

**NUMBER OF R&D PROJECTS IMPLEMENTED
2017**

PROJCODE	PROJECT TITLE	STATUS	DATE START	DATE END	PROJECT LEADER
MSD	8				
RDA-MSD-2016-03	Development and Deployment of Low Cost Modular Type Rainwater Collection	Completed	1-Dec-15	14-Jun-17	J. Celorico
RDA-MSD-2017-02	Southeast Asian Atmospheric Corrosion Exposure Study (SEA-ACES) of Steels, Electronics Equipment and Components in Philippine Marine Environment (Year 3) - NIMS Japan	Completed	1-Jan-17	31-Dec-17	A. Monsada
RDA-MSD-2017-04	Development, Characterization and Performance Evaluation of Polymeric Separation Membrane for Industrial Applications using Local Materials (Phase 1)	On-going	1-Jan-17	31-Mar-18	B. Basilia
RDRA-MSD-2017-01	Sustainability of Advanced Device and Materials Testing Laboratory (ADMATEL) for the Semiconductor, Electronics and Other Industries Phase 6 (Operations of ADMATEL)	Completed	1-Jan-17	31-Dec-17	A. Monsada
RDR-MSD-2017-04	Development of Fiber Composites Study 1: Vacuum-Assisted Resin Transfer Molding of Abaca Fiber-Reinforced Composite for Complex Structure	Completed	1-Feb-17	31-Dec-17	M. Paglicawan
RDR-MSD-2017-03	Industrial and Medical Applications of Natural Cellulosic Materials Study 1: Development of Carbon Quantum Dots from natural cellulosic materials	Completed	1-Feb-17	31-Dec-17	P. de Yro

RDR-MSD-2017-01	Surface Modification of Nanozeolite for Water and Wastewater Applications	Completed	1-Feb-17	31-Dec-17	J. Celorico
RDR-MSD-2017-08	Modification of Locally Produced Nanosilica for Industrial Hydrophobic Nanocoatings	Completed	1-Feb-17	31-Dec-17	J. Celorico
MSD,CED		3			
RDR-CED-2017-02	Nanoencapsulation of herbal drugs in hydrogels and matured coconut water as health supplement for musculoskeletal system: Development and Scale-up Production	On-going	1-Feb-17	30-Jul-18	E. Manongsong
RDR-2017-07	Field testing of Nanozeolite based CO2 capture system and purification system for fuel grade ethanol in the industry				
RDR-CED-2017-07A	Study 1: Performance Testing of Scale-up Purification System for Ethanol Dehydration and Regeneration of Nano Zeolite Molecular Sieve	Completed	1-Jan-17	31-Dec-17	C. de Vera
RDR-CED-2017-07B	Study 2: Field Testing of Nanozeolite Sorbent in Diesel-Fired Boiler System	Completed	1-Jan-17	31-Dec-17	A. Bawagan
CED		6			
RDA-2017-01	I-SALT: Improving Productivity and Efficiency of Local Salt Producers Towards a Self-Reliant Philippines in 2020				
RDA-CED-2017-01A	Project 1 : Design, Prototyping of Salt Processing Equipment (Washer, Dryer, Iodizer, Crystallizing Pan, Furnace, Concentrator (ion-exchange membrane)	On-going	1-Jul-17	30-Jun-19	A. Briones
RDA-CED-2017-01B	Project 2: Development of Gourmet Salt Products and Micro-Sized Salt in Laboratory Scales	On-going	1-Jul-17	30-Jun-19	A. Briones

RDR-2016-03 Field-Testing of Nanozeolite in Molecular Sieve/Membrane Technologies

	Study 1: Performance Testing of the Purification System for Ethanol in Dehydration and Regeneration of Zeolite Molecular Sieve					
RDR-CED-2016-03A		Completed	16-Mar-16	31-Mar-17	C. De Vera	
RDR-CED-2016-03B	Study 2: Field Testing of Nano Zeolite Membrane for CO ₂ Capture in Boiler System	Completed	16-Mar-16	31-Mar-17	A. Bawagan	

RDR-2016-05 Scale-up Production and Application Studies of Nano Precipitated Calcium Carbonate

RDR-CED-2016-05C	Study 3: Scale-up Production of NPCC for Pharmaceutical Grade Calcium Carbonate	Completed	1-Jan-16	31-Mar-17	R. Torres	
RDR-CED-2017-06	Development of Supercapacitor with Organic Electrolytes using Graphene	On-going	1-Feb-17	31-Mar-18	J. Herrera	

CED, FPD 2

RDR-CED-2017-05	Production of Resistant Starch from Cassava for Dietary Applications	Completed	1-Jan-17	31-Dec-17	C. Bulan/ M. Carandang	
	Modular Multi-Industry Innovation Center	On-going	1-Jan-17	31-Dec-18	A. Briones	

**EBD 10
RDR-EBD-2016-02 Application Studies of Nanozeolite in Water/Wastewater Treatment**

RDR-EBD-2016-02B	Study 2: Competitive Sorption and Removal of Heavy Metals from Aqueous Solution using Locally Mined Zeolite	Completed	1-Apr-16	30-Apr-17	C. Gacho	
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RDR-EBD-2016-05 Scale-up Production and Application Studies of Nano Precipitated Calcium Carbonate

RDR-EBD-2016-05F	Study 6: Removal of Heavy Metal Ions from Wastewater using Bio-Sorbent Chitosan-Calcium Carbonate Composite	Completed	1-Apr-16	31-Mar-17	E. Ongo	
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RDR-EBD-2015-03	Treatment of Modified Starch Processing and Post-consumer Polymeric Wastes					
	Study 4: Pilot-Scale Aerobic treatment of Wastewater					
RDR-EBD-2016-09D	from Modified Starch Processing using Novel Locally-Isolated Bacterial Strains	Completed	1-Apr-16	31-Mar-17	F. Coronado	
RDR-EBD-2015-10	Development of a Mobile Flood Water Treatment System for Emergency Drinking Water					
RDR-EBD-2017-10A	Study 1: Process and Equipment Development	On-going	31-Mar-17	28-Feb-18	E. Ongo	
RDR-EBD-2017-10B	Study 2: Power Supply Development	On-going	31-Mar-17	28-Feb-18	D. vergara	
RDR-EBD-2014-10	Development of a Compact Wastewater Treatment System Enhanced with Bio-Augmentation Technology for Quick Service Restaurants (QSRs)	Completed	1-Feb-14	31-Dec-17	R. Delos Reyes	
RDA-EBD-2016-01	Microbial based Technologies for the Rehabilitation of Heavy Metal Contaminated Wastewater from Mining site	Completed	01-Apr-16	31-Mar-17	C. Gacho	
RDA-EBD-2017-01	Application of Anaerobic Digestion for Household Biodegradable Waste in Kawit, Cavite (Alveo-PBE project)	On-going	01-May-17	31-May-18	D. Herrera	
RDA-EBD-2017-02	Household and Community-based Filters for Metals in Waters	On-going	01-Jul-17	30-Jun-18	R. Esguera	

RDA-EBD-2017-03	Aerobic Treatment of Anaerobically Pre-digested Swine Wastewater using Activated Sludge and Subsequent Polishing using Biological Filters, Trickling Filter System	On-going	16-Mar-17	15-Mar-18	R. Retamar
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PTD

13

RDA-PTD-2013-05	Enhancing the Competitiveness of Fresh Fruits and Semi-Processed Agricultural Products through the Application of Appropriate & Sustainable Packaging (JICA project)	Completed	31-Mar-13	31-Mar-17	D. Tañafranca
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RDA-PTD-2016-01	Package Development of Bakery Product and Field Testing Study of RTE Smoked Fish Rice Meal and Sweet Potato as Disaster/Relief Foods Phase 1	Completed	01-Jan-16	31-Jan-17	D. Tanafranca
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RDA-PTD-2016-04	Upgrading and Enhancing the Capacity of the Packaging Technology Division in Packaging Research and Innovation (Year 1)	On-going	01-Dec-16	30-Oct-19	D. Tanafranca
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	Asean Packaging Conference	Completed	01-Feb-17	15-Dec-17	D. Tanafranca
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RDR-PTD-2015-3	Application of Retort Packaging Technology in the Development of Disaster Mitigation/ Relief Foods Phase 2 (root crop based products)	Completed	01-Jul-15	31-Jan-17	G. Noceja
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RDR-PTD-2015-3	Application of Retort Packaging Technology in the Development of Disaster Mitigation/ Relief Foods Phase 2 (root crop based products)	Completed	01-Jul-15	31-Jan-17	G. Noceja
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RDR-PTD-2015-4	Shelf life Extension of Bakery Products as Relief/Mitigation and Combat Foods Through the Application of Appropriate Packaging Technology	Completed	01-Jul-15	31-Jan-17	C. Bihis
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RDR-2015-01 Characterization of Zeolite Film and Application for Packaging of Fresh (delayed ripening) and Processed (shelf life extension) Mango and Banana

Study 1: Application of
 RDR-PTD-2015-01 active packaging technology to delay the ripening of fresh mango & banana Completed 01-Aug-15 31-Dec-17 D. Tanafranca/ A. Basbasan

RDR-PTD-2016-02 Evaluation of Acetaldehyde Content in Different Brands of PET-bottled Drinking Water Completed 01-Mar-16 31-Mar-17 J. Diaz

RDR-PTD-2016-03 Development of generic packaging and technology for selected food products of FICs and MSMEs in the regions Completed 01-Apr-16 31-Dec-17 D. Tanafranca

RDR-PTD-2017-09 Evaluation of Zeolite Coated Plastic Films as Food Packaging Completed 01-Apr-17 31-Dec-17 D. Tanafranca

RDR-PTD-2017-12 Quality and Safety Monitoring of Chilled and Frozen Foods Using Intelligent Packaging with Time Temperature Indicators: A Preliminary Study On-going 01-Aug-17 28-Feb-18 D. Tanafranca

RDR-PTD-2017-13 Comparative Analysis of Cushion Performance of Handmade Pulp Moulds vs Common Cushioning Materials in the Philippines Completed 01-Feb-17 31-Dec-17 F. Victoria

FPD, MSD, PTD, TSD, PMISD

RDR-FPD-2017-11 Deployment and Impact Assessment of Developed Disaster Relief Projects (GAD project) On-going 01-Mar-17 31-Dec-17 M. Villasenor

FPD 5

RDR-MSD-2016-05B Natural Food Colors from Local Source as Food Additive On-going 15-Mar-17 14-Mar-18 M. Villasenor

RDR-2016-04 Development of Beverages for Disaster Situation

RDR-FPD-2016-04A	Study 1: Complete Survival on Meal Replacement Beverages (MRB) as Emergency Food	Completed	01-Feb-15	30-Jan-17	L. Montevirgen
RDR-FPD-2016-04B	Study 2: Development of Isotonic Drinks for Disaster Situations	Completed	01-Apr-16	31-Mar-17	M. Evaristo
RDR-FPD-2017-14	Effect of using Modified Cassava Starch on the Rheological Properties of Selected Food Systems	Completed	01-Feb-17	31-Dec-17	M. Falco
RDR-FPD-2017-15	Risk Profiling of Contaminants in Bottled Tuyo	Completed	01-Feb-17	31-Dec-17	L. Montevirgen

RDR-FPD-2017-16	Utilization of Rice milling by-products for the production of oil, syrup (as food and industrial sweetener) and high-protein powder	On-going	01-Mar-17	31-Mar-18	N. Ambagan
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EBD, FPD

3

RDR-2017-10 Isolation, Purification and Identification (Phenotyping and Genotyping) of Microbial Succession of Philippine Traditional Fermented Foods

RDR-EBD-2017-10A	Study 1: Phenotypic and biochemical characterization of microbial isolated from fermented products	On-going	01-Mar-17	28-Feb-18	U. Bigol
RDR-EBD-2017-10B	Study 2: Molecular characterization of microbial isolated from fermented products	On-going	01-Mar-17	28-Feb-18	E. Panerio

RDR-EBD-2017-10C	Study 3: Data-mining of previous Biotechnology R&D Outputs related to Local Food Processing	On-going	01-Mar-17	30-Jul-18	F. Coronado
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PMISD, TSD and R&D **1**

RDR-PMISD-2017-18	Impact Assessment of ITDI-developed technologies, technology transfer activities and practices	On-going	2017	2018	L. Ablana/ N. Florendo
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STD **3**

RDA-STD-2014-01	Integration of Testing Services for Rubber and Rubber-based Products	Completed	15-Jul-14	14-Jul-17	A. Senica
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RDA-STD-2017-01	OneLab Capability Assurance System for Metal Content Assessment in Agricultural Produce, Water and Environmental Samples	On-going	01-Mar-17	28-Feb-19	R. Fuertes
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RDA-STD-2017-02	Enhancing OneLab for Global Competitiveness	On-going	1-Jan-17	31-Dec-19	A. Briones
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RDA-STD-2017-03	Development of Natural Colorants for Cosmetics	On-going	15-Mar-17	14-Mar-19	R. Torres
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TSD **2**

RDA-TSD-2013-01	Roll-out of DOST- Developed Food Processing Equipment to the Regions	Completed	1-Oct-13	31-Dec-17	N. Florendo
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RDA-TSD-2017-01	Pilot Implementation of ITDIs Pre-Commercialization Tools/Strategies for Effective Transfer and Commercialization of Generated Technologies and Intellectual Properties	On-going	15-Jun-17	14-Jun-18	N. Florendo
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RDRD-2017-1 Enhancement of the Competence and Capabilities of the National Metrology Laboratory (NML) of the Philippines

RDRD-2017-NMD-1	Project 1: Chemical Metrology for Organic Contaminants in Food and Water	On-going	1-Jan-17	31-Dec-19	B. Ebarvia
RDRD-2017-NMD-2	Project 2: Chemical Metrology for Inorganic Toxic Elements in Food and Water	On-going	1-Jan-17	31-Dec-19	B. Ebarvia
RDRD-2017-NMD-3	Project 3: Biological Metrology for Microorganisms in Food	On-going	1-Jan-17	31-Dec-19	M. Aguinaldo
RDRD-2017-NMD-4	Project 4: Strengthening the Physical Metrology Capabilities of the National Metrology Laboratory (NML)	On-going	1-Jan-17	31-Dec-19	K. Suycano