

INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE
Ongoing Projects as of Q1 2021

No.	Project Title	Date Started	Completion Date		Project Leader
			Original	Revised	
CHEMICALS AND ENERGY DIVISION					
1	RDR-CED-2019-01 Natural Hydrocolloid as Alternative Emulsifier and Stabilizing Agent from Okra (<i>Hibiscus esculentus</i>) Pods	01-Jan-20	31-Dec-20	31-Mar-21	OC Evangelista
2	RDR-CED-2020-02 Processing of Anti-freezing Agent for Biodiesel	17-Feb-20	31-Dec-20	31-Mar-21	CA Bulan
3	RDR-CED-2020-03 Development of Uninterruptible Power Back-Up System Using Motor Control for Lighting Applications as Sample Electrical Load	17-Feb-20	01-Jan-21	31-Mar-21	FE Del Pozo Jr.
4	RDR-CED-2020-04 Catalytic Hydrogenation and Transesterification of Highly Unsaturated Fatty Acids from Rubber Seed Oil	17-Feb-20	31-Dec-20	31-Mar-21	VFR Ablang
5	RDR-CED-2020-05 Bench-scale Production of Curcumin from Philippine Turmeric using Different Extraction Methods	01-Jan-20	31-Dec-20	31-Mar-21	EA Ongo
6	RDR-CED-2021-01 Isolation, characterization and utilization of waste lignin in biobased adhesives	01-Jan-21	31-Dec-21		CAG Bilbao
7	RDR-CED-2021-02 Scale Up of Power Back-Up System for Large Equipment	01-Jan-21	31-Dec-21		FE Del Pozo Jr.
8	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-21	31-Dec-21		JL Herrera
9	RDA-CED-2020-02 Design and Prototyping of Salt Harvesting Machine	1-Mar-2020	28-Feb-2022		OC Evangelista
10	RDA-CED-2020-03 Nanostructured Herbal Extract of <i>Momordica charantia</i> (Bitter melon/Ampalaya), <i>Allium sativum</i> (Garlic) and <i>Curcuma longa</i> L. (Turmeric) as Antidiabetic Agents	1-Aug-2020	31-Jul-2021		EA Ongo
11	RDA-CED-2021-01 Deployment of Energy Monitoring Application and Network at DOST (DEMAND) as Demonstration Sites	08-Feb-21	08-Aug-22		AVO Bawagan
ENVIRONMENT AND BIOTECHNOLOGY DIVISION					
12	RDR-EBD-2020-01 Development of a Fermentation Product (Kimchi-Filipino adaptation) from locally-grown vegetables using indigenous LAB isolates as starter culture	1-Jan-2020	31-Dec-2020	31-Mar-21	EG Panerio
13	RDR-EBD-2020-03 Bioactive Substances from Actinomycetes Isolated from Different Sources Phase 1. Isolation and Screening of Actinomycetes from soil, soil/ plant litter and soil/ compost mixtures	1-Jan-2020	31-Dec-2022		UG Bigol
14	RDR-EBD-2020-04 Development of an Improved In-vessel Composting System	17-Feb-2020	31-Dec-2022		DL Herrera / JT Tuazon
15	RDR-EBD-2020-05 Development of Air Biofilters for the Control of Ammonia	17-Feb-2020	31-Dec-2021		CS Valdecanas
16	RDR-EBD-2020-06 Dissolved Copper Removal from Semiconductor Wastewater Effluent by Electrowinning Process	17-Feb-2020	31-Dec-2021		JC Tejano
17	RDR-EBD-2020-07 Upgrading of the Emergency Waster Disinfection System	1-Mar-2020	31-Dec-2021	30-Jun-2021	DC Vergara

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18	RDR-EBD-2021-01 Development of an Algal-Bacterial (ALBA) Wastewater Treatment System	1-Jul-2021	31-Dec-2021		PF Margarito
19	RDR-EBD-2021-02 Surface-Modified Zeolite Adsorbent System for VOC Pollutants in Indoor Air Laboratories	1-Jan-2021	31-Dec-2022		JC Tejano
20	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	1-Jan-2021	31-Dec-2021		JD Guzman
21	RDA-EBD-2020-01 Integrated Mapping, Monitoring, Modelling and Management System for Manila Bay and Linked Environments (IM4ManilaBay) Project 3: Management of Dredge Material: Characterization, Treatment and Disposal (CharTed DreaM)	1-Jul-2020	31-Jan-2021		RL Esguerra
22	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	12/1/2021 For approval of PCHRD	GM Sikat
23	RDA-EBD-2019-05 Support to the Sustainable Environmental Management in Malay, Aklan Project 2: Development of a Compact Wastewater Treatment System for Restaurants in Boracay Island	15-Jul-2019	15-Jul-2020	30-Jun-2021	RL Retamar
FOOD PROCESSING DIVISION					
24	RDR-FPD-2020-01 Development of Alternative Techniques for Okra Flakes/Sheets Processing	1-Apr-2020	31-Dec-2020	30-Jun-2021	MEM Falco
25	RDR-FPD-2020-03 Establishment of Food Safety System for High Risk Bakery Products for Public Consumption	1-Jan-2020	31-Dec-2020	30-Jun-2021	LS Montevirgen
26	RDR-FPD-2020-05 Improving the Quality of Deep-Fat Fried Cassava Chips	1-Sept-2020	30-May-2021		JC Ocsala
27	RDR-FPD-2020-06 Natural Flavorings from Local Sources as Food Additive Study 1: Optimization of Spray Drying of Flavors from Fermented Fish and Shrimps	1-Apr-2020	31-Dec-2020	30-Jun-2021	MDL Villasenor
28	RDR-FPD-2021-01 Modified Texturization Procedures of Restructured Fruits for Thermal Processing Applications	1-Jan-2021	31-Dec-2021		JC Ocala
29	RDR-FPD-2021-02 Thermal Process Validation of Traditional and Ethnic Bottled Products- Acidified-Pasteurized Vegetables (Ubod, Ampalaya and Mixed Vegetables)	1-Jan-2021	31-Dec-2021		LS MONTEVIRGEN
30	RDR-FPD-2021-03 Antimicrobial Activity of Natural Food Ingredients (PDS)	1-Jan-2021	31-Dec-2021		MEM FALCO
31	RDR-FPD-2021-04 Improvement of Functional Components of Existing Horizontal Water Spray Retort	1-Apr-2021	31-Dec-2021		RT Barcala
32	RDR-FPD-2021-05 Ultrasonic Assisted Extraction (UAE) and Microencapsulation of Virgin Coconut Oil (VCO): Study 1: Development of UAE and Microencapsulation Processes. Study 2: Bench Scale Production of Three Processes	1-Mar-2021	31-Dec-2022		MDL Villasenor
33	RDR-FPD-2021-06 Development of New Shelf Stable Food Products from Fruits, Grains and Vegetables (GAD Project Phase 3)	1-Jan-2021	31-Dec-2021		MBA Macaraeg

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34	RDA-FPD-2018-03 Establishment of Halal Assurance System for Processing Selected Banana Products (Banana Chips, Banana Catsup, and Frozen Banana)	1-Aug-2018	1-Aug-2018	31-Jan-2021	MEM Falco
35	RDA-FPD-2018-06 Development of Emulsified Meat Products (Sausage, Nuggets and Burgers) for Halal Market	1-Aug-2018	1-Aug-2018	1-Jul-2021	ME Evaristo
36	RDA-FPD-2020-11 Plant Protein Products from Local Sources	1-Jul-2020	30-Jun-2022		MME Falco
37	RDA-FPD-2021-01 Development of Halal Compliant Dehydrated Food Products from Selected Food Materials (Fruits, Vegetables and Rootcrops)	1-Jan-2021	31-Dec-2023		MME Falco
38	RDA-FPD-2021-02 Establishment of Halal Assurance System For Selected Food Ingredients (Dried and Powdered Onions, Garlic, BlackPepper and Chillii)	1-Jan-2021	31-Dec-2021		LS Montevergin
39	RDA-FPD-2021-03 Development of Draft Standards and Recommended Code of Practice for Proccerssing of Peanut Butter	1-Oct-2020	30-Sept-2021		MDL.Villasenor
40	RDA-FPD-2021-04 Developing the Capability of Micro-and Small-Scale Processors on the Evaluation and Manufacture of Quality Food Products from Philippine Cocoa Beans	1-Nov-2020	31-Oct-2021	1-Feb-2021	NG Ambagan and MDL Villasenor
41	RDA-FPD-2021-05 Technical Support for DOST Regional Food Innovation Centers (rFICs) with 3 Sub-Projects/Studies	1-Mar-2021	1-Dec-2022		MDLVillasenor
42	RDA-FPD-2021-06 Sub Project : 03 Development of Competence on Establishment and Validation of Adequate Processes for Thermally Processed Food	1-Mar-2021	1-Dec-2022		MDLVillasenor
43	RDA-FPD-2021-08 Thermal Processing of Selected Materials Using Agitated-Type Retort	1-Jan-2021	1-Dec-2022		NG Ambagan
44	RDA-FPD-2021-09 Production of Dietary Fiber using Sugarcane Bagasse from Raw Sugar Manufacturing	1-Apr-2021	31-Mar-2023		RM Gomez
MATERIALS SCIENCE DIVISION					
45	RDR-MSD-2021-01 3D-Printed Carbon-based Flexible Piezoresistive Wearable Sensor for Smart Device Gesture to Speech Applications - Year 1	1-Jan-2021	31-Dec-2021		MCO Que / JR Celorico
46	RDR-MSD-2021-02 Porous Nanocarriers for Drug Delivery Applications - Year 2	1-Jan-2021	31-Dec-2021		JR Celorico / AK Collera
47	RDR-MSD-2021-03 Superparamagnetic Iron Oxide Nanoparticles (SPIONS) from Natural Mineral Deposits for Industrial and Biomedical Applications - Phase 2	1-Jan-2021	31-Dec-2021		PAN de Yro
48	RDR-MSD-2021-04 Development of an Antimicrobial Wound Dressing from Bacterial Cellulose-Nanoclay composite	1-Jan-2021	31-Dec-2021		CS Emolaga / MA Paglicawan
49	RDR-MSD-2021-05 Development of Bioinspired Composite Membrane Separators for Advanced Rechargeable Lithium-ion Batteries - Phase 1: Fabrication of Bioinspired Composite Membrane Separators from Abaca Fibers	1-Jan-2021	31-Dec-2021		MT Margarito
50	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-2021		BA Basilia

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51	RDA-MSD-2018-02 Environment, Health and Safety Research on the Risk Assessment of Nanomaterials	1-Jun-2018	31-Mar-2021	31-May-2021	BA Basilia
52	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		AM Monsada
PACKAGING TECHNOLOGY DIVISION					
53	RDR-PTD-2019-06 Development of Intelligent Packaging Colorimetric Sensor as Total Volatile Base Nitrogen (TVBN) Indicator	1-Jun-2019	31-Dec-2019	30-Jun-2021	RAG Garalde
54	RDR-PTD-2020-01 Development and Assessment of bacterial cellulose derived from fruit waste as a bio-based plastic film	1-Jan-2020	31-Dec-2020	30-Jun-2021	CT Saldaña
55	RDR-PTD-2020-02 Establishment of Shelf Life and Safety of Chilled Ready to Heat and Freshly Cooked Ready to Eat Foods Sold in Convenience Stores and Delivery Service	1-Jan-2020	31-Dec-2020	31-Mar-2021	C Bihis
56	RDR-PTD-2020-03 Shelf life extension of Fresh-cut pineapple application of alginate-based edible coating with lemongrass essential oil	16-Jan-2020	15-Jan-2021	17-Jul-2021	DJI Ortiz
57	RDR-PTD-2020-04 Development of anti-oxidant film based on chitosan containing spent ground coffee extract (Y1)	1-Jan-2020	30-Jun-2021	30-Sep-2021	MJP Paico
58	RDR-PTD-2020-05 Exposure assessment of Filipino Consumers to benzophenones migrated from paper and paperboard used as packaging for food and beverages (Y1)	1-Jun-2020	31-Oct-2021	30-Nov-2021	DJ Alcarde, Jr.
59	RDR-PTD-2021-01 Application of Eye-Tracking Technology for evaluating packaging design impact on consumers	1-Apr-2021	31-Dec-2021		KJR Dizon
60	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-Apr-2021	31-Dec-2021		ET Nolasco
61	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-Mar-2022		C Bihis
62	RDR-PTD-2021-04 Development of Three (3) New RTE Disaster Relief Foods for Vulnerable Groups (elderly and children)	1-Apr-2021	31-Mar-2023		GD Noceja
63	RDR-PTD-2021-05 Utilization of Mango and Calamansi Peel for the Production of Biofilms and its Application on Fresh Produce	1-Jul-2021	31-Dec-2022		MJP Paico
64	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		HE Armario
65	RDR-PTD-2021-07 Effect of Shock and Vibration on the Quality and Shelf Life of Mangosteen Sourced from Davao (Phase 2)	1-Jul-2021	Dec.31, 2022		ES Orendain

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66	RDA-PTD-2016-04 Upgrading and Enhancing the Capacity of the Packaging Technology Division in Packaging Research and Innovation	1-Dec-2016	30-Nov-2017	31-Jul-2021	DET Tanafranca
67	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-Jan-2023		FV Loberiano
68	RDA-PTD-2021-02 Pilot Testing of Packaging Technology Developed for Frozen Durian using Locally Produced Packaging Materials	16-Apr-2021	15-Feb-2023		DET Tanafranca
69	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		DET Tanafranca
PLANNING AND MANAGEMENT INFORMATION SYSTEMS DIVISION					
70	LFP-2020-PMISD-01 ITDI Information Technology Capability Enhancement and Sustainability	1-Jan-2020	31-Dec-2022		ZV Ang
71	RDA-PMISD-2021-01 Development of FIC Competency in Moving New Products from Concept to Market Launch	1-Jan-2021	30-Jun-2022		ZV Ang
TECHNOLOGICAL SERVICES DIVISION					
72	RDR-TSD-2020-01 Market Testing of FIC Technologies/Products through collaboration with existing adopters	1-Jan-2020	31-Dec-2020	30-Jun-2021	CL MOICO
STANDARDS AND TESTING DIVISION					
73	RDR-STD-2021-01 Development and Validation of HPLC Methods for Food Samples	1-Jan-2021	31-Dec-2021		MRV Parcon
74	RDR-STD-2021-02 Development of Soil Quality Control Material for As, Cd, Hg, and Pb	1-Jan-2021	31-Dec-2021		ARC Dablio
75	RDA-2019-STD-01 Upgrading of ITDI-Laboratory Animal Facilities in Support for Tuklas Lunas and Other DOST Programs, and Industry Needs	4-Nov-2019	30-Sep-2021		CM Ochona
76	RDA-2021-STD-02 Towards Leveling-up OneLab for Research, Development and Innovation	1-Feb-2021	31-Jan-2022		DOST IX AR Dablio (Coordinator)
77	RDA-2021-STD-03 Scale-up Production, Stability, and Application of Natural Colorants for Cosmetics	1-Jan-2021	Dec 31, 2021		RC Torres
NATIONAL METROLOGY DIVISION					
Enhancement of the Competence and Capabilities of the National Metrology Laboratory of the Philippines					
78	RDRD-2017-NMD-01 Project 1 : Chemical Metrology for Organic Contaminants in Food and Water	1-Jan-2017	31-Dec-2021		Dr. Benilda S. Ebarvia
79	RDRD-2017-NMD-02 Project 2 : Chemical Metrology for Inorganic Toxic Elements in Food and Water	1-Jan-2017	31-Dec-2021		Alleni B. Tongson
80	RDRD-2017-NMD-03 Project 3 : Biological Metrology for Microorganisms in Food	1-Jan-2017	31-Dec-2021		Marlon S. A. Antonio
81	RDRD-2017-NMD-04 Project 4: Strengthening the Physical Metrology Capabilities of the National Metrology Laboratory (NML)	1-Jan-2017	31-Dec-2021		Kiveen P. Suycano