

Department : DEPARTMENT OF SCIENCE AND TECHNOLOGY
 Agency : INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE
 Operating Unit :
 Organization Code (UACS) : 19005000000

X	Current Year Appropriations
	Supplemental Appropriations
	Continuing Appropriations
	Off-Budget Account

Particulars	UACS CODE	Physical Targets					Physical Accomplishments					Variance as of 4th Quarter	Remarks
		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total		
1	2	3	4	5	6	7=(3+4+5+6)	8	9	10	11	12=(8+9+10+11)	13	14
1. Industrial Technology R&D Program Outcome Indicators													
1. Number of partnerships with public and private stakeholders and international organizations		3	3	6	3	15	7	1	8	1	17	+2	Q4: One (1) Partnership forged: 1. DOST Region III Q3: Eight (8) partnerships forged 1. Corban Community Farms, Inc. 2. Villa Socorro 3. Imus Taho and Tokwa Factory 4. DSWD Region IVA 5. DOST-FPRDI 6. Manly Plastic Inc. 7. K&E Industrial Lime 8. Philippine Army Q2: One (1) partnership forged: Marc Daniel's Soya Products Q1: Seven (7) partnerships were forged: 1. Clearway Environmental Management Solutions, Inc. (CEMSI) Silang, Cavite 2. CENMACO, Inc. 3. Mama Rossa Distributing Company 4. Malayan Laboratory Malaysia 5. Premier Physics Metrologie (PPM) 6. SEE's International Food Mfg. Corp 7. Frux Foods
2. Amount of revenue generated from partnerships		25,000,000.0	25,000,000.0	25,000,000.0	25,000,000.0	100,000,000.0	142,324,854.7	46,882,911.2	60,921,509.43	0	250,129,275.33	+175,129,275.33	Q3: Five (5) DOST-Funded Projects; Two (2) PCIEERD-funded projects; Q2: Four (4) DOST-Funded Projects; Seven (7) PCIEERD-funded projects; Q1: 5 DOST-Funded Projects; 1 TAPI-funded project

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Output Indicators 1. Number of projects completed		0	0	1	19	20	3	0	1	22	26	+6	Q4 Projects Completed: 1. Development of Prototype 100L Low Cost Semi-Automated Reactor for the Production of Liquid Detergent Soap 2. Compressed Biogas Technology (CBT) for Household and Commercial Applications 3. Isolation, Purification and Characterization of Curcumin from Philippine Turmeric (Curcuma Longa L.) 4. Extraction, Characterization of Rubber Seed Oil and It's Synthesis to Biolubricant 5. Modular Innovation Center for Oils, Blends and Sauces 6. Development of Microbial Inocula for Industrial Applications 7. Production of freeze-dried lacasse for biotechnological application 1. Xylanase 8. Molecular Characterization of Lactic Acid Bacteria (LAB) from Fermented Foods in the Philippines 9. Genotypic Screening of Industrially-Important Enzymes Produced by Bacillus sp. Isolated from Soil 10. Nutrient Removal of Anaerobically-treated Piggery Wastewater 11. Development of Chemical Oxidant Delivery System for Remediation of Petroleum Contaminated Soil 12. Development of a Bench-Scale Biological Wastewater Treatment Design Facility 13. Food Safety Assessment of Hazards from Artisanal Food Processing Equipment used in Taho, Sorbetes, and Peanut Butter Processing in Taguig City, Metro Manila (former Food Safety Assessment of Hazards from Artisanal Food Processing Equipment used in Taho, Sorbetes, and Peanut Butter Processing in Parañaque City and Taguig City, Metro Manila) 14. Assessment of food safety needs of specialty food manufacturers in Metro Manila Weekend Markets 15. Development of a low-mineral sweet sorghum syrup as an alternative sweetener

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2. Percentage of projects implemented within the approved timeframe		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	0%	<p>16. Clarification and Concentration of Coconut Water and Philippine Calamansi Extracts using Microfiltration and Reverse Osmosis</p> <p>17. Development of Soft Ballistic Component of Bullet Proof Vest from Hybrid Composite local materials</p> <p>18. Functional Coating: Production and Performance Testing of Nano Silica-based Hydrophobic Coating</p> <p>19. Development of Ultrafiltration/Nanofiltration Hollow Fiber Membrane for Drinking Water Application (Phase 2)</p> <p>20. Innovative Ceramic Materials for Ballistic Protection</p> <p>21. Fabrication of Prototype Utility Tent as Temporary Shelter for Disaster and Natural Calamity Victims</p> <p>22. Fabrication of Prototype and Field Testing Performance of Floating Baby Capsule</p> <p>One (1) project completed in Q3: Application of Osmotic Dehydration as Pre-Treatment for Vacuum Frying Selected Fruits.</p> <p>No project scheduled for completion in Q2.</p> <p>Three projects for completion in December 2018 were extended to March 2019:</p> <p>1. Comparison of Quality of Dried Products Using Conventional Dryer and Heat-pump Dryer (March 2019)</p> <p>2. Brand Development of Unique Philippine Product (March 2019)</p> <p>3. Development of an Emergency Disinfection System of Drinking Water (March 2019)</p> <p>All projects are implemented in a timely manner</p>

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3. Percentage of projects completed which are published in peer-reviewed journals, presented in national and/or international conferences, or with IP Filed or approved		50%	50%	50%	50%	50%	38%	39%	44%	51%	51%	+1%	Five (5) projects completed in the last 5 years were presented in a national conference in Q3 and one (1) in Q2. *Overall 45 GAA projects out of 102 completed projects from the last 5 years were published/presented/patented as of Q3 2019 * Seven (7) Papers submitted for publication/presentation/patent pending approval of Journal/ISSI/Scopus/Host Organization to meet the 50% target.
Industrial Technology Transfer Program Outcome Indicators 1. Percentage of clients that rate the technology transfer as satisfactory or better		90%	90%	90%	90%	90%	100%	100%	100%	100%	100%	+10%	
Output Indicators 1. Number of knowledge/technologies diffused		5	7	10	8	30	15	25	4	18	62	+32	Q4: Total of eighteen (18) technologies were presented/diffused A. 45th Philippine Business on Exposition (16): 1. Vacuum fried (VF) F Okra 2. VF Carrot 3. VF Mango 4. VF Pineapple 5. Spray Dried (SD) Pineapple 6. SD Calamansi 7. SD Egg white 8. SD Banana 9. SD Vinegar 10. Freeze dried (FD) Corn 11. FD Green peas 12. FD Pineapple 13. FD Banana 14. FD Mango 15. Mungbean coconut milk 16. Thermally processed corn cob B. Natural Colorants Stakeholders' Meeting (1): 1. Purple Sweet potato powder C. Training (1): 1. Ginger processing (with FPD) Q3: Four (4) technologies diffused thru forums and technical assistance: 1. Setting up a Brick Making Facility for the Province of Antique

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													2. CRM Beverage 3. Abaca fiber composite for boat application 4. Pyrolyzer Q2: 10 technologies diffused thru training: 1. Formulation of Personal Care Products using Essential Oils 2. Use of Operation of Styro-Plastic Densifier 3. Operation of Vinegar Acetator Kit 4. Seminar of Thermal Processing 5. ITDI Vacuum Frying Technology (Vacuum Fried Squash) 6. Perfume Making 7. Nipa Processing 8. Personal Care Products (lotion, liquid handwash, hand sanitizer, shampoo) 9. Production of Essential Oils 10. Household Care Products (liquid dishwashing, fabric conditioner, liquid detergent) 1 technology diffused thru technical Assistance: 1. Assistance on setting-up of Halal Food Processing Center in Madrasah School, Maharlika Village, Taguig City 10 technologies featured in the IFEX Philippines 2019 "NXTFOOD ASIA" last May 24-26, 2019 at the World Trade Center: 1. Vacuum fried mussels (tahong) and anchovies (dilis) 2. Water Retort (chili in oil) 3. Drum dried flakes (mango, makapuno, dragon fruit, sweet potato) 4. Colorant from Rosella, Ailus, Purple Yam and Tiesa 5. Gourmet Salt 6. Shelf Stable Suman 7. Emergency Food Reserve (EFR) 8. Coconut Based Isotonic Drink 9. Ready-to-Eat Tabea 10. Spray dried fish paste (bagoong alamang, bagoong balayan, sukang pinakurat)

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2. Number of technologies transferred/commercialized through technology transfer agreement		1	1	2	1	5	3	0	3	3	9	+4	<p>Two (2) technologies featured in the Techno-Forum held at Pampanga and Baguio City last June 24-26, 2019:</p> <p>1. Electric Plastic Densifier</p> <p>2. Biogas Digester</p> <p>Q1:</p> <p>10 technologies diffused thru training:</p> <p>1. Bioreactor</p> <p>2. Charcoal Briquetting</p> <p>3. Tilapia Fish Drying</p> <p>4. Waste Analysis and Characterization Study</p> <p>5. Smoke Fish Processing</p> <p>6. Dual Drum Composter</p> <p>7. Packaging Trends</p> <p>8. Preparation of Food Bar using EFR technology</p> <p>9. Calamansi Processing</p> <p>10. Banana Processing (Ketchup and Flour)</p> <p>Five (5) technologies featured in the culminating activity last March 28, 2019:</p> <p>1. Nanoclay Production</p> <p>2. DOST Tablea</p> <p>3. Drum Drying</p> <p>4. Dietary Fiber from Calamansi</p> <p>5. Waste Wastewater Treatment System for Quick Service Restaurant</p> <p>Q4: Three (3) technologies transferred</p> <p>1. Vacuum fried squash</p> <p>-Angelica Jazon</p> <p>-Livegreen International Corp.</p> <p>2. Vacuum fried okra</p> <p>-Livegreen International Corp.</p> <p>3. Vacuum fried sweet potato</p> <p>-Livegreen International Corp.</p> <p>Q3: Three (3) MOATLA signed</p> <p>1-2. Bestmark Agro Industrial Enterprises for the Dual Drum Composter and Bioreactor</p> <p>3. Magic Melt Foods Inc. for the RTE Chicken Arroz Caldo</p> <p>No technologies transferred in Q2.</p> <p>Q1: Three (3) MOATLA signed</p> <p>1. Caridad Ilaya for the Salt Production and Iodization Facility</p> <p>2. GOT Heart Foundation, Inc. - Process for Production of Natural Analgesic Balm</p> <p>3. Corban Community Farms - Establishment of an ITDI Solar Biomass Dryer Demonstration Facility</p>

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3. Percentage of request for technology transfer that have been provided within the required time frame		100%	100%	100%	100%	100%	100%	-	100%	100%	100%	0%	not cumulative No technologies transferred in Q2.
Industrial Technology Technical Services Program Outcome Indicators 1. Percentage of customers that rate the technical services as satisfactory or better		90%	90%	90%	90%	90%	100%	100%	100%	100%	100%	+10%	
Output Indicators 1. Number of technical services rendered		4,000	4,000	5,000	4,000	17,000	6,965	5,019	6,863	5,887	24,734	+7,734	
2. Percentage of request for technical services that have been provided within the required time frame		90%	90%	90%	90%	90%	100%	100%	100%	100%	100%	+10%	
3. Number of clients benefitting from technical services		750	750	750	750	3,000	2,322	1,721	2,147	958	7,148	+4,148	


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