Grand Total: P 3,150,588,000.00

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Special Projects Division

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