

INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

Beneficiaries for 2022 implemented projects

No.	Project Title	Date Started	Completion Date		Beneficiaries
			Original	Revised	
CHEMICALS AND ENERGY DIVISION					
1	RDA-CED-2020-02 Design and Prototyping of Salt Harvesting Machine	1-Mar-2020	28-Feb-2021		1. Salt Producers
		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	1. Farmers 2. Pharmaceutical Industries 3. General Public
3	RDA-CED-2021-01 Deployment of Energy Monitoring Application and Network at DOST (DEMAND) as Demonstration Sites	8-Feb-2021	8-Aug-2022		1. DOST Agencies
4	RDA-CED-2021-02 Green Oils and Phytochemicals from Cashew, Pili, Tomato seeds and Rubber Seeds	16-May-2021	15-May-2022		1. Growers and processors of cashew
		16-May-2022	15-May-2023		
5	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	1. LGU Offices
6	RDA-CED-2021-04 Development of a PCR-based detection kit for Philippine Tomato Yellow Leaf Curl Virus (TYLCV) strains	01-Jul-2021	30-Jun-2022		1. Agriculture sector 2. Farmers producing tomatoes, beans, pepper, tobacco, cucumbers, and other important crops
7	RDA-CED-2021-05 Establishment of Fuel Cell R&D and Testing Facility (Y1)	1-Sep-2021	31-Aug-2022		1. Transportation sector 2. General public
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-2021	31-Dec-2021	28-Feb-2022	1. MMIC 2. MSMEs using MMIC Facilities
9	RDR-CED-2021-04 Sensory and Physicochemical Refinements in Some Personal Healthcare Products using Calamansi Essential Oils (former title 'Reformulation and Innovations in Some Personal Healthcare Products Using MMIC Equipment')	1-Aug-2021	31-Dec-2021		1. MSMEs 2. General public
		1-Jan-2022	31-Jul-2022		
10	RDR-CED-2022-01 Development of Copper-Based Nanomaterial as Additional Layer for Masks	1-Jan-2022	31-Dec-2022		1. PPE Industry 2. Healthcare workers 3. General public
11	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		1. Future clients of MMIC 2. Food processors 3. MSMEs 4. Universities and colleges
12	RDR-CED-2022-03 Development of Mini-Computer and Micro-Controller Based Programmable Logic Controller (PLC) Applications for a Selected MMIC Equipment and a CED Laboratory Equipment	1-Jan-2022	31-Dec-2022		1. Fuel cell R&D and Testing Facility 2. Transportation sector 3. General public
13	RDR-CED-2022-04 Screening of Biological Activities and Secondary Metabolites from Two (2) Endemic Species of Vanoverberghia	1-Aug-2022	31-Jul-2023		1. Pharmaceutical 2. General Public
ENVIRONMENT AND BIOTECHNOLOGY DIVISION					

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CHEMICALS AND ENERGY DIVISION					
13	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	31-Dec-2021	1. Local Government Units (LGU) 2. Department of Public Works and Highways (DPWH) 3. Department of Environment and Natural Resources (DENR) 4. Laguna Lake Development Authority (LLDA)
14	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	June 2022 Pending approval of PCHRD	1. Government 2. Researchers 3. Swine raisers 4. Epidemiologists
15	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 (approved)	1. General Public 2. Pharmaceutical companies 3. Hospitals 4. Government regulators
16	LFP-EBD-2021-02 Combination Therapy: Lytic Bacteriophages and Plant Extracts against Multidrug-Resistant Bacteria	1-Jul-2021	30-Jun-2022	30-Jun-2024 (approved)	
17	LFP-EBD-2021-03 Detection of food and water-borne bacterial pathogens using phage-based diagnostics	1-Jul-2021	30-Jun-2022	30-Jun-2024 (approved)	
18	LFP-EBD-2021-04 De novo synthesis of a non-Infective Flaviviridaepseudovirion: Initial development of a template for a safer conduct of Zika-related diagnostics research in the Philippines	1-Jul-2021	30-Jun-2022	30-Jun-2024 (approved)	
19	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-2022	30-Jun-2024 (approved)	
20	RDA-EBD-2022-01 Comparative Study Between Standard Methods and Philippine Made PM and CO Measuring Devices	1-Jan-2022	31-Dec-2022		1. Filipino researchers working on air quality sensors and device development 2. DENR and DTI 3. Emission testing centers and industries
21	RDA-EBD-2022-02 Deployment of Drinking Water Treatment System for Selected Indigenous People (IP) Communities in the Province of Tarlac	1-Feb-2022	31-Dec-2022		1. LGUs in Tarlac
22	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		1. LGUs in Manila 2. Public Markets in Manila
23	RDA-EBD-2022-04 Economic and Life Cycle Analysis of Single-use Plastic in the Philippines	1-Aug-2021	31-Jul-2022		1. Legislation and LGUs 2. Plastic industry 3. General public
23	RDA-EBD-2022-05 Pilot Testing of the UpEDS	1-Sep-2021	30-Aug-2022		1. Communities in Brgy. Sitio Bakal
24	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-2020		1. Pharmaceutical Industry 2. Student and Professional Researchers
		1-Jan-2021	31-Dec-2021		
		1-Jan-2022	31-Dec-2022		
25	RDR-EBD-2020-04 Design, Modeling, and Simulation of an Improved In-vessel Composting System	17-Feb-2020	31-Dec-2020		1. LGUs and cluster barangays 2. Establishments with MRF 3. Machine shops 4. Communities
		1-Jan-2021	31-Dec-2021		
		1-Jan-2022	31-Dec-2022	30-June-2022 (approved)	
26	RDR-EBD-2020-05	17-Feb-2020	31-Dec-2020		1. Small and large scale livestock

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	Development of Air Biofilters for the Control of Ammonia	1-Jan-2021	31-Dec-2021	31-March-2022 (approved) 30-June-2022 (approved)	and poultry houses in the Philippines 2. EIP Layer Farm
27	RDR-EBD-2020-07 Upgrading of the Emergency Water Disinfection System	1-Mar-2020	31-Dec-2021	31-Jan-2022	1. Inhabitants of areas prone to natural disasters; 2. Communities in rural areas with limited access to safe drinking water; 3. Evacuation centers; and 4. LGUs
28	RDR-EBD-2021-01 Development of an Algal-Bacterial (ALBA) Wastewater Treatment System	1-Jul-2021	31-Dec-2021	30-Jun-2022 (approved)	1. Local Swine Farms
			1-Jan-2022		
29	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 (approved)	1. Shrimp Farmers 2. Farmers of Talisay Plant 3. Women Cooperatives and Feed Producers
30	RDR-EBD-2022-01 Pilot-Scale Anaerobic Digestion of Fruit and Vegetable Waste for Biogas Production CENMACO, Inc.	1-Jan-2022	31-Dec-2022		1. Fruit or vegetable processing companies
31	RDR-EBD-2022-02 Biofilm inhibitory activity of Talisay (Terminalia catappa L.) leaf extract against shrimp pathogen Vibrio sp. and its potential as feed supplement Phase 2: Immunomodulatory effects of Talisaysupplemented feed on Vibrio-challenged whiteleg shrimp (Penaeus vannamei)	1-Jan-2022	31-Dec-2022		1. Shrimp farmers 2. Farmers of Talisay plant 3. Feed producers and women cooperatives
32	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) Phase 2. Chemical Profile and Antioxidant Activity of Kombucha (Year 2)	1-Jan-2022	31-Dec-2023		1. MSME who wish to make a start-up company on kombucha fermentation 2. Health and wellness industry 3. Student and professional researchers
33	RDR-EBD-2022-04 Detection of Enteroviruses (EnV) in Wastewater System using Polymerase Chain Reaction (PCR)	1-Feb-2022	31-Jan-2023		1. Wastewater treatment facilities 2. Student and professional researchers 3. Men and women of the general population
34	RDR-EBD-2022-05 Carbon Dioxide Removal from Stack Gases by Polymeric Hollow Fiber Membranes	1-Jan-2022	31-Dec-2023		1. ITDI laboratories 2. Other laboratories producing stack gases
35	RDR-EBD-2022-06 Operation of the DOST Sewage Treatment Plan (STP) and Development of Strategies for Water Reuse	1-Jan-2022 1-July-2022 (approved)	30-Jun-2023	31-Dec-2023 (approved)	1. DOST Community 2. Stakeholders of Laguna Lake, Pasig River, and Manila Bay
36	RDR-EBD-2022-07 Qualitative and Quantitative Assessment of Microplastics along the key sites of Laguna de Bay, Philippines	1-Jan-2022 1-July-2022 (approved)	31-Dec-2022	31-June-2023 (approved)	1. Researchers 2. LGU and government agencies
FOOD PROCESSING DIVISION					
37	RDA-FPD-2020-11 Plant Protein Products from Local Sources	1-Jul-2020	30-Jun-2021		1. Farmers
		1-Jul-2021	31-Dec-2022		2. MSMEs involved in food processing

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CHEMICALS AND ENERGY DIVISION					
38	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		1. Muslim Community 2. Food Manufacturers of Halal Food
		1-Jan-2022	31-Dec-2022		
39	RDA-FPD-2021-02 Establishment of Halal Assurance System For Selected Food Ingredients (Dried and Powdered Onions, Garlic, BlackPepper and Chilli)	1-Jan-2021	31-Dec-2021	22-Mar-2022	1. Muslim Community 2. Food Manufacturers/processors 3. Food Consumers 4. Food Exporter/Importer of Halal Food
40	RDA-FPD-2021-03 Development of Draft Standards and Recommended Code of Practice for Processing of Peanut Butter	1-Jan-2021	Dec 31 2021		1. Consumers 2. Peanut Butter Processors
		1-Jan-2022	Jun 1 2022		
41	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	26-Jan-2021	25-Jan-2022		1. Consumers 2. Cacao Farmers 3. Food Industry
		26-Jan-2022	25-Jan-2023		
42	RDA-FPD-2021-05 Technical Support for DOST Regional Food Innovation Centers (rFICs) Sub -Project 1: Equipment Operation and Upscaling Sub-Project 2: Design and Development of Food Product Prototypes and Recognition of Most Innovative Products	1-Mar-2021	31-Dec-2022		1. Consumers 2. MSMEs 3. Farmers
43	RDA-FPD-2021-06 Development of Competency on Establishment and Validation of Adequate Processes for Thermally Processed Food	1-Apr-2022	31-Mar-2023		1. Consumers 2. Food Processors
44	RDA-FPD-2021-08 Thermal Processing of Selected Materials Using Agitated-Type Retort	16-May-2021	31-Dec-2021	15-May-2023	1. Consumers 2. Food Processors
45	RDA-FPD-2021-09 Production of Dietary Fiber using Sugarcane Bagasse from Raw Sugar Manufacturing	1-Apr-2021	31-Mar-2022		1. Sugar Manufacturers 2. Farmers
		1-Apr-2022	31-Mar-2023		
46	RDR-FPD-2021-01 Modified Texturization Procedures of Restructured Fruits for Thermal Processing Applications	1-Jan-2021	31-Dec-2021	31-Mar-2022	1. Food Industry 2. Farmers
47	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	31-Mar-2022	1. MSMEs 2. Farm-based producers 3. Restaurateurs 4. Food Safety Specialists
48	RDR-FPD-2021-03 Development of Potential Natural Antimicrobial from Local Food Ingredients and Food Application	1-Jan-2021	31-Dec-2021	30-Jun-2022	Food industries manufacturing meat and meat-based products
49	RDR-FPD-2021-04 Improvement of Functional Components of Existing Horizontal Water Spray Retort	1-Apr-2021	31-Mar-2022		1. MSMEs using the pilot plant facilities 2. R&D and/or Thermal team of FPD
50	RDR-FPD-2021-05 Ultrasonic Assissted Extraction (UAE) and Microencapsulation of Virgin Coconut Oil (VCO): Study 1: Development of UAE and Microencapsulation Processes.	1-Mar-2021	31-Dec-2021		1. Coconut farmers 2. Coconut Industry

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CHEMICALS AND ENERGY DIVISION					
51	RDR-FPD-2022-01 Shelf-life Extension of Selected Regional Viand Products by Dehydration Technology	1-Feb-2022	31-Dec-2022		1. Food Manufacturing industry (local food importers and exporters) 2. Food consumers 3. Local manufacturers of dehydrated products 4. Farmers and food trade organizations/association
52	RDR-FPD-2022-02 Establishment of Used Palm Olein's Shelf life through Physicochemical Characterization Derived from Vacuum Frying of FIC-Developed Products: Okra, Carrots and Jackfruit	1-Feb-2022	31-Dec-2022		1. Companies manufacturing chips and healthy dried products
53	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		1. MSMEs using the pilot plant facilities 2. R&D and/or Thermal team of FPD
54	RDR-FPD-2022-04 Development and Assessment of Gender-Responsive Food Technologies Appropriate for Business Enterprises Development (Phase 3) GAD project	1-Jan-2022	1-Dec-2022		1. Farmers/cooperatives, SMEs, and areas affected bt calamities or any emergency situations as part of the Institute's Corporate social Responsibility
55	RDR-FPD-2022-05 Ultrasonic Assissted Extraction (UAE) and Microencapsulation of Virgin Coconut Oil (VCO): Study 2: Validation of UAE Process of VCO	1-Apr-2022	31-Dec-2022		1. Coconut farmers 2. Coconut Industry
MATERIALS SCIENCE DIVISION					
56	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		1. Automotive Industry 2. Manufacturing Industry 3. Researchers in the field of materials, design, fabrication and construction
		1-Jan-2020	31-Dec-2021		
		1-Jan-2021	31-Dec-2021	31-Dec-2022	
57	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	1. Semiconductor Industries 2. Chemical Industries 3. Allied Industries 4. Academe 5. Government Institutions
		1-Jan-2022	31-Dec-2022		

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CHEMICALS AND ENERGY DIVISION					
58	RDA-MSD-2022-01 Nanotexturing of Stainless Steel 316L by Electrochemical Etching for Biological Implants (CRADLE Project)	1-Jan-2022	31-Dec-2022		The target beneficiaries of this project are the following: 1. Filipino Households ● Filipino individuals of any gender and age, who suffer from arthritic pain from bum knee ● Filipino individuals of any gender and age, especially orthopedic patients, in-need of surgical implants 2. Academe and Research Community ● Future collaboration with universities and research institutions specializing surface nanotexturing, materials science and nanotechnology ● Promotion of nanotextured biomedical devices in Health-allied academe sectors for their teaching and research applications 3. Local Government Units ● Possible government-funded projects for our Public Health sector to provide assistance to Filipinos suffering from osteoarthritis, particularly those in need of surgical implants 4. Private and Public Institutions ● Hospitals and medical institutions utilizing medical devices (implants) for orthopedic surgery ● Medical companies whose business focus on healthcare and biomedical devices
59	RDR-MSD-2022-01 Porous Inorganic Nanocarriers In Drug Delivery System - Year 2	1-Jan-2022	31-Dec-2022		Mining Industry. Local pharmaceutical and manufacturing industries
60	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		a. Local industry sectors such as production/manufacturing industries
61	RDR-MSD-2022-03 Development of an Antimicrobial Wound Dressing from Bacterial Cellulose-Nanoclay composite - Phase 2	1-Jan-2022	31-Dec-2022		Beneficiaries are as follows: 1. Medical practitioners (Hospitals and Community Health Service Centers 2. Bacterial Cellulose Producers 3. Nanoclay Producers 4. Local government Units 5. Manufacturers for wound dressings 6. Researchers (i.e. academic, institutional) in the biomedical field
62	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		Beneficiaries are as follows: 1. Researcher (academe, other institution) 2. 3D printing industries (academe and hobbyists) 3. Prosthetics manufacturer (Exceed Prosthetics and Orthotics Philippines)

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CHEMICALS AND ENERGY DIVISION					
63	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		Particular sectors that will benefit from this research are the automotive industry and the academe.
NATIONAL METROLOGY DIVISION					
64	RDA-NMD-2022-01 Development and Provision of Proficiency Test Scheme in Shrimp Product for Local Microbiological Laboratories	1-Nov-2021	31-Oct-2023		Local microbiological laboratories involved in food testing
65	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-Sept-2023	30-Nov-2023	1. Bureau of Fisheries and Aquatic Resources – (particularly: BFAR National Fisheries Laboratory Division and BFAR Region VI - Regional Fisheries Laboratory) 2. DOST-ITDI Standards and Testing Division (STD) 3. DOST Regional Laboratories (particularly: DOST Region IX Regional Standards and Testing Laboratory) 4. National Food Authority-Food Development Center 5. Private laboratories 6. Other member laboratories of ONELAB
66	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		1. Industries 2. Manufacturing plants 3. Private, government and DOST laboratories
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-2022	31-Dec-2022		1. Industries 2. Manufacturing plants 3. Private, government and DOST laboratories
68	Enhancement of the Competence and Capabilities of the National Metrology Laboratory of the Philippines				
	RDRD-2017-NMD-01 Project 1 : Chemical Metrology for Organic Contaminants in Food and Water	1-Jan-2017	31-Dec-2017		1. Regional Metrology Laboratories 2. Testing Laboratories (use of Reference Materials)
		1-Jan-2018	31-Dec-2018		
		1-Jan-2019	31-Dec-2019		
		1-Jan-2020	31-Dec-2020		
		1-Jan-2021	31-Dec-2021	31-Dec-2022	
		1-Jan-2022	31-Dec-2022		
69	RDRD-2017-NMD-02 Project 2 : Chemical Metrology for Inorganic Toxic Elements in Food and Water	1-Jan-2017	31-Dec-2017		1. Regional Metrology Laboratories 2. Testing Laboratories (use of Reference Materials)
		1-Jan-2018	31-Dec-2018		
		1-Jan-2019	31-Dec-2019		
		1-Jan-2020	31-Dec-2020		
		1-Jan-2021	31-Dec-2021	31-Dec-2022	
		1-Jan-2022	31-Dec-2022		
70	RDRD-2017-NMD-03 Project 3 : Biological Metrology for Microorganisms in Food	1-Jan-2017	31-Dec-2017		1. Regional Metrology Laboratories 2. Testing Laboratories (use of Reference Materials)
		1-Jan-2018	31-Dec-2018		
		1-Jan-2019	31-Dec-2019		
		1-Jan-2019	31-Dec-2019		
		1-Jan-2020	31-Dec-2020		
		1-Jan-2021	31-Dec-2021	31-Dec-2022	
		1-Jan-2022	31-Dec-2022		
71	RDRD-2017-NMD-04 Project 4: Strengthening the Physical Metrology Capabilities of the National Metrology Laboratory (NML)	1-Jan-2017	31-Dec-2017		1. DOST Regional Metrology Laboratories and Private Calibration Laboratories 2. R&D Laboratories and Academia 3. Manufacturing Industries 4. Regulatory Bodies/Agencies
		1-Jan-2018	31-Dec-2018		
		1-Jan-2019	31-Dec-2019		
		1-Jan-2019	31-Dec-2019		
		1-Jan-2020	31-Dec-2020		

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		1-Jan-2021	31-Dec-2021	30-Jun-2022	5. The Consumers and the General Public
		1-Jan-2022	30-Jun-2022		
PACKAGING TECHNOLOGY DIVISION					
72	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-2022		1. Philippine Army Soldiers and/or trainees 2. Philippine National Police
		1-Feb-2022	31-Jan-2023		
73	RDA-PTD-2021-02 Pilot Testing of Packaging Technology Developed for Frozen Durian using Locally Produced Packaging Materials	16-Apr-2021	15-Apr-2022		1. Durian growers/processors
		16-Apr-2022	15-Feb-2023		
74	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-2022		1. Farmers/growers in Benguet, Nueva Viscaya, Tarlac and Davao 2. Consumers
75	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-2022	01-Jan-2022 to 31-Dec-2022	1. Transport delivery service/ logistics companies 2. General Public
			1-Jul-2022	30-Jun-2023	
76	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		1. Local food manufacturers 2. Consumers
		1-Jan-2022	31-Mar-2022		
77	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		1. Survivors and service providers of any calamity might it be natural, man made and pandemic
		1-Apr-2022	31-Mar-2023		
78	RDR-PTD-2021-06 Preliminary Study on Epoxidized Soybean Oil Migrating from Metal Closure into Bottled Spanish-Style Sardines	1-Jul-2021	30-Jun-2022		1. Manufacturers and distributors of metal closures 2. Manufacturers of bottled sardines and bottled bangus in oil 3. Consumers
		1-Jul-2022	28-Feb-2023		
79	RDR-PTD-2022-01 Development of Brand Name and Label Design for Unique Philippine Products (Phase 3)	1-Jan-2022	31-Dec-2022		1. Existing producers or manufacturers 2. Prospective Brand Owners
80	RDR-PTD-2022-02 A Preliminary Study on the Exposure assessment of Filipino Consumers to phthalates migrated from paper-based and plastic-based materials used as packaging for food and Beverages	1-Jan-2022	30-Jun-2023		1. General Public 2. Food and packaging manufacturers, MSMEs and dealers
81	RDR-PTD-2022-03 Development of Generic Designs of Internal Packaging Made from Corrugated Boards for Non-Food Product Protection	2-Feb-2022	31-Oct-2022		Manufacturing companies using plastic-based cushions
82	RDR-PTD-2022-04 Development of intelligent packaging colorimetric sensor as total volatile basic nitorgen (TVBN) indicator (Phase 2)	2-Feb-2022	31-Jan-2023		Manufacturers and distributors of flesh foods for both local and export market
83	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		1. Packaging Testing Laboratory 2. General public 3. FDA and Businesses under Food and Beverage Industry

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			Original	Revised	
CHEMICALS AND ENERGY DIVISION					
84	RDR-PTD-2022-06 Fabrication and Characterization of Fiber – Based Cushion Pad and Partition Board Derived from Pineapple Waste for Transport Packaging of Fresh Produce	2-Feb-2022	31-Aug-2023		1. Pineapple farmers 2. Packaging manufacturers 3. General public
85	RDR-PTD-2022-07 Utilization of indigenous materials as green active packaging in prolonging the overall freshness of low-land agricultural crops (ampalaya and french beans)	1-Apr-2022	31-Mar-2023		1. Farmer-entrepreneurs of ampalaya and French beans 2. Wholesalers and retailers of ampalaya and French beans
86	RDR-PTD-2022-08 Effect of Shock and Vibration on the Quality and Shelf Life of Mangosteen Sourced from Davao (Phase 2)	1-Jul-2022	31-Dec-2022		1. Mangosteen farmers/growers in the Philippines 2. Wholesalers/retailers/exporters of fresh fruits
87	RDR-PTD-2022-09 Pilot Testing of Packaging Technology for Pork Lechon	1-Jun-2022	31-May-2023		1. Lechon processors of CDO, Leyte and other provinces 2. Consumers
PLANNING AND MANAGEMENT INFORMATION SYSTEMS DIVISION					
88	RDA-PMISD-2021-01 Development of FIC Competency in Moving New Products from Concept to Market Launch	1-Jan-2021	31-Dec-2021		1. DOST Regional Offices 2. MSMEs
		1-Jan-2022	30-Jun-2022		
89	LFP-PMISD-2020-01 ITDI Information Technology Capability Enhancement and Sustainability	1-Jan-2020	31-Dec-2020		1. DOST-ITDI Employees 2. DOST-ITDI Clients
		1-Jan-2021	31-Dec-2021		
		1-Jan-2022	31-Dec-2022		
STANDARDS AND TESTING DIVISION					
90	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-2020		1. Industries, academe and other stakeholders in need of biological testing 2. Department of Science and Technology Programs
		4-Nov-2020	3-Nov-2021	3-Nov-2022 (approved)	
91	RDA-STD-2021-02 Towards Leveling-up OneLab for Research, Development and Innovation	1-Feb-2021	31-Jan-2022	30-Apr-2022 (approved)	1. Micro, small and medium enterprises (MSMEs) 2. State Universities and Colleges (SUCs) 3. Local Government Units (LGUs) 4. Construction Industry 5. Local Cassava Farmers 6. Food Processing Innovation Centers 7. Academe
92	RDA-STD-2021-03 Scale-up Production, Stability, and Application of Natural Colorants for Cosmetics	1-Jan-2021	31-Dec-2021		1. Local Producers of Beet Root, Dragon Fruit and Blue Ternate/Pea 2. Cosmetics/Personal Care Industry
		1-Jan-2022	31-Dec-2022		
93	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		1. Muslim and non-Muslim halal products and services consumers 2. Local producers of halal cosmetic products 3. Local farmers of raw materials, e. g., base oil, plants and florals, etc. 4. Local wellness spa services establishments, particularly in the identified cities: Metro Manila, Palawan, Cebu City, Davao City, Zamboanga City and Cebu City
94	RDR-STD-2021-01 Development and Validation of HPLC Methods for Food Samples	1-Jan-2021	31-Dec-2021	31-Mar-2022	1. Food Manufacturing Companies 2. Research and Development Sectors - the R&D Sectors from different government (DOST, DOH, FDA) and private institutions 3. Academe
			1-Jan-2022		
95	RDR-STD-2021-02 Development of Soil Quality Control Material for As, Cd, Hg, and Pb	1-Jan-2021	31-Dec-2021	31-Mar-2022 31-Dec-2022	1. Inorganic Chemistry Section, Chemistry Laboratory, Standards and Testing Division, DOST-ITDI

INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

Beneficiaries for 2022 implemented projects

No.	Project Title	Date Started	Completion Date		Beneficiaries
			Original	Revised	
CHEMICALS AND ENERGY DIVISION					
	material for As, Cd, Hg, and Pb		1-Jan-2022	31-Dec-2022	and Testing Division, DOST-ITDI 2. Private laboratories and DOST Regional Testing Laboratories
96	RDR-STD-2022-01 Program: Enhancement of ITDI-STD Fuel Testing Services Phase 1: Enhancement of Fuel Testing Capability on Self-heating, Proximate and Ultimate Analyses in Coconut Shell-based Charcoal Briquettes and Activated Carbon	1-Jan-2022	31-Dec-2022		1. Charcoal industry 2. Activated Carbon industry 3. Philippine Coconut Authority 4. DOST Regional Standards and Testing Laboratories
97	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		Inorganic Chemistry Section, Chemistry Laboratory, Standards and Testing Division, DOST-ITDI
98	RDR-STD-2022-03 Method Verification for the Preservative Efficacy Test of Halal Lipstick and Lip Balm Developed by ITDI	1-Jan-2022	31-Dec-2022		1. CED and STD: testing will complement research and development activities on halal and other cosmetics of ITDI 2. Cosmetics industry of the Philippines: testing availability to manufacturers and traders to ensure product safety and competitiveness 3. Academe: testing will cater to academic research and development
99	RDR-STD-2022-04 Method Validation and Production of Internal Quality Control Material for the Determination of Toxic Elements in Fish and Fish Products	1-Jan-2022	31-Mar-2023		Inorganic Chemistry Section, Chemistry Laboratory, Standards and Testing Division, DOST-ITDI
9					
100	RDA-2021-TSD-01 Technical Support to DOST Regional Food Innovation Centers	1-Mar-2021	28-Feb-2022		1. Regional FICs
		1-Mar-2022	28-Feb-2023		
101	RDA-2021-TSD-02 Development of Mobile Modular Food Processing Facility (MMFPF)	1-May-2021	30-Apr-2023		1. Food processors 2. Entrepreneurs