

INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

2023 Completed Projects

No.	Project Title	Date Started	Completion Date		Status
			Original	Revised	
CHEMICALS AND ENERGY DIVISION					
1	RDR-CED-2021-03 Development of Microcontroller & Minicomputer Applications for Selected Equipment units of the MMIC and a Bench-Scale Hydrothermal Carbonization Equipment of the CED Laboratory	01-Jan-2021	31-Dec-2021	31-Mar-2023	Completed
2	RDR-CED-2022-04 Screening of Biological Activities and Secondary Metabolites from Two (2) Endemic Species of Vanoverberghia (Zingiberaceae) and their Application as a Topical Product	1-Aug-2022	31-Jul-2023	31-Dec-23	Completed
3	RDR-CED-2023-01 Production of Fish Oil from by-products of Local Fish Processors and its Application in Personal Care Products	01-Jan-23	31-Dec-23		Completed
4	RDR-CED-2023-02 Optimization Study on the Co-production of Activated Carbon and Bio-oil Spent Coffee Grounds	01-Jan-23	31-Dec-23		Completed
5	RDR-CED-2023-03 Utilization of Okara byproduct from Taho/Tofu Production through the Development of Stabilizer/Emulsifier for Personal Care Products	1-Jan-2023	31-Dec-2023		Completed
6	RDA-CED-2022-01 Product Development of Okara: From Soybean Processing By-Product to Hight Energy Protein Ready to Drink Product	1-Sep-2022	31-Aug-2023	31-Dec-2023	Completed
ENVIRONMENT AND BIOTECHNOLOGY DIVISION					
7	RDR-EBD-2022-03 Microbial and Chemical Profile of Kombucha Tea made from Different Symbiotic Colonies of Bacteria and Yeasts (SCOBYs) in the Philippines Phase 2. Chemical Profile and Antioxidant Activity of Kombucha (Year 2)	01-Jan-23	31-Dec-23		Completed
8	RDR-EBD-2022-05 Carbon Capture using PDMS/PVDF thin film Composite Membranes	1-Jan-2022	31-Dec-23		Completed
9	RDR-EBD-2022-06 Operation of the DOST Sewage Treatment Plan (STP) and Development of Strategies for Water Reuse	1-Jan-2022	31-Dec-23		Completed
10	RDR-EBD-2022-07 Qualitative and Quantitative Assessment of Microplastics along the key sites of Laguna de Bay, Philippines	1-Jan-2022	31-Jun-23	31-Dec-23	Completed
11	RDR-EBD-2023-01 Utilization of Septic Sludge for Biogas and Compost Production using a Portable Biogas Digester	01-Jan-23	31-Dec-23		Completed
12	RDR-EBD-2023-02 Utilization of Coffee Beans Waste for Enzyme Production Using Isolated Fungal Strains	01-Jan-23	31-Dec-23	31-Mar-2024	Completed
13	RDR-EBD-2023-03 Implementation of an Effective Solid Waste Management Program for ITDI: Part 1 - Assessment and conduct of Waste Analysis and Characterization Study (WACS)	01-Jan-23	30-Sep-23		Completed
14	RDA-EBD-2022-01 Comparative Study Between Standard Methods and Philippine Made PM and CO Measuring Devices-Y1	17-Jan-2022	16-Jan-2023		Completed
15					
15	RDA-FPD-2021-06 Development of Competency on Establishment and Validation of Adequate Processes for Thermally Processed Food	1-Apr-2022	31-Mar-2023		Completed
16	RDA-FPD-2021-09 Production of Dietary Fiber using Sugarcane Bagasse from Raw Sugar Manufacturing	1-Apr-2021	31-Mar-2022		Completed
		1-Apr-2022	31-Mar-2023		
17	RDR-FPD-2022-03 Improvement of Exterior Features of Existing Horizontal Water Spray Retort with Timing Control System Upgrade	1-Apr-2022	31-Mar-2023		Completed
18	RDR-FPD-2022-05 Ultrasonic Assisted Extraction (UAE) and Microencapsulation of Virgin Coconut Oil (VCO): Study 2: Validation of UAE Process of VCO	1-Apr-2022	31-Dec-2022	31-Mar-2023	Completed
19	RDR-FPD-2022-01 Development of Shelf Stable Randang Sauce	1-Feb-2022	30-Jun-2023		Completed
20	RDR-FPD-2022-06 Safety and Quality Evaluation and Testing of DOST-ITDI Developed Cacao Roaster Equipment	1-Oct-2022	30-Sep-2023		Completed
21	RDR-FPD-2023-05 Development of Shelf Stable Intermediate Moisture (IM) Chevon Products (Jerky and Chinese-Style Sausage) using Hurdle Technology	1-Jan-2023	31-Dec-2023		Completed
22	RDR-FPD-2023- 01 Development and Pilot Scale Production of Shelf-Stable Food Products as Ready Food Reserve	1-Jan-2023	31-Dec-2023		Completed

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23	RDR-FPD-2023-06 Test Marketing Implementation and Soft Launching of Thermally Processed Randang Sauce	1-Jul-2023	31-Dec-2023		Completed
MATERIAL SCIENCE DIVISION					
24	RDR-MSD-2023-01 Application of 3D Printing in Arts and Designs for Creative and Handicraft Industries: 3D Printing Application for Bespoke Designs in Baked Products	1-Jan-2023	31-Dec-2023		Completed
25	RDR-MSD-2023-02 Application of 3D Printing in Arts and Designs for Creative and Handicraft Industries: 3D Printing Application in Designing Products for the Pottery Industry	1-Jan-2023	31-Dec-2023		Completed
26	RDR-MSD-2023-03 Laboratory Scale Production of Porous Bi-phasic Calcium Phosphate Bioceramic Orbital Implant (Phase 1)	1-Jan-2023	31-Dec-2023		Completed
27	RDR-MSD-2023-04 Stereolithography-Fabricated All Ceramic Dental Crown using Locally Available Materials (Year 1)	1-Jan-2023	31-Dec-2023		Completed
28	RDR-MSD-2023-05 Recycling of Postconsumer Multilayer Plastics Packaging (PMPP) - Phase 1	1-Jan-2023	31-Dec-2023		Completed
29	RDR-MSD-2023-06 Cellulose Nanocrystals (CNC) derived from Ananas Comosus leaves for Industrial and Medical Applications: Phase 2-Functionalization and Applications Testing	1-Jan-2023	31-Dec-2023		Completed
30	RDR-MSD-2023-07 Design, Optimization and Prototyping through Simulation and 3D Printing with PVDF/PES Membrane Development of a Hollow Fiber Membrane Module for Emergency Water Supply Treatment	1-Jan-2023	31-Dec-2023		Completed
31	RDA-MSD-2023-05 Training of Trainers Program (ToT) on Nanotechnology	1-May-23	1-Jul-23		Completed
32	RDA-MSD-2022-01 Nanotexturing of Stainless Steel 316L by Electrochemical Etching for Biological Implants (CRADLE Project)	1-Jan-2022	31-Dec-2022	30-Sep-2023	Completed
PACKAGING TECHNOLOGY DIVISION					
33	RDR-PTD-2021-04 Development of Three (3) New RTE Disaster Relief Foods for Vulnerable Groups (elderly and children)	1-Apr-2021	31-Mar-2022		Completed
		1-Apr-2022	31-Mar-2023		
34	RDR-PTD-2022-04 Development of intelligent packaging colorimetric sensor as total volatile basic nitrogen (TVBN) indicator (Phase 2)	2-Feb-2022	31-Dec-2023		Completed
35	RDR-PTD-2021-02 Development of random vibration test procedures/methods using Acquired shock and vibration data in the last leg delivery of small products within Metro Manila	1-Aug-2021	30-Jun-2023		Completed
36	RDR-PTD-2021-06 Preliminary Study on Epoxidized Soybean Oil Migrating from Metal Closure into Bottled Spanish-Style Sardines	1-Jul-2021	28-Feb-2023		Completed
37	RDR-PTD-2022-01 Development of Brand Name and Label Design for Unique Philippine Products (Phase 3)	2-Jan-2022	30-Jun-2023		Completed
38	RDR-PTD-2022-02 A Preliminary Study on the Exposure assessment of Filipino Consumers to phthalates migrated from plastic-based materials used as packaging for food and Beverages	2-Feb-2022	31-Dec-2023		Completed
39	RDR-PTD-2022-06 Fabrication and Testing of Fiber – Based Cushion Pads and Partition Boards Derived from Pineapple Waste for Transport of Fresh Produce	2-Feb-2022	31-Dec-2023		Completed
40	RDR-PTD-2022-07 Utilization of Biochar as green active packaging in prolonging the overall freshness of high-value agricultural produce (Cavendish Banana and Okra)	1-Apr-2022	31-Aug-2023		Completed
41	RDR-PTD-2022-08 Validation and Optimization of the Developed Packaging Technology for Pork Lechon (old title: Pilot Testing of Packaging Technology for Pork Lechon)	01-Jun-2022	30-Dec-2023		Completed

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CHEMICALS AND ENERGY DIVISION					
42	RDA-PTD-2021-01 Development and Field Testing of Retort Foods as Food Ration for Men in Uniform during Combat Operations and Other High Risk Operations	1-Feb-2021	31-Aug-2023		Completed
43	RDA-PTD-2021-02 Pilot Testing of Packaging Technology Developed for Frozen Durian using Locally Produced Packaging Materials	16-Apr-2021	Sept. 30, 2023		Completed
STANDARDS AND TESTING DIVISION					
44	RDR-STD-2022-03 Capacity Building for Preservative Efficacy Test (PET) for Cosmetics	1-Jan-2022	30-Sep-2023	31-Dec-2023	
45	RDR-STD-2023-01 Development and Validation of Ion Chromatographic Method for the Determination of Water-Soluble Anions in Concrete and Related Materials	1-Jan-2023	31-Dec-2023		
46	RDR-STD-2023-02 Program: Enhancement of ITDI-STD Fuel Testing Services Phase 2: Development of Charcoal In-house Quality Control Material for Proximate and Ultimate Analysis in Solid Fuels	1-Jan-2023	31-Dec-2023		
47	RDA-STD-2019-01 Upgrading of ITDI-Laboratory Animal Facilities in Support for Tuklas Lunas and Other DOST Programs, and Industry Needs	4-Nov-2019	3-Nov-2021	May 3, 2023	
48	RDA-STD-2022-01 Establishment of Halal Assurance Management System and Halal-Compliant Standardized Process for Spa Skincare Products for the Halal Tourism Industry	1-Jan-2022	30-Jun-2023	31-Oct-2023	
NATIONAL METROLOGY DIVISION					
49	RDR-NMD-2022-01 Development of Real-Time Data Acquisition Program for High Accuracy Machine Indicators using Artificial Neural Network	1-Jan-2022	31-Dec-2022	30-Sep-2023	Completed
50	RDR-NMD-2023-01 Upgrading High-capacity Manual Mass Comparators through Development of an Automated Rotary Multi-Position Weighing System	1-Jan-2023	31-Dec-2023		Completed
Enhancement of the Competence and Capabilities of the National Metrology Laboratory of the Philippines					
51	RDRD-2017-NMD-01 Project 1 : Chemical Metrology for Organic Contaminants in Food and Water	1-Jan-2017	31-Dec-2023		Completed
52	RDRD-2017-NMD-02 Project 2 : Chemical Metrology for Inorganic Toxic Elements in Food and Water	1-Jan-2017	31-Dec-2023		Completed
53	RDRD-2017-NMD-03 Project 3 : Biological Metrology for Microorganisms in Food	1-Jan-2017	30-Nov-2023		Completed
54	RDRD-2017-NMD-04 Project 4: Strengthening the Physical Metrology Capabilities of the National Metrology Laboratory (NML)	1-Jan-2017	30-Jun-2022		Completed