

INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

2024 Completed Projects as of Q4

No.	Project Title	Date Started	Completion Date		Status
			Original	Revised	
CHEMICALS AND ENERGY DIVISION					
1	RDA-CED-2021-02 Green Oils and Phytochemicals from Cashew, Pili, Tomato seeds and Rubber Seeds	16-May-2021	15-May-2023	15-May-2024	Completed
2	RDA-CED-2023-07 Mycobacterium Tuberculosis EA12-Manila Strain-Derived Immunogenic Protein Subunits for TB Vaccine Development	11-Jun-2023	10-Oct-2024		Completed
3	RDA-CED-2023-08 Valorization of Post-Processing By-Products Generated from Industrial-Scale Production of Peanut Butter	1-Oct-2023	30-Sep-2024		Completed
4	RDA-CED-2024-02 Utilization of Banana Peel Wastes from Agro-Industrial Processing as Alternative Flour and Dietary Fiber Source and Its Applications	1-Jan-2024	31-Dec-2024		Completed
5	RDR-CED-2023-04 Development of a Laboratory Scale Process for the Monolaurin Synthesis using Various Basic Catalysts	1-Jul-2023	31-Jun-2024		Completed
6	RDR-CED-2024-04 Design of Sodium-Ion Battery using Renewable Materials for Solar PV System Energy Storage	1-Jan-2024	31-Dec-2024		Completed
ENVIRONMENT AND BIOTECHNOLOGY DIVISION					
7	LFP-EBD-2021-01 Isolation and Purification of Philippine Common Viruses with Medical Importance and Pandemic Potential for Antigen-Antibody Studies	1-Jul-2021	30-Jun-2022	30-Jun-2024	Completed
8	RDA-EBD-2022-02 Deployment of Drinking Water Treatment System for Selected Indigenous People (IP) Communities in the Province of Tarlac	31-Jan-2022	31-Jan-2023	Revision 1: 31-July-2023 (approved) Revision 2: 31-January-2024 (approved)	Completed
9	RDA-EBD-2023-3 Computational Design of Multi-epitope Subunit Vaccines for Protection against Pathogenic Swine Viruses	1-Feb-2023	31-Jan-2024		Completed
10	RDA-EBD-2023-05 Improving Sustainability & Ensuring Safety of DOST-Developed Solid Waste Management Technologies Adopted by CEST Communities in the NCR through Assessment of Composting Operation and Product Quality	1-Jul-2023	30-Jun-2024		Ongoing
11	RDA-EBD-2023-01 Mitigating Tannery Pollution in Meycauayan	1-Jan-2023	31-Dec-2023	31-Oct-2024	Completed
12	RDA-EBD-2023-02 Virtual Screening of Secondary Metabolites Derived from Philippine Medicinal Plants for Potential Antiviral Activity Against Pathogenic Swine Viruses	January 1, 2024	31-Dec-2024		Completed
13	RDR-EBD-2020-03 Bioactive Substances from Actinomycetes Isolated from Different Sources Phase 2. Production, purification and characterization of the bioactive substances Phase 3	1-Jan-2020	31-Dec-2022	1-Jul-2024	Completed
14	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
15	RDR-EBD-2023-06 Implementation of an Effective Solid Waste Management Program for ITDI: Part II - Formulation of SWM Plan and Site Identification and Design of Materials Recovery Facility	01-Oct-23	31-Dec-24		Completed
16	RDR-EBD-2022-07 Qualitative and Quantitative Assessment of Microplastics along the key sites of Laguna de Bay, Philippines	1-Jan-2024	30-Jun-2024		Completed
17	RDR-EBD-2022-06 Operation of the DOST Sewage Treatment Plan (STP) and Development of Strategies for Water Reuse	1-Jan-2024	30-Jun-2024		Completed
FOOD PROCESSING DIVISION					
18	RDA-FPD-2023-01 (TECHNICOM Program): Scale-up Production and Technology Validation of DOST-ITDI Ready-to-Eat Boiled Quail Eggs	23-Mar-2023	22-Mar-2024		Completed

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19	RDR-FPD-2023- 02 Thermal Processing Applications in Plant-based Meat Alternative Food Products	1-Jan-2023	31-Dec-2024		Completed
20	RDA-FPD-2021-08 Thermal Processing of Selected Materials Using Agitated-Type Retort	16-May-2021	31-Dec-2021	20-Jul-2023 5-Nov-2024	Completed
21	RDR-FPD-2023- 06 Prototyping of an Isochoric Freezing Equipment	1-Jan-2023	31-Dec-2024		Completed
22	RDR-FPD-2024- 01 Ultrasonic Assisted Extraction (UAE) and Microencapsulation of Virgin Coconut Oil (VCO) (Phase 3: Microencapsulated VCO Prototype Testing and Validation in Relevant Environment	1-Jul-2024	31-Dec-2024		Completed
23	RDR-FPD-2024- 04 Design and Development of an Excel-based Calculation Software for Thermal Validation Studies	1-Jan-2024	30-Jun-2024		Completed
24	RDR-FPD-2024- 05 Application of Sous-Vide Technology in Selected Traditional Filipino Meat Dishes	1-Jan-2024	31-Dec-2024		Completed
25	RDR-FPD-2024- 06 Extraction and Characterization of Protein from Yardlong Bean/ Sitaw Bean (Vigna unquiculata subsp. Sesquipedales (L.) Verdc)	1-Apr-2024	30-Sep-2024	31-Dec-2024	Completed
26	RDR-FPD-2024- 07 Design and Development of a Batch Spray-type Pasteurizer	1-Jan-2024	31-Dec-2025		Completed
27	RDR-FPD-2024- 09 Market Testing of Shelf Stable Intermediate Moisture (IM) Chevron Meat Products	1-Jan-2024	31-Dec-2024		Completed
28	RDR-FPD-2024-02 Development of Chicken and Beef-based Soup Mixes Through Freeze Drying	1-Jan-2024	31-Dec-2024		Completed
29	RDR-FPD-2024-03 Prototype Development of self-heating Packs for Food Application	1-Jan-2024	31-Dec-2024		Completed
MATERIALS SCIENCE DIVISION					
30	RDA-MSD-2023-02 Method Optimization of Digestion and Extraction of Microplastics in Milkfish (Chanos Chanos) (PCAARD)	1-Jan-23	31-Dec-24		Completed
31	RDA-MSD-2023-03 Modernization of Microplastics and Heavy metals testing in Milkfish using Thermogravimetry – Gas Chromatography /Mass Spectrometer (TG-GC/MS) and X-ray Fluorescence (XRF) (PCAARD)	1-Jan-23	30-Apr-24		Completed
32	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 (Phase 2)	1-Jan-2024	31-Dec-2024		Completed
33	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 (Phase 2)	1-Jan-2024	31-Dec-2024		Completed
34	RDR-MSD-2024-03 Bioceramic Research and Innovation (BRain) Performance Testing of Nano-Zinc Doped Calcium Phosphate Bioceramic Implant using Local Calcium Carbonate	1-Jan-2023	1-Dec-2024		Completed
35	RDR-MSD-2024-04 Bioceramic Research and Innovation (BRain) Project 2: Development of Customizable Ceramic Femoral Prostheses through the aid of 3D Printing and Slip Casting Method	1-Jan-2024	1-Dec-2024		Completed

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36	RDR-MSD-2024-05 Nano TiO ₂ Coating System for Solar Panel Application	1-Jan-2024	1-Dec-2024		Completed
37	RDR-MSD-2024-06 Extend Producers Responsibilities (EPR) Innovative Solution Program Project 1: Recycling of Postconsumer Multiplayer Plastics Packaging (PMPP) Phase 2 Production and Performance Testing of Plastic Boards from Waste Multilayer Plastic Packaging	1-Jan-2024	1-Dec-2024		Completed
38	RDR-MSD-2024-07 Extend Producers Responsibilities (EPR) Innovative Solution Program Project 2: Development of Monolayer Polyethylene Nanoclay Composite for Food Packaging Application	1-Jan-2024	1-Dec-2024		Completed
39	RDR-MSD-2024-08 Extend Producers Responsibilities (EPR) Innovate Solution Program Project 3: Nanoclay-Loaded Cellulose-based Film for Packaging Application	1-Jan-2024	1-Dec-2024		Completed
40	RDR-MSD-2024-09 Application of Intelligent Data Analysis System (IDAS) for Oxidation State Analysis of Copper (Cu) Leadframe using Auger Electron Microprobe	1-Jan-2024	1-Dec-2024		Completed
41	RDR-MSD-2024-10 Facile Sythesis of Carbon Microsphere from Polypropylene Plastic Wastes for Wastewater Treatment	1-Jan-2024	1-Dec-2024		Completed
42	RDR-MSD-2024-11 Stereolithography-Fabricated all Ceramic Dental Crown using Locally Available Materials (Year 2)	1-Jan-2023	1-Dec-2024		Completed
NATIONAL METROLOGY DIVISION					
43	RDA-NMD-2022-01 Development and Provision of Proficiency Test Scheme in Shrimp Product for Local Microbiological Laboratories	1-Nov-2021	31-Oct-2023	31-Jan-2024	Completed
44	RDA-NMD-2022-02 Capability Enhancement of Local Laboratories in the Determination of Inorganic Toxic Elements in Aquacultured Milkfish through Proficiency Testing Scheme	1-Oct-2021 1-Dec-2021 (approved)	30-Nov-2023	30-May-2024	Completed
45	RDA-NMD-2022-03 Design And Development of A Subsonic Wind Tunnel System For Airspeed Realization And Calibration	1-Oct-2022	30-Sep-2023	30-Sep-2024	Completed
46	RDR-NMD-2024-01: Development and validation of tertiary pH measurement system based on Cell V of IUPAC Recommendation 2002	1-Jan-2024	1-Dec-2024		Completed
47	RDR-NMD-2024-02: Method Validation of electrolytic conductivity (EC) measurement using conductivity meter and production of EC reference material	1-Jan-2024	1-Dec-2024		Completed
PACKAGING TECHNOLOGY DIVISION					
48	RDR-PTD-2023-01 Method Validation and Determination of Per/Polyfluoroalkyl Substances (PFAS) in Locally-Available Paper-Based Food Packaging using LCMSMS	03-Jan-2023	31-Dec-2023	29-Feb-2024	Completed

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49	RDR-PTD-2023-02 Development of Packaging cushion made of Coconut husk as Transport packaging material for non-food products	03-Jan-2023	31-Dec-2023	30-Jun-2024	Completed
50	RDR-PTD-2023-03 Field Testing of RTE retort foods (chicken corn soup and ginisang munggo) as disaster relief foods – Phase 2	03-Jan-2023	31-Dec-2024	31-Dec-2023 31-Mar-2024	Completed
51	RDA-PTD-2021-03 Upgrading of capability of distribution centers/trading posts in the delivery of fresh and semi-processed agricultural products in the supply chain: Focusing on packaging technology and logistics	1-May-2021	30-Apr-2023	31-Aug-2024	Completed
52	RDR-PTD-2023-02 Development of Packaging cushion made of Coconut husk as Transport packaging material for non-food products	03-Jan-2023	31-Dec-2023	30-Jun-2024	Completed
53	RDR-PTD-2024-01 Preliminary study on the development of adlai (Coix-lacryma-jobi L.) as alternative staple food (Phase 1)	1-Jan-2024	1-Dec-2024		Completed
54	RDR-PTD-2024-02 Method Development and Validation of Total UV-Absorbing Contaminants Migrating from Monolayered Polyethylene and Polypropylene Films to Food Simulants	1-Jan-2024	1-Dec-2024		Completed
55	RDR-PTD-2024-03 Anti-Insect (Ants) Biodegradable Packaging: Chitosan/Polyvinyl Alcohol-Based Packaging Film for Packaged Food Products	1-Jan-2024	31-Dec-2024		Completed
56	RDR-PTD-2024-04 Development of Pectin-Based Biodegradable Packaging from Mango Peel	1-Mar-2024	31-Dec-2024		Completed
57	RDR-PTD-2024-05 Profiling and Designing of Packaging on Consumers using Survey Method	01-Apr-2024	01-Sep-2024		Completed
STANDARDS AND TESTING DIVISION					
58	RDR-STD-2024-01: Validation of the Test Method for the Determination of Insoluble Dietary Fiber, Soluble Dietary Fiber and Total Dietary Fiber in Rice	1-Jan-2024	1-Dec-2024		Completed
TECHNOLOGICAL SERVICES DIVISION					
59	RDA-2021-TSD-02 Development of Mobile Modular Food Processing Facility (MMFPF)	1-May-2021	30-Apr-2023	30-Apr-2024	Completed
PLANNING AND MANAGEMENT INFORMATION SYSTEMS DIVISION					
60	RDA-PMISD-2023-01 Technical Services Certificates Verifiable Credentials Using Blockchain Technology	1-Jun-23	31-May-24		Completed