

LIST OF PROJECTS COMPLETED & DISSEMINATED 2017

DIVISION	PROJCODE	PROJECT TITLE	DATE START	DATE END	STATUS	DISSEMINATED
PTD	RDR-PTD-2015- 3	Application of Retort Packaging Technology in the Development of Disaster Mitigation/ Relief Foods Phase 2 (root crop based products)	1-Jul-15	31-Jan-17	Completed	Presented to DSWD, LGU and Philippine Army last July 2016.
CED	RDR-CED-2016-03A	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	16-Mar-16	31-Mar-17	Completed	Exhibited during the Power Trends event at SMX MOA last September 2016
EBD	RDR-EBD-2016-05F	Scale-up Production and Application of Studies of Nano Precipitated Calcium Carbonate Study 6: Removal of Heavy Metal Ions from Wastewater using Bio-Sorbent Chitosan-Calcium Carbonate Composite	4/1/2016	3/31/2017	Completed	Presented during the APEC-VC Workshop, 19-20 October 2016, Seoul, Korea
PTD	RDR-PTD-2015- 4	Shelf life Extension of Bakery Products as Relief/Mitigation and Combat Foods Through the Application of Appropriate Packaging Technology	7/1/2015	1/31/2017	Completed	Presented to DSWD, LGU and Philippine Army last July 2016.
EBD	RDR-EBD-2016-02B	Application Studies of Nanozeolite in Water/Wastewater Treatment Study 2: Competitive Sorption and Removal of Heavy Metals from Aqueous Solution using Locally Mined Zeolite	1-Apr-16	30-Apr-17	Completed	Presented during the APEC-VC Workshop, 19-20 October 2016 Seoul Korea; ISBN 978-621-424-012-8 December 22, 2017

DIVISION	PROJCODE	PROJECT TITLE	DATE START	DATE END	STATUS	DISSEMINATED
PTD	RDR-PTD-2016-02	Evaluation of Acetaldehyde Content in Different Brands of PET-bottled Drinking Water	1-Mar-16	31-Mar-17	Completed	ISBN 978-621-424-014-2 December 22, 2017
EBD	RDR-EBD-2016-09D	Treatment of Modified Starch Processing and Post-consumer Polymeric Wastes Study 4: Pilot-Scale Aerobic treatment of Wastewater from Modified Starch Processing using Novel Locally-Isolated Bacterial Strains	1-Apr-16	31-Mar-17	Completed	ISBN 978-621-424-017-3 December 22, 2017
PTD	RDR-PTD-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 active packaging technology to delay the ripening of fresh mango & banana	1-Aug-15	31-Dec-17	Completed	Included in the presentation materials for the following seminars: Usapang Exports – Nov 21, Cebu City; Nov 23, Davao City, o Updates and Trends on Packaging & Labelling – Nov 23, Zamboanga City, o Packaging Trends & Innovation – June 9, PTTC Discussed with mango & banana growers results of experiments during field testing
FPD	RDR-FPD-2016-04B	Development of Beverages for Disaster Situation Study 1: Complete Survival on Meal Replacement Beverages (MRB) as Emergency Food Study 2: Development of Isotonic Drinks for Disaster Situations	1-Apr-16	31-Mar-17	Completed	ISBN 978-621-424-019-7 December 22, 2017
PTD	RDR-PTD-2016-03	Development of generic packaging and technology for selected food products of FICs and MSMEs in the regions	16-Apr-16	31-Dec-17	Completed	Generic packaging materials were delivered to FIC in Regions 2, 6, 7, 8, 9 & NCR

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CED	RDR-CED-2017-07B	Field testing of Nanozeolite based CO2 capture system and purification system for fuel grade ethanol in the industry Study 2: Field Testing of Nanozeolite Sorbent in Diesel-Fired Boiler System	1/1/2017	31-Dec-17	Completed	Disseminated during Power trends Exhibit at SMX MOA (Sept. 27-29, 2017)
CED	RDR-CED-2016-03B	Field-Testing of Nanozeolite in Molecular Sieve/Membrane Technologies Study 2: Field Testing of Nano Zeolite Membrane for CO2 Capture in Boiler System	3/16/2016	31-Mar-17	Completed	March 21-25, 2017 UP Engineering Congress, UP Diliman Quezon City; Sept. 27-29, 2017 Power Trends 2017 Exhibit at SMX MOA; Nov. 24-26, 2017 Chem Expo Phils Exhibit, World Trade Center Pasay City
CED	RDR-CED-2017-05	Production of Resistant Starch from Cassava for Dietary Applications	1/1/2017	31-Dec-17	Completed	Exhibited last Nov. 24-26, 2017 at Chem Expo Philippines at the World Trade Center, Pasay City
MSD	RDR-MSD-2017-01	Surface Modification of Nanozeolite for Water and Wastewater Applications	2/1/2017	31-Dec-17	Completed	Meeting with Philippine Army, last October 2017
MSD	RDR-MSD-2017-03	Industrial and Medical Applications of Natural Cellulosic Materials Study 1: Development of Carbon Quantum Dots from natural cellulosic materials	2/1/2017	31-Dec-17	Completed	During the Sept. 7, 2017 Educational Field trip of the School of Chemistry and Chemical Engineering and Chemical Engineering Students of Eulogio "Amang" Rodriguez Institute of Science and Technology (EARIST) July 31, 2017

**LIST OF PROJECTS COMPLETED WITHIN THE TIMEFRAME IN
ACCORDANCE WITH ORIGINAL PROJECT APPROVAL
2017**

DIVISION	PROJCODE	PROJECT TITLE	DATE START	DATE END	STATUS	PROJECT LEADER
CED	RDR-CED-2016-03A	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	16-Mar-16	31-Mar-17	Completed	C. De Vera
EBD	RDR-EBD-2015-03D	Treatment of Modified Starch Processing and Post-consumer Polymeric Wastes Study 4: Pilot-Scale Aerobic treatment of Wastewater from Modified Starch Processing using Novel Locally-Isolated Bacterial Strains	4/1/2016	3/31/2017	Completed	F. Coronado
CED	RDR-CED-2016-05C	Scale-up Production and Application of Studies of Nano Precipitated Calcium Carbonate Study 3: Scale-up Production of NPCC for Pharmaceutical Grade Calcium Carbonate	1/1/2016	3/31/2017	Completed	R. Torres
PTD	RDR-PTD-2015- 3	Application of Retort Packaging Technology in the Development of Disaster Mitigation/ Relief Foods Phase 2 (root crop based products)	7/1/2015	1/31/2017	Completed	G. Noceja
EBD	RDR-EBD-2016-05F	Scale-up Production and Application of Studies of Nano Precipitated Calcium Carbonate Study 6: Removal of Heavy Metal Ions from Wastewater using Bio-Sorbent Chitosan-Calcium Carbonate Composite	4/1/2016	3/31/2017	Completed	E. Ongo
FPD	RDR-FPD-2016-04B	Development of Beverages for Disaster Situation Study 2: Development of Isotonic Drinks for Disaster Situations	01-Abr-16	31-Mar-17	Completed	M. Evaristo

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PTD	RDR-PTD-2015- 4	Shelf life Extension of Bakery Products as Relief/Mitigation and Combat Foods Through the Application of Appropriate Packaging Technology	7/1/2015	1/31/2017	Completed	C. Bihis
FPD	RDR-FPD-2016-04A	Development of Beverages for Disaster Situation Study 1: Complete Survival or Meal Replacement Beverage (MRB) as Emergency Food	2/1/2015	1/30/2017	Completed	L. Solidum
MSD	RDR-MSD-2017-01	Surface Modification of Nanozeolite for Water and Wastewater Applications	2/1/2017	12/31/2017	Completed	J. Celorico
MSD	RDR-MSD-2017-03	Industrial and Medical Applications of Natural Cellulosic Materials Study 1: Development of Carbon Quantum Dots from natural cellulosic materials	2/1/2017	12/31/2017	Completed	P. De Yro
MSD	RDR-MSD-2017-04	Development of Fiber Composites Study 1: Vacuum-Assisted Resin Transfer Molding of Abaca Fiber-Reinforced Composite for Complex Structure	2/1/2017	12/31/2017	Completed	M. Paglicawan
CED	RDR-CED-2017-05	Production of Resistant Starch from Cassava for Dietary Applications	1/1/2017	12/31/2017	Completed	C. Bulan/ M. Carandang
CED	RDR-CED-2017-07A	Field testing of Nanozeolite based CO2 capture system and purification system for fuel grade ethanol in the industry Study 1: Performance Testing of Scale-up Purification System for Ethanol Dehydration and Regeneration of Nano Zeolite Molecular Sieve	1/1/2017	12/31/2017	Completed	C. De Vera
MSD	RDR-MSD-2017-08	Modification of Locally Produced Nanosilica for Industrial Hydrophobic Nanocoatings	2/1/2017	12/31/2017	Completed	J. Celorico

DIVISION	PROJCODE	PROJECT TITLE	DATE START	DATE END	STATUS	PROJECT LEADER
PTD	RDR-PTD-2017-09	Evaluation of Zeolite Coated Plastic Films as Food Packaging	4/1/2017	12/31/2017	Completed	D. Tañafranca
PTD	RDR-PTD-2017-13	Comparative Analysis of Cushion Performance of Handmade Pulp Moulds vs Common Cushioning Materials in the Philippines	2/1/2017	12/31/2017	Completed	F. Victoria
FPD	RDR-FPD-2017-14	Effect of using Modified Cassava Starch on the Rheological Properties of Selected Food Systems	2/1/2017	12/31/2017	Completed	M. Falco
FPD	RDR-FPD-2017-15	Risk Profiling of Contaminants in Bottled Tuyo	2/1/2017	12/31/2017	Completed	L. Montevirgen
CED	RDR-CED-2016-03B	Field-Testing of Nanozeolite in Molecular Sieve/Membrane Technologies Study 2: Field Testing of Nano Zeolite Membrane for CO2 Capture in Boiler System	3/16/2016	3/31/2017	Completed	A. Bawagan
CED	RDR-CED-2017-07B	Field testing of Nanozeolite based CO2 capture system and purification system for fuel grade ethanol in the industry Study 2: Field Testing of Nanozeolite Sorbent in Diesel-Fired Boiler System	1/1/2017	12/31/2017	Completed	A. Bawagan

**PROJECT COMPLETED IN THE LAST 5 YEARS PUBLISHED
IN RECOGNIZED MEDIA OR ADOPTED BY INDUSTRY
2017**

PROJECT TITLE	TECHNICAL PAPERS PUBLISHED	ADOPTOR (S)
Bench Scale Production of Locally Produced Nanozeolite Pelletes and Powder	ISBN 978-621-424-001-2 (March 9, 2017)	
Application Studies of Nanozeolite in Water/Wastewater Treatment Study 1: Surface Modification of Locally Produced Nanozeolite for Water Purification	ISBN 978-621-424-005-0 (March 9, 2017)	
Production and Evaluation of Nanozeolite Films for Food and Industrial Applications Study 1: Production of Nanozeolite Films for Advanced Industrial Applications	ISBN 978-621-424-003-6 (March 9, 2017)	
Scale-up Production and Application of Studies of Nano Precipitated Calcium Carbonate Study 2: Application of Nano-Precipitated Calcium Carbonate for Flexible and Rigid Plastics Production	ISBN 978-621-424-007-4 (April 21, 2017)	