

INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE						
2025 Projects Implemented						
No.	Project Title	Date Started	Completion Date		Status	Project leader
			Original	Revised		
CHEMICALS AND ENERGY DIVISION						
1	RDA-CED-2021-04 Development of a PCR-based detection kit for Philippine Tomato Yellow Leaf Curl Virus (TYLCV) strains	01-Sep-2021	31-Aug-2024	31-Aug-2025	Ongoing	EGPanerio
2	RDA-CED-2021-05 Establishment of Fuel Cell R&D and Testing Facility	1-Sep-2021	13-Nov-2024	31-Mar-2025	Ongoing	RPPareño
3	RDA-CED-2023-04 Upscaled Production of Pectin from Calamansi Wastes	1-Mar-2023	29-Feb-2024	30-Sep-2025	Ongoing	EGPanerio
4	RDA-CED-2023-05 Innovative Approach in Delivering Syringic Acid Using Metal Organic Framework as Drug Carrier	18-Jul-2023	17-Jul-2025		Ongoing	JHSantos
5	RDA-CED-2023-06A VRV Biobanking P1: Biorepository of Human Respiratory Virus with Risk Group Level 2 Infections in selected tertiary hospitals in Luzon	29-May-2023	28-May-2025	28-May-2025	Ongoing	MTADimamay
6	RDA-CED-2023-06B VRV Biobanking P2: Molecular Profiles and Biobanking of Vector-Borne Viruses in Selected Hospitals in Luzon	1-May-2024	28-May-2025	28-May-2025	Ongoing	MTADimamay
7	RDA-CED-2024-01 Bench-Scale Monolaurin Production for Food Application	18-Dec-2023	31-Mar-2025	17-Jun-2025	Ongoing	KCCAganda
8	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	31-Dec-2025	Ongoing	DVBarcelon
9	RDR-CED-2024-01 Synthesis of Nano-cellulose Fiber from Okara as Potential Component for Proton Exchange Membrane (PEM) in Fuel Cell	1-Jan-2024	31-Dec-2024	31-Mar-2025	Ongoing	MGYao
10	RDR-CED-2024-03 Development of Sustained Release Essential Oil Based Polymeric Patch Formulation from Wastes of Citrus Limon and Citrus Grandia (L.,) Osbeck (Rutaceae) Peels as Mosquito Repellent	1-Jan-2024	30-Jun-2025		Ongoing	AMTJacinto
11	RDR-CED-2024-05 Laboratory Scale Production of Chemically Activated Carbon from Peanut and Coconut Shell	1-Jan-2025	31-Dec-2025		Ongoing	KCCAganda
12	RDR-CED-2025-3 Pectin Prebiotic Supplement: Formulation and Toxicity Studies	1-Jan-2025	31-Dec-2025		Ongoing	EGPanerio
13	RDR-CED-2025-1 Design and Prototyping of Sodium-Ion Battery Using Renewable Materials for Solar PV System Energy Storage (Phase 2) - Upscaling Full-Cell Capacity and Overall Performance Enhancement	1-Jan-2025	31-Dec-2025		Ongoing	MLMYsulat
14	RDR-CED-2025-2 Valorization of Agro-Industry Processing Waste and By-Products through the Modular Multi-Industry Innovation Center (MMIC)	1-Jan-2024	31-Dec-2024		Ongoing	OCEvangelista
ENVIRONMENT AND BIOTECHNOLOGY DIVISION						
15	LFP-EBD-2021-02 Combination Therapy: Lytic Bacteriophages and Plant Extracts against Multidrug-Resistant Bacteria	1-Jul-2021	30-Jun-2024	30-Jun-2025	Ongoing	UGBigol/ RJGestuevo
16	LFP-EBD-2021-03 Detection of food and water-borne bacterial pathogens using phage-based diagnostics	1-Jul-2021	28-Feb-2025		Ongoing	GJMSikat

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17	LFP-EBD-2021-04 De novo synthesis of a non-Infective Flaviviridae pseudovirion: Initial development of a template for a safer conduct of Zika-related diagnostics research in the Philippines	1-Jul-2021	28-Feb-2025	30-Jun-2025	Ongoing	UGBigol/ RJGestuevo
18	LFP-EBD-2021-05 Development of a Real Time Polymerase Chain Reaction for Point of Need Detection for African Swine Fever Virus (ASFV)	1-Jul-2021	30-Jun-2024	30-Mar-2025	Ongoing	JGJose
19	RDA-EBD-2022-01 Comparative Study Between Standard Methods and Philippine Made PM and CO Measuring Devices	17-Jan-2023	16-Jan-2024	15-Jan-2025	Completed	DCPangayao
20	RDA-EBD-2023-3 Computational Design of Multi-epitope Subunit Vaccines for Protection against Pathogenic Swine Viruses	1-Feb-2023	31-Jan-2025		Completed	FOrosco
21	RDA-EBD-2024-03 Generation of a Plant Virus Vector for Protein Expression and Functional Gene Analysis in Abaca and Banana RDA-CED-2023-01 (for year 1)	1-Jan-2023	31-Dec-2024	31-Dec-2025	Ongoing	FOrosco
22	RDA-EBD-2024-06 Biological Control Potential of Bacteriophage Cocktails for Bacterial Diseases of Papaya RDA-CED-2023-02 (for Y1 up to Y2 (Q2))	1-Jan-2023	31-Dec-2025		Ongoing	FOrosco
23	RDA-EBD-2023-06 Establishment of the Biodegradability, Eco-toxicity, and Compostability Testing Facility in the Philippines (BEC-lab)	1-Dec-2023	30-Nov-2025		Ongoing	GJSikat
24	RDA-EBD-2024-04 Development of a Vector-Based African Swine Fever Virus Vaccine Using a Hepatitis E Virus Nano Particle Platform Y1	1-Apr-2024	30-May-2025		Ongoing	JPG.Jose
25	RDA-EBD-2024-05 Implementation of an Integrated Solid Waste Management in DOST	1-Oct-2024	30-Sep-2025		Ongoing	DL Herrera
26	RDR-EBD-2023-05 Development of Algal-Bacterial (ALBA) Wastewater Treatment System for Swine Industry (Phase 2)	1-Jul-2023	30-Jun-2024	31-Mar-2025	Completed	MLEbarvia
27	RDR-EBD-2024-01: Determination of prevalence of Per- and polyfluoroalkyl substances (PFAS) in groundwater resources in selected household communities in Laguna	1-Jan-2024	31-Dec-2024	30-April-2025	Completed	RDPerez
28	RDR-EBD-2024-02: Detection and Monitoring of Chlorinated Ethenes and Organohalide Respiring Bacteria in the Philippine Water Bodies	1-Jan-2024	31-Dec-2025		Ongoing	DM. Saiyari
29	RDR-EBD-2024-04: Improvement of Long-Term Preservation Protocols for Industrially Important EBD-ITDI Microbial Isolates	1-Jan-2024	31-Dec-2025		Ongoing	UG. Bigol
30	RDR-EBD-2024-07: Development of Solar Powered Standalone Desalination System for Coastal Areas: Integration with SAFEWATRS and Reverse Osmosis Technology	15-Apr-2024	14-Oct-2025		Ongoing	PJMargarito
31	RDR-EBD-2024-08: Updating of Chemical and Hazardous Waste Management System of ITDI	15-Apr-2024	14-Apr-2025		Ongoing	CJLatosa
32	RDR-EBD-2024-06: Evaluate the Effectiveness of Different Constructed Wetland Systems in the Removal of Organic Matter from the Effluent coming from the DOST Sewage Treatment Plant (STP) to Improve its Potential for Reuse	1-Jul-2024	31-Dec-2025		Ongoing	GA. Diopol
33	RDR-EBD-2025-01: Implementation of an Effective Solid Waste Management Program for ITDI: Part III - Establishment and Operation of an Institutional Materials Recovery Facility (MRF)	1-Jan-2025	31-Dec-2025		Ongoing	JR.Barcelo
34	RDR-EBD-2025-04: Health and Safety Assessment of Potential Non-Environmentally Acceptable Products/Packaging (NEAP)	1-Apr-2025	30-Sep-2025		Ongoing	DCPangayao

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35	RDR-EBD-2025-03:Scaling-up of ITDI electric plastic densifier	1-Apr-2025	30-Jun-2026		Ongoing	DCVergara
36	RDR-EBD-2025-02:Prototyping of biogas-septic tank system using a 1,000 L Portable Biogas Digester	1-Apr-2025	31-Mar-2026		Ongoing	DL Herrera
37	RDR-EBD-2025-05:Screening of commercial soil amendments for development of standard inoculant for biodegradation test	1-Apr-2025	31-Mar-2026		Ongoing	GJMSikat
FOOD PROCESSING DIVISION						
38	RDA-FPD-2023-02 (PCIEERD GIA): Stability and Extraction Yield Enhancement of Anthocyanin Pigments from Roselle and Cooked Ube Peels through the Ultrasound Assisted Extraction (UAE) Method	1-Apr-2024	31-Mar-2025	31-Mar-2026	Ongoing	MBMacaraeg
39	RDA-FPD-2025-01 Utilization of Out-of-Specification Saba Bananas from Banana Chip Production in the Development of Shelf-Stable Banana Products	1-Jan-2025	1-Dec-2025		Ongoing	MRManalo
40	RDA-FPD-2024-01 Test Application of Air Classification Technology for Plant Proteins, Starches and Fibers from Mung Bean as Food Ingredients (ITDI Component)	1-Aug-2024	Jun 2026		Ongoing	RMGomez
41	RDR-FPD-2024- 07 Design and Development of a Batch Spray-type Pasteurizer	1-Jan-2024	31-Dec-2025		Ongoing	RBarcala, Jr.
42	RDR-FPD-2024- 08 Process Improvement, Automation, and Upscaling of ITDI-Developed Acetator	1-Jan-2024	31-Dec-2025		Ongoing	JCOcasla
43	RDR-FPD-2025-01 Process Development and Field Testing using MMFPF Aseptic Line for Shelf Stable Coconut Water and Coconut Milk in Aseptic Bags	1-Jan-2025	31-Dec-2025		Ongoing	RMBelandres
44	RDR-FPD-2025-02 Quality Improvement Through Agitated Retort Processing of Selectyed Thermally Processed Local Products: Coconut Milk and its Based Products and Ube Puree/ Jam	1-Jan-2025	30-Jun-2026		Ongoing	MRManalo
45	RDR-FPD-2025-03 Development of High Fiber and High Protein Composite Flour for Food Industry Application	1-Jan-2025	31-Dec-2025		Ongoing	RMGomez/ ACFlores
46	RDR-FPD-2025-04 Development of Food Pilot Plant and Innovation Center (FPPIC) Task Management System	1-Jan-2025	31-Dec-2025		Ongoing	AVMCarvajal
47	RDR-FPD-2025-05 Ensuring Quality and Authenticity of Philippine Calamansi Juice Extracts Through Chemical and Physico-Chemical Profiling and Chemometric Analysis	1-Apr-2025	31-Mar-2026		Ongoing	MEEvaristo
MATERIALS SCIENCE DIVISION						
48	RDA-MSD-2022-02 3D-ABI: Development and Performance Evaluation of Biocompatible Materials and Pore Design Structure for 3D Printed Artificial Bone Implants	9-Nov-22	8-Nov-23	8-Nov-25	Ongoing	MTMargarito
49	RDA-MSD-2023-01 Development, Characterization and performance Evaluation of polymer-coated and Uncoated Aluminum and titanium Alloy Powder for Selective Laser Sintering , Selective Laser melting and Electron Beam Melting (DOST Assisted /PH – India)	25-Jan-23	24-Jan-25		Completed	MTMargarito

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64	RDA-NMD-2023-01 Enhancing the Quality of Measurement of Local Testing Laboratories in the Philippines for the Analysis of Toxic Elements in Mussels through Proficiency Testing Scheme	1-Jan-2023	30-Dec-2024	30-Jun-2025	Ongoing	AT Junsay
65	RDA-NMD-2023-02 Aligning The Capabilities of Metro Manila's Local Legal Metrology Authorities to the Asean Guidelines for Non-Automatic Weighing Instruments (NAWI) and Fuel Dispensers	1-Jul-2023	30-Jun-2024 (Y1) 31-12-2024 (Y2)	31-Dec-2025	Ongoing	JG Trillana
66	RDA-NMD-2024-01 Facility for Optimized Calibration of Infusion System (FOCuS)	1-Apr-2024	31-Mar-2026		Ongoing	JMD Latosa
67	RDR-NMD-2022-02: Performance Evaluation of the NML's Developed 1 Mega Newton Force Transducer Calibration System using a Master Load Cell and Force Generating Machine	1-Jan-2024	1-Dec-2025		Ongoing	AC Gernale
68	RDR-NMD-2025-01: Provision of Proficiency Testing Scheme on Determination of pH in Drinking Water	2-Jan-2025	31-Dec-2025		Ongoing	AC Dacuya
69	RDR-NMD-2025-02: PT Scheme and Long-term Stability of Arsenic, Cadmium, Mercury, and Lead in Food Reference Materials	2-Jan-2025	31-Dec-2025		Ongoing	CJ Gatchalian
70	RDR-NMD-2025-03: Application of Bacterial Microencapsulation Protocol for Reference Material Preparation	2-Jan-2025	31-Dec-2025		Ongoing	NML Dela Cruz
PACKAGING TECHNOLOGY DIVISION						
71	RDA-PTD-2024-01 Application of Retort Pouch Packaging Technology in the Development of Shelf Table Ready to Eat Adlai Products (Coix-lacryma-jobi L.)	18-Dec-2023	17-Dec-2026		Ongoing	GDNoceja
72	RDA-PTD-2024-02 Migration Studies on Hazardous Contaminants from Locally-Available Food Contact Materials and Articles Proj. 1 Organic Contaminants Migration from Plastic and Paper Food Contact Materials and Articles Proj. 2 Inorganic Contaminants Migration from Plastic Food Contact Materials and Articles	1-May-2024	30-Apr-2026		Ongoing	P1: EKP Encarnacion P2: FV Loberiano
73	RDR-PTD-2025-01 Carrageenan-Egg White-Edible Sachet (CEWES): A Sustainable Packaging Replacement for Instant Noodle Powdered Seasoning	01-Jan-2025	1-Dec-2025		Ongoing	A. Basbasan, Jr.
74	RDR-PTD-2025-02 Method Development and Validation of Total Oxidizable Contaminants Migrating from Monolayered Low Density Polyethylene and Polypropylene Films by Single Extraction and Titration	1-Jan-2025	1-Dec-2025		Ongoing	E.K. Encarnacion
75	RDR-PTD-2025-03 Data Acquisition of Shock and Vibration Data in Local Air Cargo within the Philippines	1-Jul-2025	30-June-2026		Ongoing	E.T. Nolasco
76	RDR-PTD-2025-04 Simulation Study on the Development of Collapsible Toilet Bowl for Emergency/Disaster Operations Ph 2	1-Jan-2025	1-Dec-2025		Ongoing	E. S. Orendain
77	RDR-PTD-2025-05 Development and Evaluation of Performance and Safety of Self-heating Packs for Food Application	1-Jan-2025	1-Dec-2025		Ongoing	F. Loberiano
78	RDR-PTD-2025-06 Application of Pineapple Leaf Fiber-Based Cushion Pads as Auxiliary Packaging for Honeydew Melon	01-Jan-2025	01-Jun-2026		Ongoing	M.J. Paico
79	RDR-PTD-2025-07 Actual Market Simulation (AMSA) Planogram Method Ph 2	01-Jan-2025	01-Dec-2026		Ongoing	R.J. A. Abary
STANDARDS AND TESTING DIVISION						
80	RDA-STD-2022-02 Validation and Standardization of Chemical Test Methods on Allergens and Preservatives Food Safety Parameters Among DOST Laboratories	1-Oct-2022	31-Sept-2025		Ongoing	MRV Parcon

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81	RDA-STD-2022-03 Smarter OneLab for Industry 4.0 through Testing and Calibration, Education, and Discovery (OneLab for TED)	1-Jan-2023	31-Dec-2025		Ongoing	AV Briones
82	RDA-STD-2024-01: Green Extraction of Philippine Agricultural Wastes for the Development of Cosmetic Lyophilized Active Ingredients in Microcapsules (CLAIM) against Skin Oxidative Stress	1-Jan-2024	1-Dec-2025		Ongoing	MRV Parcon