

**QUARTERLY PHYSICAL REPORT OF OPERATION**

As of March 31, 2022

Agency : Department of Science and Technology - Philippine Council for Industry, Energy and Emerging Technology Research and Development (DOST - PCIEERD)

Organization Code (UACS) : < not applicable >

Particulars	UACS CODE	Physical Target (Budget Year)					Physical Accomplishment (Budget Year)					Variance	Remarks
		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
NATIONAL INDUSTRY, ENERGY AND EMERGING TECHNOLOGY	310100000 000000												
OO: Increased benefits to Filipinos from scientific knowledge and technological innovations for productivity and competitiveness													
Outcome Indicators													
1. Percentage of priorities in the Harmonized National R&D Agenda (HNRDA) addressed		90%	90%	90%	90%	90% (6/7)	100% (7/7)				100%	(10%)	The Council has ongoing projects in relation to its seven (7) main priorities in the HNRDA, namely: food and nutrition security, countryside development, competitive industry, delivery of social services, intelligent transport solutions, renewable energy and energy storage solutions, and human security.
2. Number of partnerships with local (public and private) and international organizations		15	20	10	10	55	100					(85)	Partners included in the report are the Implementing Agencies of the PCIEERD-supported projects under the research and development program and for other science and technology activities. All partners with

Particulars	UACS CODE	Physical Target (Budget Year)					Physical Accomplishment (Budget Year)					Variance	Remarks
		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total		
													ongoing projects are included in this report, thus, the high variance. Please take note that DOST attached agencies with projects either monitored or assisted by the PCIEERD are excluded based on the definition set by the Department.
Output Indicators													
1. Number of projects funded		30	20	10	39	99	38					-8	The Council disbursed funds to projects that were approved in 2021 which brought to over accomplishment. Moreover, two (2) of the projects covered in this report are previously funded under DOST - GIA and were approved for additional funding under PCIEERD - GIA.
2. Number of projects monitored		35	50	60	55	200	154					(119)	Since submission of project accomplishments and monitoring is being conducted mostly in semi-annual basis, it is notable that the number of monitored projects for this quarter is high. The Council admits that quarterly targeting of accomplishments will be improved to avoid overaccomplishments in the report.
3. Percentage of projects completed which are published in peer-reviewed journals, presented in national and/or international conferences, or with IP filed or approved					55%	55%	78%					(78%)	From 2019 - 2021, 377 projects have been completed but only 275 have publication and patent target. Out of this 275, 214 of them have achieved their targets. This overaccomplishment is due to the full implementation and adoption of 6Ps outputs

Particulars	UACS CODE	Physical Target (Budget Year)					Physical Accomplishment (Budget Year)					Variance	Remarks
		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total		
													of projects being supported. This number may still increase in the next quarters since we are still waiting for the final reports of recently completed projects.

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## **List of Partners with Local (public and private) and International Organizations**

- 1 Adamson University
- 2 Advanced Infnit Technology Solutions Inc.
- 3 Aklan State University - Kalibo Campus
- 4 Aklan State University - New Washington
- 5 Angeles University Foundation Integrated School
- 6 Asian Institute of Management
- 7 Ateneo de Davao University
- 8 Ateneo de Manila University
- 9 AtoANI
- 10 Bataan Peninsula State University - Main Campus
- 11 Batangas State University
- 12 Bicol University - Main
- 13 BizKit Technologies Inc.
- 14 Bizooku Philippines Inc.
- 15 Bulacan State University
- 16 Burket.Ph, Inc.
- 17 Cagayan State University - Andrews
- 18 Cagayan State University - Aparri
- 19 Cagayan State University - Carig
- 20 Capiz State University - Burias Campus
- 21 Caraga State University
- 22 CAWIL. AI
- 23 Cebu Institute of Technology University
- 24 Central Mindanao University
- 25 De La Salle University - Laguna
- 26 De La Salle University - Manila
- 27 Department of Agriculture - Philippine Rice Research Institute
- 28 Department of Environment and Natural Resources - Mines and Geosciences Bureau
- 29 Development Academy of the Philippines
- 30 Don Mariano Marcos Memorial State University - Mid La Union Campus
- 31 Don Mariano Marcos Memorial State University - North La Union Campus
- 32 Eastern Visayas State University
- 33 eCFulfill Inc.
- 34 Far Eastern University - East Asia College
- 35 Father Saturnino Urios University
- 36 FLQ Foods and Panciteria
- 37 Global One Shuttle Service, Inc.
- 38 Guimaras State College - Main
- 39 Holy Angel University
- 40 Iloilo Science and Technology University
- 41 InsightSCS Corp.
- 42 IOL Inc.
- 43 Isabela State University
- 44 Jose Rizal Memorial State College - Main
- 45 Kalinga-Apayao State College-Main
- 46 Laguna State Polytechnic University - Los Baños College of Fisheries
- 47 Lesstics Inc.
- 48 Mapua University
- 49 Maranga Software Solutions
- 50 Mariano Marcos State University - Main
- 51 Mindanao State University - General Santos City

- 52 Mindanao State University - Iligan Institute of Technology
- 53 Nanotronics, Inc
- 54 Northwestern Mindanao State College of Science and Technology
- 55 Nueva Vizcaya State University
- 56 NutriCoach, Inc.
- 57 OBXs IT Solutions
- 58 Palawan State University
- 59 Pamantasan ng Cabuyao
- 60 Pangasinan State University (PSU)
- 61 Partido State University
- 62 Philippine Women's College of Davao
- 63 PIRFS Multimedia Distribution Services
- 64 Polytechnic University of the Philippines
- 65 Robin Machine Manufacturing
- 66 Rocket Labs Consulting Inc.
- 67 Saint Louis University
- 68 Samar State University
- 69 Silliman University
- 70 Sultan Kudarat State University-Tacurong Campus
- 71 Technological Institute of the Philippines Manila - Arlegui Campus
- 72 Technological Institute of the Philippines Quezon City
- 73 The Green Table
- 74 University of Antique
- 75 University of Asia and the Pacific
- 76 University of Mindanao - Bolton
- 77 University of Perpetual Help System DALTA - Las Piñas
- 78 University of Perpetual Help System DALTA - Molino
- 79 University of Saint Louis
- 80 University of San Carlos - Talamban Campus
- 81 University of Santo Tomas
- 82 University of Science and Technology of Southern Philippines
- 83 University of Southeastern Philippines - Main
- 84 University of the Cordilleras
- 85 UP Baguio
- 86 UP Cebu
- 87 UP Diliman
- 88 UP Los Baños
- 89 UP Mindanao
- 90 UP Visayas
- 91 Virtualahan Inc.
- 92 West Visayas State University
- 93 Western Institute of Technology
- 94 e-Asia
- 95 SEA-EU
- 96 MECO-TECO
- 97 MOST
- 98 JST
- 99 UKRI
- 100 DST INDIA

### List of Projects Funded

	Project Title	Implementing Agency
<b>Startup Grant Program</b>		
1	Enhancement and Validation of Zippee Logistics: A Franchise B2B Logistic Platform for Truck Owners and Franchisees	Bizooku Philippines Inc.
2	Enhancement and Market Validation of Airship Logistics, A Logistics Management Suite to Help Optimize the End-To-End Delivery Operations of Ecommerce Logistics	Rocket Labs Consulting Inc
3	Enhancement and Market Validation of OMG! Oh My Genie! (An AI-Enabled Automated Last Mile Fulfillment System for Brands and Suppliers)	Chimera Technologies Corporation
4	Improvement of the Magwai Reef-Safe Sunscreen Formulation to Accelerate its Market Adoption	Magwayen Organics, Inc
<b>Women-Helping-Women: Innovating Social Enterprise (WHWise) Program</b>		
5	Enhancement and Market Validation of Husay.Co, A Learning-To-Earning Platform for Filipino Artists and Creative Workers	MotmotLala Co. (Husay.Co)
<b>Ships Ballast Water and Biofouling Treatment Systems for Marine Vessels (SAILS)</b>		
6	Project 1. Port And Ballast Water Baselines Using Ecological, Microbiological And Edna Approaches (PORTEC)	UP Diliman
<b>The Hybrid Ferrite-Bimetallic (Hy-FIBE) process: An integrated approach for the sustainable management of acid mine drainage (AMD)</b>		
7	Project 1. A Novel Technique For The Recovery of Valuable Metals From AMD Through Bimetallic Materials	Mindanao State University - Iligan Institute of Technology
8	Project 2. A Two-Step Neutralization Ferrite Process As Active Remediation Technique For Environmental Treatment of AMD	De La Salle University - Manila
9	Determination of appropriate expansion process of perlite to conform to standards of light weight aggregates for use in construction	UP Diliman
10	Knowledge Transfer to DOST Technical Staff: Catalyst to MSMEs' Gaining PQA for SMEs	DOST Region IX
11	Activity - based Modelling for Transport Last Mile Mobility and Decision Support System for Covid-19 Pandemic (ACTS)	UP Los Baños
12	Optimizing the Production of Natural Products from the Philippine Cinnamon & other Aromatic Plants	Plantsville Health
13	Prototype Enhancement for Digitizing Traditional Market Centers (Bagsakans) and Market Validation for A Networked Agricultural Clearing House	Verdant Seasons Farm Management Technologies Corp.
14	Establishment of PNC Dangal for Smart Warehouse Inventory Management System	Pamantasan ng Cabuyao

	<b>Project Title</b>	<b>Implementing Agency</b>
15	Enhancing Technological Innovation of Coconut Products of Segatic Daku Small Coconut Farmers Cooperative	Northwest Mindanao State College of Science and Technology
16	Assessment and Profiling of COVID-19 Pandemic - Induced Wastes in General Santos City: Basis for the Development of Innovative Waste-to-Energy Technology of MSU - Gensan	Mindanao State University - General Santos City
17	Addressing the Needs, Gaps, and Challenges of Pilmico Foods Inc. through Science and Technology Research and Development: An Expertise Project of MSU-IIT	Mindanao State University - Iligan Institute of Technology
18	Social Service Analytics and Mission Planning System (SSAMPS) for Barangay Guadalupe Viejo, Makati	Adamson University
19	Design, Improvement and Sea Testing of A Remote - Controlled Weapons System (RCWS)	Metals Industry Research and Development Center
20	PUV's Patterns and Attitude on the Streets using Artificial Intelligence & Data Analytics (PASADA)	Technological Institute of the Philippines
21	Road Infrastructure Design Evaluation & Reporting System (RIDER)	Technological University of the Philippines
22	Design and Development of Intelligent Traffic Control and Management System	Caraga State University
23	Progressive Advancement of Transportation networks through the Integration of vehicular Onboard Technologies with online platforms (ArangKaDATA)	UP Diliman
24	Recovery of Rare Earth Elements and Strategic Elements from Coal Fly Ash by Hydrometallurgical Techniques	Mindanao State University - Iligan Institute of Technology
25	Establishment of Halal Assurance System for Selected Food Ingredients (Dried and Powdered Onion, Garlic, Black Pepper and Chili)	Industrial and Technology Development Institute
26	Valorization of Agri-food Waste: Ultrasound-assisted Extraction of Oil and Polyphenols from Cherry Rejects of Cordillera Grown Arabica Coffee	UP Baguio
27	Developing the Capability of Micro- and Small-Scale Processors in the Manufacture of Quality Food Products from Philippine Cocoa Beans	Industrial and Technology Development Institute
28	Waste to Wealth: Value-Adding Approaches to Transform Cacao (Theobroma cacao L.) Pod Husk Towards Economic Development	Isabela State University - Main
29	Establishment of DOST Food Safety Web Application	DOST Region IV-A
	<b>Enhancement of the Competence and Capability of the National Metrology Laboratory of the Philippines</b>	
30	Project 2. Chemical Metrology for Inorganic Toxic Elements in Food and Water	Industrial Technology Development Institute
31	Project 3. Biological Metrology for Microorganisms in Food	Industrial Technology Development Institute

	<b>Project Title</b>	<b>Implementing Agency</b>
32	Utilization of Watermelon (Citrullus Sp.) Peels, Seeds, and Rinds Extracts as Value-Additive and Food Preservative for High-Fat Foods	University of Antique
33	Designing High Entropy Alloy Surfaces for Catalytic Applications using Atomistic Calculations and Materials Informatics Investigations	UP Los Baños
34	Young Innovators Program	Multiagency
35	Balik Scientist Program	Multiagency
36	Financial Support for the Information Dissemination and Promotion of Technologies	Philippine Council for Industry, Energy and Emerging Technology Research and Development
37	Project Management/Assessment and Policy Development Program	Philippine Council for Industry, Energy and Emerging Technology Research and Development
38	PCIEERD Human Resource Development	Multiagency

### List of Projects Monitored

	<b>Project Title</b>	<b>Implementing Agency</b>
1	Development of biodegradable nanofiber filters as an active material for medical-grade facemasks	University of San Carlos - Talamban Campus
	<b>Impact Assessment</b>	
2	Impact Assessment of the Technology Innovation for Commercialization (TECHNICOM) Program	Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development
	<b>IP Management Program for Academic Institutions Commercializing Technologies</b>	
3	Establishment of Technology Transfer and Utilization Processes and Services in Bulacan State University	Bulacan State University
4	Enhancement of the DOST-FNRI's Technology Transfer Office Policies and Processes	Food and Nutrition Research Institute
5	Establishment of the Knowledge, Innovation and Technology Transfer Processes of the Holy Angel University	Holy Angel University
6	Establishment of Technology Management System at UP Mindanao	UP Mindanao
7	SPRINGBOARD - Supporting Potential and Relevant IP as Next Generation Business Opportunities towards Acceleration of Research and Development	Batangas State University
	<b>Collaborative Research and Development to Leverage Philippine Economy (CRADLE) Program</b>	
8	Upgrading the Philippine Lateritic Bauxite Through Potential Ore Beneficiation Processes	UP Diliman
9	Building Bonds between Academe and Industry: Formulation of Vitrified Bonding Materials for Locally Manufactured Aluminum Oxide and Silicon Carbide Grinding Wheels	Ateneo de Manila University
10	SPARCS: System for Plasma-assisted Ablation of Residues and Cleaning of Surfaces	UP Diliman
11	CYANanobot: Miniaturized Boat-assisted Data Acquisition for Automated Cyanide Monitoring in Wastewater using Optical Nano-sensor	Caraga State University
12	Drive Air ni Juan - Aluminosilicate Technology for Compact Air Purification	Global One Shuttle Service, Inc.
13	Community-level Functionalization of Handwoven Cordillera and Mindoro Textiles for Creative Protective Clothing	Philippine Textile Research Institute
14	Valorization of Carabao's Milk Produced in Western Visayas for the 'New Normal'	UP Visayas

	<b>Project Title</b>	<b>Implementing Agency</b>
15	Technology Intervention to Provide an Alternative Market for Sampaguita ( <i>Jasminum sambac</i> ) as Raw Material for Jasmine Oil Production	Mapua University
16	IoT (Internet of Tubig) : Development of smart water meter wireless network	UP Diliman
17	Development of Quality Soysage Using Okara	University of Santo Tomas
18	Reworking of Processed Meat Using a Combined Acidification-Heat Treatment Process	Eastern Visayas State University
19	Smart Parcel Locker	Technological Institute of the Philippines
20	Design and Prototyping of Salt Harvesting Machine	Industrial Technology Development Institute
21	Diachronic Representation and Linguistic Study of Filipino Word Senses Across Social and Digital Media Contexts	De La Salle University
22	SUGPo: Sustainable mine waste management Using modified hydrothermal carbon from prawn shells, and Geochemical modelling of Pathways of contaminants from mine tailings	Mindanao State University - Iligan Institute of Technology
23	Handum: The Design, Implementation, and Analysis of a Digital/Mobile Game-based Learning Tool for Primary and Secondary Education	UP Diliman
24	Valorization of Mining Wastes by Green Nano-hydrometallurgy: Application of Green-mediated Leaching Process and Innovative Magnetic Nano-separations for the Recovery of (Precious)Metals	Caraga State University
25	Establishment of Halal Assurance System for Selected Food Ingredients (Dried and Powdered Onion, Garlic, Black Pepper and Chili)	Industrial Technology Development Institute
26	Development of Food Reference Materials for Nutrition Labeling for Use of Local Testing Laboratories (Phase 3) Implementation of ISO 17034:2016 Quality Management System in the Development of Rice Flour Reference Materials	Food and Nutrition Research Institute
27	Integrated Flywheel Energy Storage Management System	De La Salle University
28	Eco-System Modeling and Material Transport Analysis for the Rehabilitation of Manila Bay (eSMART)	UP Diliman
29	Development of Low Heat and Low Humidity (LH) <sup>2</sup> Drying System for DOST Malnutrition Reduction Program (DOST-MRP) Facilities	Food and Nutrition Research Institute
<b>Higher Education Institution Readiness for Innovation and Technopreneurship</b>		
30	Establishment of the DOST-TOMASInno Center TBI	University of Santo Tomas

	<b>Project Title</b>	<b>Implementing Agency</b>
31	Establishment of Technology Business Incubation Facility of Mapua University	Mapua University
<b>Funding Assistance for Spin-off and Translation of Research in Advancing Commercialization Program</b>		
32	Establishment of a Spin-off Facility and Pilot Plant for Fruitect Coatings for Shelf-Life Extension of Fresh Fruit Produce	UP Los Baños
33	Alama Project: Technology Development, Commercialization and Promotion of Gitara ni Juan	UP Diliman
<b>Advanced Additive Manufacturing R&amp;D Program (AMCen)</b>		
34	Research on Advanced Prototyping for Product Innovation and Development using Additive Manufacturing Technologies (RAPPID-ADMATEC)	Metals Industry Research and Development Center
35	Development of Multiple Materials Platform for Additive Manufacturing (MATDEV)	Industrial Technology Development Institute
36	Fabrication and characterization of plasma sprayed nanostructured TiO <sub>2</sub> -based coatings for photocatalytic applications	Mindanao State University - Iligan Institute of Technology
37	Secured Command and Control Communication Link System (Unclassified Title)	Holy Angel University
38	Fabrication and Characterization of Hydrophobic Nanocomposite Plated Abaca Fabric for Enhanced Electromagnetic Interference Shielding (EMI-SE) and Thermal Resistance (TR) for Spacesuits Application	De La Salle University
39	Philippines - Quantitative Lahar Impact and Loss Assessment Under Changing Land Use and Climate Scenarios	Philippine Institute of Volcanology and Seismology
40	Weather and Climate Science for Service Partnership for South East Asia: Building Safer Community to Weather and Climate Variability through Science and Innovation (WCSSP)	Philippine Atmospheric, Geophysical and Astronomical Services Administration
<b>Space Technology &amp; Applications Mastery, Innovation and Advancement (STAMINA4Space)</b>		
41	Project 2. Building PHL-50: Localizing the Diwata-1 and Diwata-2 Bus System as the Country's Space Heritage 50kg Microsatellite Bus (PHL-50)	UP Diliman
42	Project 4. Ground Receiving, Archiving Science Product Development and Distribution (GRASPED)	Advanced Science and Technology Institute
43	Optimization of the Operational Capabilities of Hydromet Sensors in Line with International Standards (WMO Standards) for Effective Weather, Flood Warning (CBFEWS) and Application to Research	Philippine Atmospheric, Geophysical and Astronomical Services Administration

	<b>Project Title</b>	<b>Implementing Agency</b>
44	Liquefaction Potential for Resilient Schools in GMMA: A Liquefaction Probabilistic Model Using Non-Invasive Geophysical Techniques and Limited Probe Hole	Philippine Institute of Volcanology and Seismology
<b>Philippine Bamboo Musical Instruments Innovation Research and Development Program</b>		
45	Project 1 : Documentation of Philippine Indigenous Bamboo Musical Instruments	Forest Products Research and Development Institute
46	Risk Profiling of Hazards in Philippine Food to Support National Risk Management	UP Diliman
47	Operationalization of Halal Verification Laboratories (HVLs) of DOST Regions CALABARZON, 11, 12, and ARMM in Support to Halal Assurance Systems	Industrial Technology Development Institute
48	Fabrication of Graphene-based Nanostructure Substrates for Applications in Ultrasensitive Detection	UP Diliman
<b>e-Asia JRP</b>		
49	Fundamental study of the physical properties of metal-oxide single nanowires and nanoparticles for bio-nano-sensing	De La Salle University
50	Study on the Suitability of Acrylonitrile Styrene Acrylate (ASA) as Material for a 3D-Printed Statue	Metals Industry Research and Development Center
51	Transforming R&D Outputs into Innovations through Technopreneurship and Customer Validation (TRANSDI)	Philippine Council for Industry, Energy and Emerging Technology Research and Development
52	Integrated Community-scale Textile Fiber Innovation Hubs in Northern Luzon	Philippine Textile Research Institute
<b>Startup Grant Fund Program</b>		
53	Enhancement and Validation of Zippee Logistics: A Franchise B2B Logistic Platform for Truck Owners and Franchisees	Bizooku Philippines Inc.
54	Enhancement and Validation of the Advanced Robust Cooperative System (ARCS), an integrated Software-as-a-Service (SAAS) solution for cooperative management and regulatory compliance	IOL Inc.
55	Speciation and Isotopic Characterization of Mercury in Sediments in Honda Bay and Puerto Princesa Bay, Palawan	Philippine Nuclear Research Institute
56	Hundred Islands National Park Management System: Implementation of Smart Tourism	Pangasinan State University
57	Development of Framework and Materials for Distance and Remote Learning via Datacasting	De La Salle University
58	Sustainable BIM-Based Evaluation for Infrastructure Project Implementation	Mapua University

	<b>Project Title</b>	<b>Implementing Agency</b>
	<b>Terahertz Research and Innovation Program Leading to Commercially-Viable THz Time Domain Spectroscopy Systems</b>	
59	Project 4. THz Spectroscopic Fingerprinting of Controlled Substances Relevant to Human Health and Security	UP Los Baños
	<b>DOST-MOST Joint Research Program (JRP)</b>	
60	Solar PV Resource and Installation Assessment Using Geospatial Technologies (SINAG)	UP Diliman
61	Green Oil and Phytochemicals from Cashew	Industrial Technology Development Institute
62	The Development of High-performance and Low-cost Membrane Electrode Assembly for Alkaline Fuel Cell Based on Ion/Electron Dual Conducting Catalyst Layers	UP Diliman
63	Establishment of DOST Food Safety Web Application	DOST Region IV-A
64	Towards Leveling- up OneLab for Research, Development and Innovation	DOST Region IX
65	A Game-based Mobile Learning Platform for Social Studies	Mariano Marcos State University - Main
66	PhilRice Data Analytics Initiative - RiceLytics	Department of Agriculture - Philippine Rice Research Institute
67	MR. Tour Guide: A Cultural Adaptive Mapping Platform using Mixed Reality	Batangas State University
68	Passive Seismic Stratigraphy of Irregular Topography (PSSIT) Applicable to Mountainous Areas of Baguio City	Philippine Institute of Volcanology and Seismology
69	Design of a Modular Stator, Segmented Rotor Switched Reluctance Motor	UP Diliman
70	Scale-up Production, Stability and Other Applications of Natural Colorants for Cosmetics	Industrial Technology Development Institute
71	Stunt Science: A Physics Simulator Mobile Game	Western Institute of Technology
72	Philippine Comprehensive Nationwide Construction Resources Technical Evaluation (Philippine CoNCReTE)	UP Diliman
73	Unmanned Aerial System (UAS) with Passively Rotating Spherical Shell for Close-proximity Inspection of Infrastructure	Mindanao State University - Iligan Institute of Technology
74	Haynayan AR: An Augmented Reality-Based Lesson for the Improvement of Learning Achievement in Cell Biology for the STEM Curriculum	Philippine Science High School
75	Development of FIC Competency in Moving New Products from Concept to Market Launch	Industrial Technology Development Institute

	<b>Project Title</b>	<b>Implementing Agency</b>
76	Development of Plasma Coating Processes for the Furniture Industry	UP Diliman
77	Deployment of Energy Monitoring Application and Network at DOST (DEMAND) as Demonstration Sites	Industrial Technology Development Institute
78	Application of Natural Antioxidants Derived from Sugarcane for Food, Food Supplement and Cosmetics Production Formulations	UP Los Baños
79	Recovery of Nickel, Cobalt, Iron and Rare Earth Elements from Low Grade Philippine Laterite Ores using Atmospheric Leaching with Reduction Pretreatment	Mines and Geosciences Bureau
80	Development of Theoretical and Computational Models Based on Percolation Theory Leading Towards Durable Material Design	Mapua University
<b>DOST-JSPS</b>		
81	Preparation of Crown Ethers and Alpha-aminophosphonates Decorated Natural Fibers-based Hybrids Metal Ion Adsorbents by Fusing Multicomponent-reaction and Radiation-grafting of Polymers	Philippine Nuclear Research Institute
82	Smarter Philippines through Data Analytics R&D, Training and Adoption (SPARTA)	Development Academy of the Philippines
<b>Ships Ballast Water and Biofouling Treatment Systems for Marine Vessels (SAILS)</b>		
83	Project 1. Port and Ballast Water Baselines using ecological, microbiological and eDNA approaches	UP Diliman
84	Implementation of the RDLead Program	National Research Council of the Philippines
<b>Securing Water Resources in Tourist Destinations in the Philippines: Pilot Study in Boracay Island Program</b>		
85	Project 1. Water for Tourism: A Science-Based Water Resource Monitoring and Management Planning Guide for Tourist Destinations in the Philippines	Ateneo de Manila University
86	Plant Protein Products from Local Sources	Industrial Technology Development Institute
87	Exposure Assessment of Food Chemical Contamination in Metro Manila: A Pilot Total Diet Study Approach	Food and Nutrition Research Institute
88	Development of Nanosilica-based Anti-Corrosion Coating Formulations for Carbon Steel Reinforcement Used in Farm Structures	UP Los Baños
<b>Enhancement of the Competence and Capability of the National Metrology Laboratory of the Philippines</b>		
89	Project 1. Chemical Metrology for Organic Contaminants in Foods and Water	Industrial Technology Development Institute
90	Project 2. Chemical Metrology for Inorganic Toxic Elements in Food and Water	Industrial Technology Development Institute

	<b>Project Title</b>	<b>Implementing Agency</b>
91	Project 3. Biological Metrology for Microorganisms in Food	Industrial Technology Development Institute
92	Understanding Lightning and Thunderstorms for Extreme Weather Monitoring and Information Sharing (ULAT)	Advanced Science and Technology Institute
93	Establishment of Regional Yarn Production and Innovation Center – Northern Luzon	Philippine Textile Research Institute
94	i-DRIP (IoT-Based Dispenser for Real-time Intelligent Pour) an IoT-Based Real-Time Control and Monitoring System for Smart Beverage Dispenser	Bulacan State University
<b>Establishment for Smart Water Infrastructure and Management (SWIM) Research and Development Center</b>		
95	Project 3. GIS-Based Decision Support Tool in Managing Urban Water Infrastructure with Stormwater Intervention for Smart Cities: A Case for Cauayan City	Isabela State University - Main
96	SMART WATER RESOURCES PLANNING AND MONITORING: Assessment, Design and Development of Water Resources Projects and Interventions	Isabela State University - Main
<b>Institutional Development Program</b>		
97	Establishment of ParSU – MTL (Microbiology Testing Laboratory)	Partido State University
98	Establishment of a Solid Free Form Fabrication Research Laboratory (SoFFReL)	Pangasinan State University
99	Survey of Heatwaves in the Philippine Seas (SHIPS)	UP Cebu
100	Engineered smart concrete utilizing indigenous wastes for durable and intelligent infrastructure	University of Mindanao - Bolton
<b>Smart Food Value Chain Program</b>		
101	Development of Mobile Modular Food Processing Facility (MMFPF)	Industrial Technology Development Institute
102	SMART INK: Development of a 3D Printing Nano-Structured Carrageenan Hydrogel	University of San Carlos
103	Upgrading the Capability of Existing Distribution Centers /Trading Posts in the Delivery of Fresh and Semi-Processed Agricultural Products in the Supply Chain: Focusing on Packaging Technology and Logistics	Industrial Technology Development Institute
104	Design, Fabrication and Testing of Electrical and Electronic Systems of a Locally Developed E-Trike	UP Diliman

	<b>Project Title</b>	<b>Implementing Agency</b>
105	Colorimetric and Performance Standardization of NatDyes Produced in Various NatDyes Hubs in the Philippines	Philippine Textile Research Institute
106	PAVE-Prototype Automated Visual Survey Equipment	UP Diliman
107	A Link-Up of Geomatics and Social Science Research for the Development of Smart Cities (LUNGSOD) Project	UP Diliman
108	Imahe Labs: An Educational Game for Chemistry in the Senior High School and Junior High School Sectors of Baguio City	Philippine Council for Industry, Energy and Emerging Technology Research and Development
109	Natural Fiber-based Technical Textiles for Smart Indoor Installations	Philippine Textile Research Institute
110	Natural Textiles as Innovative Formwork and Reinforcement for Freeform Concrete Structures	Philippine Textile Research Institute
111	Project CRUISE: A Capacitive Resistivity Underground Imaging Survey Equipment for Underground Utility Assessment of Philippine Infrastructures	De La Salle University
112	Developing the Capability of Micro- and Small-Scale Processors in the Manufacture of Quality Food Products from Philippine Cocoa Beans	Industrial Technology Development Institute
113	System for Optimized Routing for Transport (SORT)	De La Salle University
114	Safe, Efficient, and Sustainable Solar-Assisted Plug-In Electric Boat (Sessy E-Boat)	Mapua University
115	Progressive Advancement of Transportation networks through the Integration of vehicular Onboard Technologies with online platforms (ArangKaDATA)	UP Diliman
116	Production and Improvement of Construction Materials using Bacterial Calcite Precipitation	UP Diliman
117	Development of Innovative Food Products from Colored Philippine Tubers and Root Crops through the UPLB-DOST Food Innovation Center	UP Los Baños
118	Geotechnical Mapping of Metro Manila Subsoil (GEMMMS)	De La Salle University
119	Integrated Flood and Water Resources Management in ASEAN Basins for Sustainable Development	Isabela State University - Main
120	Development and Field Testing of Retort Foods as Food Ration for Men in Uniform during Combat and High Risk Operations	Industrial Technology Development Institute

	<b>Project Title</b>	<b>Implementing Agency</b>
121	Technical Support for DOST Regional Food Innovation Centers (rFICs)	Industrial Technology Development Institute
122	Development of Competency on Establishment and Validation of Adequate Processes for Thermally Processed Food	Industrial Technology Development Institute
123	Development of Artificial Groundwater Recharge Facility for Drought and Flooding Mitigation	DOST CAR
124	Production of Dietary Fiber using Sugarcane Bagasse from Raw Sugar Manufacturing	Industrial Technology Development Institute
125	AQUADRONE: UAV Assisted Deployment System for Water Quality Monitoring	University of Santo Tomas
126	"Waste to Wealth": Value-Adding Approaches to Transform Cacao ( <i>Theobroma cacao</i> L.) Pod Husk Towards Economic Development	Isabela State University - Main
127	Heterojunction of Graphene-based composites for Membrane Applications in Covid19 Pandemic Mitigation	UP Diliman
128	Development of Multi-lingual Chatbot for Health Monitoring of Public School Children	De La Salle University
129	Development of a CNN and RNN topology for Impedance Spectroscopy Analysis	UP Los Baños
130	Design and development of intelligent traffic control and management system	Caraga State University
131	Establishment of a Mold Technology Support Center (MTSC)	Metals Industry Research and Development Center
<b>Growth of an Island Arc (GAIA): Tectonic Consequences and Human Impacts</b>		
132	Project 1. Evolution of the Luzon Arc: From igneous to sedimentary processes (GAIA)	UP Diliman
133	Project 2. Tectonic consequences of subduction in Northern Luzon (GAIA)	UP Diliman
134	Landslide Investigations on Geohazards for Timely Advisories in the Philippines (LIGTAS)	UP Los Baños
135	Marine and onshore geophysical investigations of the Manila subduction zone	UP Diliman
136	Pilot Testing of Packaging Technology Developed for frozen Durian using Locally Produced Packaging Materials	Industrial Technology Development Institute
137	Thermal Processing of Selected Materials Using Agitated-Type Retorts	Industrial Technology Development Institute
138	Synthetic Aperture Radar (SAR) and Automatic Identification System (AIS) for Innovative Terrestrial Monitoring and Maritime Surveillance	Advanced Science and Technology Institute
139	Knowledge Transfer to DOST Technical Staff: Catalyst to MSMEs' Gaining PQA for MSMEs	DOST Region IX

	<b>Project Title</b>	<b>Implementing Agency</b>
140	PROMT: Philippines Remediation of Mine Tailings (Large Grant)	Philippine Nuclear Research Institute
141	Processing of Coconut Monoglycerides (CMG) into Functionalized Polyols for Industrial Polyurethane Applications	Mindanao State University - Iligan Institute of Technology
142	Integrated assessment and analysis of hydraulic assets for sustainable and resilient flood control infrastructure	Cagayan State University - Carig
143	Development of a Local Cloud-Based Digital Apparel Prototyping Platform of the PTRI-Textile Product Development Center as a Response to the "Now Normal"	Philippine Textile Research Institute
144	Design, Development and Fabrication of the Different Parts and Assembly of e-Trike	Cagayan State University - Tuguegarao (Carig)
145	Robot for Optimized and Autonomous Mission-Enhancement Responses (ROAMER)	Advanced Science and Technology Institute
146	Harmonized Aerial Watch and Knowledge-based Survey (HAWKS)	UP Mindanao
147	Optimization of the GeoRiskPH Integrated System through Risk Assessments, Site Suitability Models and 3D Visualizations to Aid Policy and Decision-Making (3D Earth Risk)	Philippine Institute of Volcanology and Seismology
148	Development of high-resolution observation-based gridded sub-daily climate data for the Philippines (ClimGridPh)	Philippine Atmospheric, Geophysical and Astronomical Services Administration
	<b>BOONDOCK: A Mountain Engineering Center towards Sustainable Infrastructure and Upland Water Security</b>	
149	Slope Stability Analysis and Engineering Intervention for Rice Terraces and Road Infrastructures in Terrain Areas	Kalinga-Apayao State College-Main
150	Upland River and Spring Water Assessment and Management	University of the Cordilleras
151	Plant-Derived Biochar as Fabric-Based Electrode Materials for Supercapacitor Devices	University of Santo Tomas
152	Establishment of the PRR-1 Subcritical Assembly for Training, Education and Research (SATER)	Philippine Nuclear Research Institute
	<b>Philippine Sky Artificial Intelligence (SkAI-Pinas)</b>	
153	Automated Labeling Machine - Large - Scale Initiative (ALaM-LSI)	UP Mindanao
154	ASTI - Automated Labeling Machine (ASTI-ALaM)	Advanced Science and Technology Institute

**List of Completed Projects with Published Paper and/or filed/approved Patent**  
(2019 - 2021)

	<b>Project Title</b>	<b>Implementing Agency</b>
	<b>Institution Development Program</b>	
1	Enhancing the Natural Science Research Center Laboratories of Central Mindanao University	Central Mindanao University
2	Establishment of a Pampanga State Agricultural University (PSAU) Bio-energy Laboratory	Pampanga State Agricultural University
3	Establishment of Renewable Energy Laboratory and Demonstration Park	Isabela State University
4	Development of Geographic Information System (GIS) Innovation Laboratory	University of the Cordilleras
5	PUP College of Engineering Sensors and Mechatronics Laboratory	Polytechnic University of the Philippines
6	Establishment of a Plasma Physics Laboratory for Materials Processing Applications	UP Baguio
7	Establishment of a Plasma Laboratory for Materials Processing Applications	UP Diliman
8	UP Cebu Cybersecurity Research and Extension Center	UP Cebu
9	Establishment of an Additive Manufacturing Research Laboratory	Bataan Peninsula State University
10	Establishment of the University of San Carlos Center for Advanced Computational Modelling and Simulation (CACoMS)	University of San Carlos
11	Acquisition of Laboratory Equipment in Support of the facility for Nanotechnology R&D in Central Luzon State University	Central Luzon State University
12	Water - Energy - Nutrient Nexus in the Cities of the Future	De La Salle University
13	Regional Disaster Science and Management S&T Capacity Development (Phase III)	Mariano Marcos State University
14	Specific Earthquake Ground-Motion to help Enhance the Seismic Resiliency of Residential and Medium-to-High Rise Buildings in Metro Cebu and Metro Davao	Philippine Institute of Volcanology and Seismology
15	Metro Manila Transportation Network: Big Data Analytics and Applications (MMTN:BDAA)	De La Salle University
16	Binary Gels-Rheology of Two-Component Biopolymer Hydrogels Investigated Using Optical Tweezers and Non-Linear Rheometry	University of San Carlos
17	Optical Trap-Mediated Interaction Between Cancer Cells and Elucidated Compounds from Vegetable Extracts in PEMF (Pulsed Electromagnetic Field) Background Energy	De La Salle University

	<b>Project Title</b>	<b>Implementing Agency</b>
18	Ultrafast MBE-Grown Terahertz Photoconductive Antenna Devices	UP Diliman
19	Innovation And Technopreneurship Hub (ITech) (Caraga TBI)	Caraga State University
20	Enhancement of Prototype and Assessment of Product Marketability of Machibox (A Robotics Kit for Stem-Based Learning)	Machibox, Inc
21	Rurok Bikes: Variable Geometry And Efficient Suspension Pedalling Platform	Rurok Industries
<b>Geo-SAFER Mindanao: Geo-informatics for the Systematic Assessment of Flood Effects and Risks for a Resilient Mindanao</b>		
22	Project 1. Geo-SAFER Zamboanga Peninsula: Systematic Assessment of Flood Effects and Risks in the Zamboanga Peninsula, Mindanao, Philippines	Ateneo de Zamboanga University
23	Project 2. Geo-SAFER Northern Mindanao/ Cotabato: Systematic Assessment of Flood Effects and Risks in Northern Mindanao And Cotabato, Philippines	Central Mindanao University
24	Project 3. Geo-SAFER Agusan: Systematic Assessment of Flood Effects and Risks in the Agusan River Basin, Caraga Region, Mindanao, Philippines	Caraga State University
25	Project 5. Geo-SAFER Southeastern Mindanao: Systematic Assessment of Flood Effects and Risks in Southeastern Mindanao	UP Mindanao
26	One Click: Android/Web-based Student Response and Understanding Visualizer	Mapua University
27	Fringe-area Data Access by Transient Altitude Provision	De La Salle University
28	Techno - Economic Feasibility Study of Micro-Grid in A Remote Community	Mindanao State University - Iligan Institute of Technology
29	Development, Standardization, and Characterization Studies of Tupig, Bukayo, and Bibingka-Region 1 Native Delicacies	Pangasinan State University
<b>Geospatial Monitoring System for High Value Projects funded by DBM Program</b>		
30	Project 1. Monitoring and Assessment of Planting Activities and other Applications (MAPA2)	UP Diliman
31	Project 2. Remote Assessment for Irrigation Networks (RAIN)	UP Diliman
<b>Integrative Studies on the Geodynamics of the Philippine and Taiwan Arc System</b>		
32	Project 1. Investigating the Tectonic Evolution of Northern and Central Philippine Arcs through Geochemistry and Geophysics	UP Diliman

	<b>Project Title</b>	<b>Implementing Agency</b>
33	Project 2. Coastal Tectonics of Central Philippine Islands and Its Implications for Seismic Hazards	UP Diliman
34	Project 3. Geophysical Characterization of the Western Philippine Subduction Zones	UP Diliman
35	Upgrading and Enhancing the Capacity of the Packaging Technology Division in Packaging Research and Innovation	Industrial Technology Development Institute
<b>MECO-TECO: Improvement of Forecast Capability on Weather, Marine Meteorology and Short Range Climate</b>		
36	Project 1. Typhoon Formation, Structure and Intensity Change in Western NP and Wave Observation and Modeling	Philippine Atmospheric, Geophysical and Astronomical Services Administration
37	Project 2. Heavy Rain Monitoring and Forecasting in the Mountainous Area and Early Warning Landslides	UP Los Baños
38	Project 3. Observations and Dynamical Downscaling of Seasonal and Sub-seasonal Forecasts	Philippine Atmospheric, Geophysical and Astronomical Services Administration
39	Tracing the Pathways of Mercury Concentration in Mined-Out Area	Philippine Nuclear Research Institute
40	Promoting Innovative Philippine Nuclear Science and Technology Applications at the International Atomic Energy Agency (IAEA) General Conference Exhibition and IAEA General Conference Side Events/ Symposia	Philippine Nuclear Research Institute
41	Production of NanoCellulose Crystals: Powder, Advanced and Derivative Products for Various Industry Applications	Nanotronics, Inc.
<b>Natural Dyes and Colorants R&amp;D Program</b>		
42	Project 1. Commercial Scale Verification Of Natural Dyes For Textiles	Philippine Textile Research Institute
43	Project 3. Extraction, Characterization, and Application of Natural Colorants in Nutritional Food Products	Food and Nutrition Research Institute
44	Standards And Testing Automated Modular Platform (STAMP)	UP Diliman
45	Development of a Raman Microscopy and Spectroscopy (RMS) Setup	UP Diliman
46	Comparison of Different Enzyme Preparations for the Production of Oligofructose and Inulin from Sugarcane Juice	Cavite State University
47	Development of Ready-to-Eat Corn Grit Meals	UP Diliman
48	Cyber-physical Transportation System	UP Diliman
49	Recycling and Recyclability Index for End-of-Life Jeeps	University of Asia and the Pacific

	<b>Project Title</b>	<b>Implementing Agency</b>
	<b>Improvement of Production and Utilization of Abalone (Haliotis asinina) in MIMAROPA</b>	
50	Development of Bottom Housing System for Abalone Farming	Western Philippines University
51	Development of Food and Non-Food Products from Abalone	Marinduque State University
52	Development of Freeze-Dried Local Alternative Flavors for Ice Cream	Benguet State University
53	Pilot Implementation of ITDI's Pre-Commercialization Tools/ Strategies for Effective Transfer and Commercialization of Generated Technologies and Intellectual Properties	Industrial Technology Development Institute
54	Product Development and Commercialization of Iqube Home Kit	Tactiles Corporation
55	Establishment of the Technology Management System and Structure of the Ateneo De Manila University	Ateneo De Manila University
56	Development of Gourmet Salt Products and Micro-sized Salt in Laboratory Scale	Industrial Technology Development Institute
	<b>Integrated Assessment and Modelling of Blue Carbon Ecosystems for Conservation and Adaptive Management (IAMBlueCECAM)</b>	
57	Project 6. Suitability Models for Guiding Mangrove Replanting Efforts (SUITMAPS)	UP Diliman
58	Project 8. Multi Agent Systems for Simulating Policy Scenarios on Blue Carbon Ecosystems (BLUEMASSPOLIS)	UP Diliman
	<b>Development of a Fixed Wing Short Take-off and Landing (STOL) Unmanned Aerial Vehicle (UAV) for Disaster Risk Reduction and Management</b>	
59	Project 1. Design and Fabrication of an Airframe for Medium-Range, Short Take Off and Landing UAV	FEATI University
60	Project 2. Development of a Flight Controller for a Modular UAV	De La Salle University
61	Project 3. Cooperative UAV Missions and Applications with Custom Communications and Imaging Capabilities	Ateneo De Manila University
62	Design and Improvement of Gong Fabrication Processes Through S&T Intervention	Metals Industry Research and Development Center
63	Design and Development of a PLC-Based High Capacity Tissue Culture Growth Chamber	Cavite State University
64	Development and Social Media Reading Tool for Filipinos	Senti Labs Tech, Inc.
65	Beta Testing of Biotechnology Kits for Stem Education	Kinovette Scientific Solution Co.

	<b>Project Title</b>	<b>Implementing Agency</b>
66	Development of Data Analytics, Big Data, and Artificial Intelligence to Build A Smart Restaurant Management Platform	Restagraph, Inc.
67	Enhancement of K-12 Grading System Towards Intelligent Computing Environment through Wela School Innovation (Responsive Monitoring System For Educational Institution)	Wela School Systems
68	Development of Earthquake Intensity Monitoring System	Mapua University
<b>Development of the Philippine Scientific Earth Observation Microsatellite Program (PHLMicrosat)</b>		
69	Project 1. Microsatellite BUS Development for Philippine Microsat	UP Diliman
70	Monitoring and Evaluation of Batch II Complementary Food Technology Adoptors	Food and Nutrition Research Institute
71	Enhancement of Prototype and Market Readiness of R-TAP (an advanced pressure management system for water utilities)	Hiraya Technology Solutions Inc.
<b>Communicating Science for the People Program</b>		
72	Doubling The Reach through Information, Education and Communication (IEC) Campaign	Science and Technology Information Institute
73	Enhanced S&T Experience using Leading-Edge Learning Additions and Realities (STELLAR)	Science and Technology Information Institute
74	Strengthening the Core	Science and Technology Information Institute
<b>Nutritional Intervention Model in Time of ManMade Calamities -A Quick Response to Emergency</b>		
75	Project 1. Production of Nutritional Food Products for Conflict Stricken Areas	Food and Nutrition Research Institute
76	Project 2. Implementation of GarNESupp (Gardening, Nutrition Education, Supplementary Feeding) Model in Conflict-stricken area (Marawi)	Food and Nutrition Research Institute
77	Portable Potable Water Equipment for Disasters and Emergencies (PWEDE)	UP Diliman
78	Establishment of Spray Drying Technology and Equipment for the Regional FICs (Batch 2)	Industrial Technology Development Institute
79	Tabang MARAWI (Malnutrition Alleviation and Health Restoration through After-War Interventions)	Food and Nutrition Research Institute
80	Field Testing and Technology Validation of the E-Procurement System (ePS) for Government Agencies	Infodynamics Technologies
81	Summer Training Camp for High School Students on Genomics and Bioinformatics at the Philippine Genome Center	UP Diliman

	<b>Project Title</b>	<b>Implementing Agency</b>
82	Fabrication and Performance Evaluation of Abaca Fiber-Reinforced Composites for Boat Application	Industrial Technology Development Institute
83	Universal Sensing Meter for Instruction & Laboratory Experiments (U-SMiLE)	West Visayas State University
84	Generalized Automated Microfluidics and Micro-actuator Assembly (GAMMA)	UP Diliman
85	Angular Goos-Hänchen Shift: An Optical Phenomena for Ultra Thin Film Thickness Measurement	UP Diliman
86	Fabrication of Highly C-axis Oriented YBCO Superconducting Thin Films by Sedimentation Deposition	UP Diliman
	<b>μC-IC: Design of Microcontroller Integrated with Energy Harvesting and Power Management Program</b>	
87	Project 1. Development of Microprocessor for Wireless Sensor Network Application	Mindanao State University - Iligan Institute of Technology
88	Project 2. Power Management Unit using Low Drop-out Regulator and Switched Capacitor DC-DC Converters	Mindanao State University - Iligan Institute of Technology
89	Project 3. Design of Indoor Light Energy Harvesting for Wireless Sensor Network Applications	Mindanao State University - Iligan Institute of Technology
90	Flood Risk Assessment for Mitigation and Effective Response (FRAMER) of Riverine Towns in Selected River Basins in Cavite, Batangas, and Quezon Provinces using Most Recent LiDAR DEM	Mapua University
91	Geospatial Assessment and Modelling of Urban Heat Islands in Philippine Cities (GUHeat)	UP Diliman
92	Formulation of a Settlements Development Model in New Growth Areas in the Philippines	UP Diliman
93	Fire Check: Urban Fire Hazard Mapping and Fire Spread Modeling	UP Cebu
94	Sustainable Wastewater Treatment Systems with Nutrient (SWAN) Recovery	De La Salle University
95	MCWQM: Multi-platform and Cross-Sensor Water Quality Monitoring	UP Diliman
96	Electromagnetic Radar Technique For Water Detection	Mindanao State University - Iligan Institute of Technology
97	Post-Treatment of Food Processing Wastewater Effluent for Nutrient Removal	Industrial Technology Development Institute
98	Design review, design finalization and production assessment of a locally fabricated optical aerosol monitor (ROAM)	UP Diliman
99	Enhancing the applicability of Vertical Helophyte Filter Systems (VHFS) for Small Communities, Local MSMEs and Public Entity	University of Immaculate Conception

	<b>Project Title</b>	<b>Implementing Agency</b>
	<b>SCALE: Synergistic Capacity Advancement in the Management of Laguna Lake</b>	
100	Project 1. Antibiotics, Endocrine Disruptors and Heavy Metals in Laguna Lake Water: Impacts on Food and Water Security	UP Diliman
101	Project 2. Microbial Source Tracking in Selected Tributaries of Laguna de Bay	UP Diliman
102	Project 3. TRACe Fish – Trace Organics and Metals in Commodity Fish: Method Optimization, Extent of Contamination and Health Risk Due to Fish Intake	UP Diliman
103	Development of Food Reference Materials for Nutrition Labeling for Use of Local Testing Laboratories Phase 2: Establishment of ISO 17034:2016 QMS and Development of Fish Reference Materials for Proximate, Minerals and Cholesterol Analyses	Food and Nutrition Research Institute
104	Establishment of the PTRI “Perfect Fit” Textile Product Development Center	Philippine Textile Research Institute
105	Enhancement, Field Validation and Market Readiness Detection of DNA-based Nanobiosensor for the E. coli, E. coli 0157:H7 and Salmonella enterica in Food, Feed and Farm Produce	UP Los Baños
106	CharM - Charging in Minutes Spinoff Project - Technology Development for Manufacturability and Open-water Market Validation	UP Diliman
	<b>Funding Assistance for Spin-off and Translation of Research in Advancing Commercialization Program</b>	
107	Product Testing and Market Validation of Marine Nanocoat for Anticorrosion, Antibarnacle, AntiUV coating for ship applications	De La Salle University
108	MAPX: Manage Assets and Properties and Map for Visualization	Caraga State University
109	Commercial Development of Production, Application and Full Market Study of Monascus Red Colorant	UP Los Baños
110	Assistance in the Commercialization of DOST Funded Technologies in De La Salle University	De La Salle University
111	Support to the Commercialization of 500 DOST-Generated Technologies (Phase 2): Strengthening the Intellectual Property and Technology Portfolios of the DOST	Technology Application Promotion Institute
112	Mindanao Scale Up Program for DOST - iDEYA - TBI	Mindanao State University - Iligan Institute of Technology
113	Training and Internship Program for Increased Local Bioinformatics Utility and Expertise	UP Diliman

	<b>Project Title</b>	<b>Implementing Agency</b>
114	Development of a Wastewater Filtration System Using Indigenous Materials	Mariners Polytechnic Colleges Foundation of Canaman, Inc.
115	Development of an Alternative Credit Scoring Model applying Machine Learning in Financing Farmers	Cropital Enterprises Corporation
116	PCIEERD NSRI Research Grant	UP Diliman
117	Field and Market Testing of ILAWA: Renewable Power Generation Using Recycled Anodic Material for Small Fishing/Touring Vessels	Technological Institute of the Philippines
118	Fermentation and Purification Research to Produce Food Grade, Pharmaceutical-Grade, and Polymer Grade Lactic Acid	UP Mindanao
119	Prototype Development of Natural Fiber-Thermoplastic Composites from Agricultural and Industrial Wastes for Industrial Applications	Industrial Technology Development Institute
<b>Nanostructured Scaffolds from Natural Biomaterials for Biomedical Application</b>		
120	Project 1. Nanofibrous Scaffolds from Natural Biomaterials for Tissue Engineering	Industrial Technology Development Institute
121	Project 2: Nanostructured Scaffolds from Natural Fibers as Platforms for Stem Cell Growth and Differentiation	University of the Philippines-Diliman
122	Prototype Development of the Deepwater Operation 3D Visual Mapping and Inspection System (PD-DOMAINS)	Antipara Exploration Inc.
123	Enhancing Man-Machine Interaction through Intelligent Conversational Agents	De La Salle University
124	Development of a Passive Neutron Spectrometry System (PNSS)	Philippine Nuclear Research Institute
125	Remote Sensing and Data Science: DATOS Helpdesk	Advanced Science and Technology Institute
126	A Dispersive Long-Wave Model for Predicting Coastal Flooding due to Storm Surges and Surface Waves in Manila Bay	Philippine Atmospheric, Geophysical and Astronomical Services Administration
127	Mapping of offshore active faults for resilient coasts	UP Diliman
128	Development of an Effective Distribution System for RTE Retort Foods (Chicken Arroz Caldo and Smoked Fish Rice Meal) to Mitigate the Magnitude of Distress for Calamity Survivors and Providers of Services	Industrial Technology Development Institute
<b>ISALT: Improving Productivity and Efficiency of Local Salt Producers towards a Self-Reliant Philippines in 2020</b>		
129	Project 1. Design, Prototyping of Salt Processing Equipment (Washer, Dryer, Iodizer, Crystallizing Pan, Furnace, Concentrator (Ion exchange membrane)	Industrial Technology Development Institute

	<b>Project Title</b>	<b>Implementing Agency</b>
130	Assistance in the Commercialization of DOST Funded Technologies in Caraga State University	Caraga State University
131	Self-Healing Materials Based on Cyclodextrin and Ferrocene Self-Assembly towards Formulation of Coatings	Ateneo De Manila University
132	Establishment of Halal Assurance System for Bakery Products	Industrial Technology Development Institute
133	Development of a Design Guideline Using Finite Element Analysis (FEA) for Semiconductor Packages	De La Salle University - Science and Technology Complex
134	Development of a Philippine Indigenous Instrument Sounds Database	UP Diliman
135	Research and Development Project to Rehabilitate and Enhance Productivity in Lahar and Ash-Laden Areas in Central Luzon	Central Luzon State University
136	Development of a System that Can Determine and Classify the Layout Correctness of Integrated Circuit Layout Blocks using Machine Learning	University of Perpetual Help System - Dalta
137	Master of Research and Development Management	UP Open University
138	SPHERE: An Ultrawideband Technology based Innovation for Search and Rescue Operations in the Philippines	Mapua University
<b>Sustainable Mineral Resources in the Philippines</b>		
139	SAGES: Systems Approach for Greener, Eco-efficient and Sustainable mineral resource management	De La Salle University - Manila
140	Development of Urdaneta City Bagsakan Market Tariff Information Systems	Urdaneta City University
141	Optimization of Decision Support System for Effective e-Governance (ODeSSEE) on Preemptive Evacuation for Flood Disaster amidst Covid-19 in Cagayan Valley	Isabela State University - Cauayan
142	Helmet-Integrated Medium-Range IR Thermal Scanner	San Carlos College
143	Pilot Testing and Deployment of Automated Quarantine Control Checkpoint Mechanism in Support of National COVID - 19 Initiatives	DOST NCR
144	MBCO_FIELD TESTING OF MODULAR ECO-FRIENDLY DOMESTIC WASTE WATER (MEDoWW) MANAGEMENT FOR SMEs: Lodging Inns, Transient Housetels, Budget-Hotels and Commercial Establishments	Adamson University
145	Development of Inkjet CMYK Digital Printing Inks from Philippine Natural Dyes	Philippine Textile Research Institute

	<b>Project Title</b>	<b>Implementing Agency</b>
146	PATURO: Platform for Assessment and Tracking of Urbanization-Related Opportunities	Asian Institute of Management
147	Management of Dredged Materials: Characterization, Treatment, and Disposal (CharTeD DreaM)	Industrial and Technology Development Institute
148	Coastal Sea Level Rise in the Philippines (CSLR)	UP Diliman
149	ZEOSKIN: A Green Indoor Air Filter	Saint Louis University
150	Training Needs Assessment and Development and Deployment of Training Modules on Halal	DOST Region XI
151	Development of Low Heat and Low Humidity (LH)2 Drying System for DOST Malnutrition Reduction Program (DOST-MRP) Facilities	Food and Nutrition Research Institute
<b>Higher Education Institution Readiness for Innovation and Technopreneurship</b>		
152	Establishment of the DOST - Bicol University Technology Business Incubation (BU-TBI) Center for Bicol Region	Bicol University
153	Support for the Establishment of TBI in Holy Angel University (HAU)	Holy Angel University
154	DOST-Business incubation zone for Novel and Sustainable Enterprises (BizNEST) in Cagayan State University	Cagayan State University
<b>TBI 4.0 Program</b>		
155	Technology Business Incubator 4.0 for Region 4	Batangas State University
156	DOST-S.I.B.O.L. Labs: Startup Innovation and Business Opportunity Linkage Labs (A collaboration between UC Berkeley Sutardja Center for Entrepreneurship and Technology and UP Los Banos Technology Transfer and Business Development Office)	UP Los Baños
<b>Upgrading the PNS for Virgin Coconut Oil (VCO) and the Philippine VCO Industry</b>		
157	Project 1. Physico-chemical Factors which Affect the Quality of VCO	Ateneo de Manila University
158	Project 2. Investigation of the Microbiological Factors which Affect the Quality of VCO	Ateneo de Manila University
159	Project 3. Investigation of Factors Affecting the Sensory Properties and Acceptability of VCO	Ateneo de Manila University
160	Project 4. Assessment of VCO Production: GMP and HACCP	Ateneo de Manila University
161	Project 5. Water Activity and Percent Moisture: Effect on VCO Stability	Ateneo de Manila University

	<b>Project Title</b>	<b>Implementing Agency</b>
162	[Philippines] Catchment susceptibility to hydrometeorological events: sediment flux and geomorphic change as drivers of flood risk in the Philippines	UP Diliman
163	Assessing the Contribution of Food Banking Systems in Addressing Food Security	Rise Against Hunger Philippines
164	Establishing an Environment-Friendly Chromium Plating Process using New Generation Ionic Liquids	UP Diliman
165	Printed Electronic Devices for the New Normal: Temperature Sensor Patch, Electrochemical Sensor Array Patch for Face Masks and Air Circulators, and Antiviral Nanotech for Air Circulator Filters	Ateneo de Manila University
166	Testing, Calibration, and Fabrication of NeuronVent System	Neuronmek Corp.
167	Nanocellulose Self-Disinfecting (NACS) Filter: R & D Validation of an Innovative Low-Cost Nanotech-based Face Masks	Caraga State University
168	Pilot-Testing And Deployment of A Post Community Quarantine (CQ) Health Monitoring and Contact-Tracing Online System for The IT-BPM Sector	DOST Region VI
169	Scoping Study and Survey to Identify Key Environmental Problems of Industries in Valenzuela City	Polytechnic University of the Philippines
170	Advanced Satellite Development and Know-How Transfer for the Philippines	Advance Science Technology Institute
171	Non-Intrusive Sensor-based Prescriptive Maintenance Platform for Wire Manufacturing Factory	Ateneo de Manila University
172	Support to the Commercialization of 500 DOST Generated Technologies and Strengthening the Country's Intellectual Property and Technology Portfolios (Phase 3)	Technology Application and Promotion Institute
173	Application of Radiation Techniques in the Geochemical Characterization of Cobalt and other Valuable Metals in the Selected Metallic Deposits	Philippine Nuclear Research Institute
174	Design and Development of a Mechanical Garlic and Cashew Chipper	Holy Angel University
	<b>Comprehensive Evaluation of Critical Infrastructures and Construction Raw Materials in the Philippines using Concrete Petrography Program</b>	
175	Project 1. Concrete Petrography as a Quality Assessment Tool of Hardened Concrete from Lifeline Structures in the Philippines	UP Diliman

	<b>Project Title</b>	<b>Implementing Agency</b>
176	Strengthening of Industry Strategic Science and Technology Plan (ISP) Information System for Improved R&D Management	Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development
<b>DOST-JSPS</b>		
177	Radiation damage investigations on functional materials: Material development, analysis, and informatics	UP Diliman
178	Specific Earthquake Ground-Motion Levels to Help Increase the Seismic Resiliency of Government Infrastructures, Residential and Medium-to-High Rise Buildings in Pangasinan, Tarlac, Metro Iloilo-Guimaras, Cauayan City, Butuan City and Mati City	Philippine Institute of Volcanology and Seismology
179	Characterization and Resource Estimation of Valuable Rare Earth Elements (REEs) and Natural Radionuclides in the Philippine Coal and Feldspar Deposits	Philippine Nuclear Research Institute
180	Development of Emulsified Meat Products (Sausage, Nuggets, and Burgers)	Industrial Technology Development Institute
181	Technology Innovations for Mathematical Reasoning, Statistical Thinking and Assessment	Ateneo de Manila University
182	Center for Astronomy Research and Development: Astronomical Near-Earth Observation Light Pollution (ANEO-LiPo) Program	Rizal Technological University
183	Enhancement and Market Validation of Plasma Enhanced Chemical Vapor Deposition industrial Prototype for Nitride-Based Coatings	UP Diliman
184	Development of Chicken Egg White Powder and Granules from Low Value Edible Shell Eggs	UP Diliman
185	Geospatial Information Management & Analysis Project for Hazards & Risk Assessment in the Philippines (GeoriskPH)	Philippine Institute of Volcanology and Seismology
186	From Pest to a Valued Commodity: Black-Chin Tilapia ( <i>Sarotherodon melanotheron</i> ) for the Development of Surimi-Based Products Processing	Bataan Peninsula State University
<b>Severe Wind Hazard and Risk Assessment for Cebu City</b>		
187	Exposure Data Development and Severe Wind Risk Assessment for Cebu City	Philippine Atmospheric, Geophysical and Astronomical Services Administration
188	Severe Wind Hazard Mapping for the Philippines and Cebu City	Philippine Atmospheric, Geophysical and Astronomical Services Administration
189	Enhanced Severe Wind Vulnerability Curves of Key Building Types in the Philippines	UP Diliman
<b>INTELECT: Intelligent Electric Transportation Network</b>		
190	Project 3. E-trike Deployment and Utilization Study	Cagayan State University

	<b>Project Title</b>	<b>Implementing Agency</b>
	<b>Fishery by-products Processing for Application in Food</b>	
191	Project 1. Collagen and Gelatin from By-products of Fish Processing Industry	Central Luzon State University
192	Value-Added Product from Fruit Processing Wastes: Acetic Acid for Potential Industrial Application	UP Mindanao
193	Environmental, Health and Safety Research in the Risk Assessment of Nanomaterials (Phase 1)	Industrial and Technology Development Institute
194	Development of Regional Halal Native Delicacies	Mindanao Autonomous College, Foundation Inc.
195	Establishment of Halal Assurance System for Muslim Delicacies and Processing Techniques	Sultan Kudarat State University
196	Establishment of Halal Assurance System for Processing Selected Banana Products (Banana Chips, Banana Catsup, and Frozen "Saba" Banana)	Industrial Technology Development Institute
197	Development of Grading System for Adoption of Food Establishments in the Philippines	Food and Nutrition Research Institute
198	Prevalence of Mycotoxin in Rice and Corn in the Philippines	Food Development Center
199	Establishment of a niche center on environmental informatics in Central Visayas	UP Cebu
200	Providing High Resolution (5km) Climate Change Projections in the Philippines using Weather Research and Forecasting (WRF)	Philippine Atmospheric, Geophysical and Astronomical Services Administration
201	Enhancing Operational Capability of Palawan International Technology Business Incubator (PITBI)	Palawan State University
202	Development of Titanium Dioxide Films and its Derivatives for Semiconductor Mediated Photocatalytic Treatment of Water	UP Diliman
203	Utilization of Spent Tea Leaves and Tobacco Dust as Additives for Plywood Adhesive	Forest Products Research and Development Institute
	<b>3R Approach to Sustainable Management of Nickel Laterite Ore Tailings: Reuse, Recycling and Reprocessing for Environmental Remediation and Material Valorization</b>	
204	Project 1. Utilization of Nickel Laterite Ore rock (low grade) for various applications: Acid Mine Drainage treatment and Carbon Sequestration	De La Salle University
	<b>Smart Plant Production in Controlled Environments</b>	
205	Project 1. Standalone Urban Farm	UP Diliman

	<b>Project Title</b>	<b>Implementing Agency</b>
206	Project 2. Sensor-based Monitoring and Analytics for Smart Hydroponics (SMASH)	UP Diliman
207	Project 3. Establishment of Soilless Culture Technology for Urban Food Production	UP Diliman
208	Project 4. Ex-Situ Conservation through Micropropagation and Cryopreservation of Native Plant Species	UP Diliman
	<b>Processing of Bio-based Polyols and Polyurethanes for Industrial Application</b>	
209	Project 1. Production of Bio-based Polyols from Lignocellulosic Biomass	Mindanao State University - Iligan Institute of Technology
210	Project 2. Development of Polyurethane-based Packing Materials and Anti-corrosive Coatings from Vegetable Oil	Mindanao State University - Iligan Institute of Technology
	<b>Analyzing CORDEX-SEA Regional Climate Simulations for Improved Climate Information over the Philippines: SST Influence, Variability and Extremes, Tropical Cyclone Activity</b>	
211	Detecting Tropical Cyclones in a Downscaled Regional Climate Model for CORDEX-SEA	Ateneo De Manila University
212	Multitemporal and Extremes Analysis of Modeled Climatology over the Philippines in the SEA Cordex Domain	Ateneo De Manila University
213	Analysis of the influence of sea surface temperature representation in downscaled regional climate using the SEACLID/CORDEX-Southeast Asia simulation	Ateneo De Manila University
214	Polyhydroxyalkanoate (PHA) Production from Agricultural Wastes	National Institute of Molecular Biology and Biotechnology