

INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

2022 completed projects as of Q4

No.	Project Title	Date Started	Completion Date		Status
			Original	Revised	
CHEMICALS AND ENERGY DIVISION					
1	RDA-CED-2020-02 Design and Prototyping of Salt Harvesting Machine	1-Mar-2020	28-Feb-2021		Completed
		1-Mar-2021	28-Feb-2022	31-Oct-2022	
2	RDA-CED-2020-03 Nanostructured Herbal Extract of Momordica charantia (Bitter melon/Ampalaya), Allium sativum (Garlic) and Curmuma longa L. (Turmeric) as Antidiabetic Agents	1-Aug-2020	31-Jul-2021	Feb 28, 2022	Completed
3	RDA-CED-2021-01 Deployment of Energy Monitoring Application and Network at DOST (DEMAND) as Demonstration Sites	8-Feb-2021	8-Aug-2022		Completed
4	RDA-CED-2021-03 Government Energy Management Program (GEMP) Compliance Assessment of Local Government Units (LGUs)	05-May-2021	04-May-2022	4-Nov-2022	Completed
5	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	28-Feb-2022	Completed
6	RDR-CED-2021-04 Sensory and Physicochemical Refinements in Some Personal Healthcare Products using Calamansi Essential Oils	1-Aug-2021	31-Dec-2021		Completed
		1-Jan-2022	31-Jul-2022		
7	RDR-CED-2022-01 Development of Copper-Based Nanomaterial as Additional Layer for Masks	1-Jan-2022	31-Dec-2022		Completed
8	RDR-CED-2022-02 Design of Energy Material from Biomass-derived Starting Material as Nanofiller for Fabrication of Hybrid Composite for Fuel Cell Application	1-Jan-2022	31-Dec-2022		Completed
ENVIRONMENT AND BIOTECHNOLOGY DIVISION					
9	RDA-EBD-2020-02 Cataloging Possible Philippine Strains of Zika and African Swine Fever Viruses and Coconut Cadang-Cadang Viroid through Genome Sequencing	1-Jul-2020	1-Mar-2021	1-Mar-2022	Completed
10	RDA-EBD-2022-03 Waste Analysis and Characterization Study (WACS) in Public Markets: Support to Effective Solid Waste Management of Selected Public Markets in Manila	1-Dec-2021	30-Sep-2022		Completed
11	RDA-EBD-2022-04 Economic and Life Cycle Analysis of Single-use Plastic in the Philippines	1-Aug-2021	31-Jul-2022		Completed
12	RDR-EBD-2020-04 Design, Modeling, and Simulation of an Improved In-vessel Composting System	17-Feb-2020	31-Dec-2020		Completed
		1-Jan-2021	31-Dec-2021		
		1-Jan-2022	31-Dec-2022	30-June-2022	
13	RDR-EBD-2020-05 Development of Air Biofilters for the Control of Ammonia	17-Feb-2020	31-Dec-2020		Completed
		1-Jan-2021	31-Dec-2021	31-March-2022 30-June-2022	
14	RDR-EBD-2020-07 Upgrading of the Emergency Water Disinfection System	1-Mar-2020	31-Dec-2021	31-Jan-2022	Completed
15	RDR-EBD-2021-03 Biofilm inhibitory activity of Talisay (Terminalia catappa L.) leaf extract against shrimp pathogen Vibrio sp. and its potential as feed supplement Phase 1	1-Jan-2021	31-Dec-2021	31-March-2022	Completed

16	RDR-EBD-2022-01 Pilot-Scale Anaerobic Digestion of Fruit and Vegetable Waste for Biogas Production CENMACO, Inc.	1-Jan-2022	31-Dec-2022		Completed
17	RDR-EBD-2022-02 Biofilm inhibitory activity of Talisay (<i>Terminalia catappa</i> L.) leaf extract against shrimp pathogen <i>Vibrio</i> sp. and its potential as feed supplement Phase 2: Immunomodulatory effects of Talisay-supplemented feed on <i>Vibrio</i> -challenged whiteleg shrimp (<i>Penaeus vannamei</i>)	1-Jan-2022	31-Dec-2022		Completed
18	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 1. Phenotypic and Genotypic Characterization of Microorganisms Responsible for Kombucha Fermentation (Year 1)	1-Jan-2022	31-Dec-2022		Completed
19	RDR-EBD-2022-04 Detection of Enteroviruses (EnV) in Wastewater System using Polymerase Chain Reaction (PCR)	1-Feb-2022	31-Jan-2023		Completed
20	RDR-EBD-2021-01 Development of an Algal-Bacterial (ALBA) Wastewater Treatment System	1-Jul-21	31-Dec-21	30-Jun-2022 (Completed
FOOD PROCESSING DIVISION					
21	RDA-FPD-2020-11 Plant Protein Products from Local Sources	1-Jul-2020	30-Jun-2021		Completed
		1-Jul-2021	31-Dec-2022		
22	RDA-FPD-2021-01 Development of Halal Compliant Dehydrated Food Products from Selected Food Materials (Fruits, Vegetables and Rootcrops)	1-Jan-2021	31-Dec-2021		Completed
		1-Jan-2022	31-Dec-2022		
23	RDA-FPD-2021-02 Establishment of Halal Assurance System For Selected Food Ingredients (Dried and Powdered Onions, Garlic, Black Pepper and Chilli)	1-Jan-2021	31-Dec-2021	22-Mar-2022	Completed
24	RDA-FPD-2021-03 Development of Draft Standards and Recommended Code of Practice for Processing of Peanut Butter	1-Jan-2021	Dec 31 2021		Completed
		1-Jan-2022	Jun 1 2022	Sep 30, 2022	
25	RDR-FPD-2021-01 Modified Texturization Procedures of Restructured Fruits for Thermal Processing Applications	1-Jan-2021	31-Dec-2021	31-Mar-2022	Completed
26	RDR-FPD-2021-02 Thermal Process Validation of Traditional and Ethnic Bottled Products- Acidified-Pasteurized Vegetables (Ubo, Ampalaya and Mixed Vegetables)	1-Jan-2021	31-Dec-2021	31-Mar-2022	Completed
27	RDR-FPD-2021-04 Improvement of Functional Components of Existing Horizontal Water Spray Retort	1-Apr-2021	31-Mar-2022		Completed
28	RDR-FPD-2021-03 Development of Potential Natural Antimicrobial from Local Food Ingredients and Food Application	1-Mar-2021	31-Dec-2021	30-Jun-22	Completed
29	RDR-FPD-2022-02 Physicochemical characterization of Used Palm Olein and Coconut Oil from Vacuum Frying of Okra and Carrots as Affected by the Frying Cycle	1-Feb-2022	31-Dec-2022		Completed

30	RDR-FPD-2022-04 Pilot Scale Production and Market Testing of GAD-Developed Shelf Stable Food Products	1-Jan-2022	1-Dec-2022		Completed
MATERIALS SCIENCE DIVISION					
31	RDA-MSD-2019-01 Program: Advanced Additive Manufacturing R & D Project 1: Development of Multiple Materials Platform for Additive Manufacturing (MATDEV)	1-Jan-2018	31-Dec-2019		Completed
		1-Jan-2020	31-Dec-2021		
		1-Jan-2021	31-Dec-2021	31-Dec-2022	
32	RDA-MSD-2021-01 ADMATEL Expansion towards Long Term Competitiveness and Sustainability- Phase 2: ADMATEL geared for PHL Industry 4.0	1-Jan-2021	31-Dec-2021	31-Dec-2022	Completed
		1-Jan-2022	31-Dec-2022		
33	RDR-MSD-2022-01 Porous Inorganic Nanocarriers In Drug Delivery System - Year 2	1-Jan-2022	31-Dec-2022		Completed
34	RDR-MSD-2022-02 3D-Printed Carbon-based Flexible Piezoresistive Wearable Sensor for Smart Device Gesture to Speech Applications - Phase 2	1-Jan-2022	31-Dec-2022		Completed
35	RDR-MSD-2022-03 Development of an Antimicrobial Wound Dressing from Bacterial Cellulose-Nanoclay composite - Phase 2	1-Jan-2022	31-Dec-2022		Completed
36	RDR-MSD-2022-04 Cellulose Nanocrystals (CNC) derived from Ananas Comosus leaves for Industrial Applications and Biomedical Applications - Phase 1	1-Jan-2022	31-Dec-2022		Completed
37	RDR-MSD-2022-05 Development of Bioinspired Composite Membrane Separators for Advanced Rechargeable Lithium-ion Batteries - Phase 2: Evaluation and Testing of the Bioinspired Membrane Separators in Rechargeable Lithium-ion Batteries	1-Jan-2022	31-Dec-2022		Completed
PACKAGING TECHNOLOGY DIVISION					
38	RDR-PTD-2021-03 Quality and Safety Monitoring of Chilled Ready to Heat/Eat Foods Using Intelligent Packaging with Time Temperature Indicators	1-Apr-2021	31-Dec-2021		Completed
		1-Jan-2022	31-Mar-2022		
39	RDR-PTD-2022-03 Development of Four Generic Cushion Designs Made from Corrugated Boards for Non-Food Product Protection	2-Feb-2022	31-Oct-2022		Completed
40	RDR-PTD-2022-05 Preliminary Consumer Safety Studies on PFAS (Per- and Poly-Fluoroalkyl Substances) in Paper-Based Packaging of Most Common Takeout and Delivery Food Products During the COVID-19 Pandemic	2-Feb-2022	31-Jul-2023	Dec. 31, 2022 The project was declared by TRC as completed. So duration was shortened.	Completed
PLANNING AND MANAGEMENT INFORMATION SYSTEMS DIVISION					
41	RDA-PMISD-2021-01 Development of FIC Competency in Moving New Products from Concept to Market Launch	1-Jan-2021	31-Dec-2021		Completed
		1-Jan-2022	30-Jun-2022		
STANDARDS AND TESTING DIVISION					
42	RDR-STD-2021-01 Development and Validation of HPLC Methods for Food Samples	1-Jan-2021	31-Dec-2021 1-Jan-2022	31-Mar-2022	Completed

43	RDR-STD-2022-01 Program: Enhancement of ITDI-STD Fuel Testing Services Phase 1: Validation of Test Methods for Self-heating, Proximate and Ultimate Analyses in Coconut Shell-based Charcoal Briquettes and Activated Carbon	1-Jan-2022	31-Dec-2022		Completed
44	RDR-STD-2022-02 Development of Internal Quality Control Material (IQCM) for Anions in Aqueous Solution from Laboratory Chemical Wastes	1-Jan-2022	31-Dec-2022		Completed
45	RDR-STD-2021-02 Development of Soil Quality Control Material for As, Cd, Hg, and Pb	1-Jan-2021	31-Dec-2021	31-Dec-2022	Completed
46	RDR-STD-2022-04 Validation of Test Method for the Determination of Arsenic in Fish	1-Jan-2022	31-Mar-2023		Completed
47	RDA-STD-2021-02 Towards Leveling-up OneLab for Research, Development and Innovation	1-Feb-2021	31-Jan-2022	30-Apr-2022	Completed