

QUARTERLY PHYSICAL REPORT OF OPERATION  
as of 4th Quarter 2025

Department DEPARTMENT OF SCIENCE AND TECHNOLOGY  
 Agency INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE  
 Operating Unit \_\_\_\_\_  
 Organization Code 190050000000

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Current Year Appropriations  
 Supplemental Appropriations  
 Continuing Appropriations  
 Off-Budget Account

Particulars	UACS CODE	Physical Targets					Physical Accomplishments					Variance as of Q4	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	8	9	10	11	12	13	14
<b>I. Industrial Technology R&amp;D Program</b>  <b>Outcome Indicators</b> 1. Number of partnerships with public and private stakeholders and international organizations		5	5	5	5	20	9	2	16	2	29	+9	Q4 partnerships 1. JD and Sons Plastics Manufacturing Inc 2. Department of Agriculture-Bureau of Fisheries and Aquatic Resources (DA-BFAR)  Q3 partnerships: 1-2. Department of Agriculture Regional Field Office 02 (DARFO), DA- Bureau of Animal Industry (BAI) (R&D: VIP Projects) 3-5. DOST Regional Office III, Samahang Manggagawa sa mga Kabahayan ng Negbalon (SAMAKANA), Municipal Government of Marilao (R&D: Development of Fish Powder from Arroyo Fish, Tilapia and Bidbid) 6. Philippine Institute of Pure and Applied Chemistry (PIPAC) (R&D: Detection and Monitoring of Chlorinated Ethenes and Organohalide Respiring Bacteria in the Philippine Water Bodies) 7. Y.E.S Export & Import Corporation (R&D: Application of Natural Food colors from cooked Ube Peels in glutinous rice balls and ube based products) 8. DENR-Environmental Management Bureau (EMB) (R&D: Assessment of Potentially Non-environmentally Acceptable Products/Packaging) 9-11. Quincypast Commercial, Mighty Plast Packaging Phils, Corporation, Glorious Industrial & Development Corp (R&D: Migration Studies of Hazardous Contaminants from Locally- Available Food Contact Materials and Articles projects) 12-14. Technological University of the Philippines (TUP), De La Salle University (DLSU), University of Newcastle - Newcastle Institute for Energy and Resources (MOU: Fuel Cell R&D and Testing Center) 15. Major Lizah D Pascual 0-18526 Medical Corps (R&D: Development of Artificial Nerve Guidance Conduits Based on Polycaprolactone/ Polyaniline/ Collagen Type 1 Composite Nanofibers for Peripheral Nerve Regeneration) 16. Ms. Felinita Aseron (Market testing: Shelf stable pasteurized calamansi extract in pouches using sous vide processing techniques)

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													Q2 partnerships: 1. Perkeno Plastics Inc. (R&D: Preliminary Screening on the Fabrication and Characterization of Weavable Polymer/Waste Vetiver Roots Composite for Furniture Applications) 2. Department of Agriculture - National Tobacco Administration (NTA) (R&D: Fabrication and Characterization of Lightweight Tobacco Stalk Short Fiber-Reinforced Biocomposite with High Thermal Stability)  Q1 partnerships: 1. G and G Fabrication Services (Design and Development of a Batch Spray-type Pasteurizer/ Phase 2: Fabrication and Testing) 2. Sees International Food Manufacturing Corporation (R&D: Utilization of Out-of-Specification Saba Bananas from Banana Chip Production in the Development of Shelf-stable Banana products) 3-4 . Dynamic Manufacturing Corporation & W Hydrocolloids Inc. (R&D: Migration Studies on Hazardous Contaminants from Locally-Available Food Contact Materials and Articles) 5. Chun I University, Japan (Japan-Philippines 6. Department of Agriculture-NFRDI (Technical Services) 7-9. Nayong Kalikasan Organic Farm, Cenmaco, Inc., & Philia Variety Store (CLAIM Project)
2. Amount of revenue generated from partnerships		25 M	75 M	40 M	10 M	150 M	63,330,854.86	78,277,884.40	89,345,354.64	227,406,901.77	458,360,995.67	+308,360,995.67	Received funds from DOST and attached agencies and other government agencies for the conduct of assisted projects.
<b>Output Indicators</b>													
1. Number of projects completed		2	2	1	20	25	2	2	3	32	39	+14	<b>Q4 Completed Projects:</b> 1. Pectin Probiotic Supplement: Formulation and Toxicity Studies (CED) 2. Design and Prototyping of Sodium-Ion Battery Using Renewable Materials for Solar PV System Energy Storage (Phase 2) - Upscaling Full-Cell Capacity and Overall Performance Enhancement (CED) 3. Valorization of Agro-Industry Processing Waste and By-Products through the Modular Multi-Industry Innovation Center (MMIC) (CED) 4. Design and Prototyping of a Fixed-Oil Extractor Setup (CED) 5. Detection and Monitoring of Chlorinated Ethenes and Organohalide Respiring Bacteria in the Philippine Water Bodies (EBD) 6. Improvement of Long-Term Preservation Protocols for Industrially Important EBD-ITDI Microbial Isolates (EBD)  7. Evaluate the Effectiveness of Different Constructed Wetland Systems in the Removal of Organic Matter from the Effluent coming from the DOST Sewage Treatment Plant (STP) to Improve its Potential for Reuse (EBD) 8. Development of Solar Powered Standalone Desalination System for Coastal Areas: Integration with SAFEWATRS and Reverse Osmosis Technology (EBD) 9. Implementation of an Effective Solid Waste Management Program for ITDI: Part III - Establishment and Operation of an Institutional Materials Recovery Facility (MRF) (EBD)

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													10. Production of Monoclonal Antibodies against Influenza and Coronavirus Recombinant Proteins (EBD) 11. Molecular UPLC-MALDI-TOF Analysis of Macronutrients of Proseses Sitaw Products 12. Design and Development of a Batch Spray-type Pasteurizer (EBD) 13. Process Improvement, Automation, and Upscaling of ITDI-Developed Acetator (FPD) 14. Process Development and Field Testing using MMFPF Aseptic Line for Shelf Stable Coconut Water and Coconut Milk in Aseptic Bags(FPD) 15. Development of High Fiber and High Protein Composite Flour for Food Industry Application (FPD)  16. Development of Food Pilot Plant and Innovation Center (FPPIC) Task Management System (FPD) 17. Upscale Production of Protein from Sitaw (FPD) 18. Nano TiO2 Coating System for Solar Panel Application (Phase 2) (MSD) 19. Fabrication and Characterization of Lightweight Tobacco Stalk Short Fiber-Reinforced Biocomposite with High Thermal Stability- (Phase 1) (MSD) 20. Preliminary Screening on the Fabrication and Characterization of Weavable Polymer/Waste Vetiver Roots Composite for Furniture Applications (Phase 1) 21. Hydrophobic Surface Modification of 3D-printed Membrane for Water Desalination Application (MSD)  22. Development of Vacuum 3D Printing Technology for Improved Performance of Additively Manufactured Composites (MSD) 23. Trace Heavy Metal Detection in Epoxy-based Die Attach Adhesives used in Semiconductor Packaging via Total Reflectance X-Ray Fluorescence Spectroscopy (TXRF) (MSD) 24. Carrageenan-Egg White-Edible Sachet (CEWES): A Sustainable Packaging Replacement for Instant Noodle Powdered Seasoning (PTD) 25. Method Development and Validation of Total Oxidizable Contaminants Migrating from Monolayered Low Density Polyethylene and Polypropylene Films by Single Extraction and Titration (PTD)  26. Simulation Study on the Development of Collapsible Toilet Bowl for Emergency/Disaster Operations Ph 2 (PTD) 27. Development and Evaluation of Performance and Safety of Self-heating Packs for Food Application (PTD) 28. Actual Market Simulation (AMSA) Plancogram Method Ph 2 Year 1 (PTD) 29. Performance Evaluation of the NML's Developed 1 Mega Newton Force Transducer Calibration System using a Master Load Cell and Force Generating Machine (NMD) 30. Provision of Proficiency Testing Scheme on Determination of pH in Drinking Water (NMD) 31. PT Scheme and Long-term Stability of Arsenic, Cadmium, Mercury, and Lead in Food Reference Materials (NMD)
													32. Application of Bacterial Microencapsulation Protocol for Reference Material Preparation (NMD)  Q3 Completed Projects: 1. Development of Sustained Release Essential Oil Based Polymeric Patch Formulation from Wastes of Citrus Limon and Citrus Grandia (L.) Osbeck (Rutaceae) Peels as Mosquito Repellent (CED) 2. Laboratory Scale Production of Chemically Activated Carbon from Peanut and Coconut Shell (CED) 3. Health and Safety Assessment of Potential Non-Environmentally Acceptable Products/Packaging (NEAP) (EBD)

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													<p>Q2 Completed Projects:</p> <ol style="list-style-type: none"> <li>Determination of prevalence of Per- and polyfluoroalkyl substances (PFAS) in groundwater resources in selected household communities in Laguna (EBD)</li> <li>Updating of Chemical and Hazardous Waste Management System of ITDI (EBD)</li> </ol> <p>Q1 Completed Projects:</p> <ol style="list-style-type: none"> <li>Synthesis of Nano-cellulose Fiber from Okara as Potential Component for Proton Exchange Membrane (PEM) in Fuel Cell (CED)</li> <li>Development of Algal-Bacterial (ALBA) Wastewater Treatment System for Swine Industry (Phase 2) (EBD)</li> </ol>
2. Percentage of projects implemented within the approved timeframe		100%	100%	100%	100%	100% (41/41)	100% (35/35)	100% (40/40)	100% (45/45)	100% (43/43)	100%	0%	Not cumulative
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		5%	5%	5%	5%	5% (6/130)	2.31% (3/130)	4.62% (6/130)	13.08% (17/130)	17.69% (23/130)	17.69%	+12.69%	<p>* 23 out of 130 completed GAA projects from the last 5 years (2020-2024) were published/ presented/ filed for IP as of Q4 2025.</p> <p>Not cumulative</p>
<b>II. Industrial Technology Transfer Program</b>													
<b>Outcome Indicators</b> 1. Percentage of clients that rate the technology transfer as satisfactory or better		90%	90%	90%	90%	90%	-	100% (2/2)	100% (4/4)	100% (2/2)	100% (8/8)	10%	<p>8 clients returned the feedback form and rated technology transfer as satisfactory or better in Q4 2025</p> <p>Not cumulative</p>

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<b>Output Indicators</b> 1. Number of knowledge/technologies diffused		15	25	25	25	90	71	27	6	4	108	+ 18	<b>Q4 2025: 4 knowledge/technologies were diffused through different platforms and media</b> 1. Calamansi Hydrosol Oral Care Products 2. Ylang ylang Hydrosol Oral Care Products 3. Chevron Jerky 4. Chevron Sausage  <b>Q3 2025: 6 knowledge/technologies were diffused through different platforms and media:</b> 1. Food Drying and Dehydration 2. Preparation of Alcoholic Liquor for Coco Vinegar Production 3. Self-heating food pack 4. RTE - Potato Carrot Soap 5. Modular Rain Water Collection 6. Candle type water filter  <b>Q2 2025: 27 knowledge/technologies were diffused through different platforms and media:</b> 1. Nanocomposite filaments for 3d-printed prosthetics 2. Power back-up system 3. Okara flour 4. RTE adlai porridge 5. RTE adlai champorado 6. Recycled waste laminates 7. Biocomposites from waste veliver 8. Natural colorants for cosmetics 9. Upgraded horizontal water spray retort 10. Calibration of Non-Automatic Weighing Instruments (NAWI) Laboratory Scales 11. Nata de Coco Production 12. Calibration of Liquid in Glass and Digital Thermometer 13. Humidity Measurement and Thermo Hygrometer Calibration 14. Salt Evaporating Setup 15. GMP for Household Care Products 16. Sensory Evaluation Methods 17. Essential Oil Extraction 18. Verification of Fuel Dispensers  19. Verification of Non Automatic Weighing Instruments (NAWI) 20. Meat Processing (Tocino and Longganisa) 21. Formulation of Household Care Products 22. Hair Concepts and Application to Cosmetic Industry 23. Extraction of Oil from Cashew Kernels 24. Calibration of Volumetric Wares Based on ISO 4787:2021 25. ISO 17025 Laboratory Management System 26. RTE Monggo 27. RTE Chicken Corn Soup  <b>Q1 2025: 71 knowledge/technologies were diffused through different platforms and media:</b> 1. Nanoclay/Nanocomposites 2. Thermoplastics 3. IDAS 4. Quantum Dots 5. 3D Printed Bioceramic Orbital Orbital Implant 6. RTE Arrozcaldo 7. Acetator Kit 8. Isotonic Drink 9. RTD Tablea 10. Gourmet Salt 11. Abaca Fiber reinforced 12. Safewaters 13. Bioreactor 14. Biogas 15. Dual Drum Composter

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													16. Household Tumbling Composter 17. OL Trap 18. Iodization machine 19. salt washer 20. salt spin dryer 21. cacao roster 22. cacao desheller 23. cacao grinder 24. wine kit 25. banana puree 26. banana powder 27. natural colorants 28. Dietary fiber (calamansi waste) 29. smoked salts  30. RTD Coconut milk 31. colorant from Monascus Purpureus 32. Drum dried fruitflakes 33. alternative sugar (nipa sap) 34. packaging for frozen durian 35. packaging for lechon 36. RTE Sweet Potato 37. RTE Smoked fish 38. RTE Cassava in Syrup 39. RTE Chicken Afritada 40. RTE Chicken Adobo 41. RTE White Rice 42. RTE Mixed vegetables 43. RTE Bangus sisig  44. RTE Beef curry 45. RTD Coconut Mungbean 46. RTE Beef Suman 47. RTE Chicken Egg 48. RTD Rice Milk 49. Vacuum Frying Technology 50. Improved packaging technology for shelf life extension ( Bukayo) 51. Improved packaging technology for shelf life extension ( Budin) 52. Packaging Technology (Monay) 53. Sagip Nutriflour 54. Calamansi Processing (Puree) 55. Calamansi Processing (RTD) 56. Mango Processing (Puree)  57. Mango Processing (RTD) 58. Mango Processing (Dried) 59. Emulsified chicken sausage 60. Oyster Sauce Processing 61. Ham Making 62. Alternative Flour 63. Dishwashing Liquid 64. Liquid Hand Soap

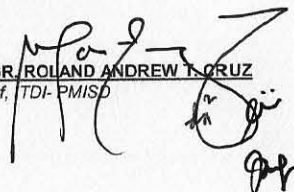
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													65. Basic Thermal Processing 66. Sous Vide Processing and Its Potential in the . Food Processing and Food Service Industry 67. Waste Analysis and Characterization Study (WACS) 68. Chemical and Hazardous Waste Mgt 69. Establishment of Decision Rules and Statement of Conformity in Testing and Calibration 70. Pressure Metrology and Calibration of Pressure Gauges 71. Calibration of Force Testing Machine
2. Number of technologies transferred/commercialized through technology transfer agreement		1	2	2	2	7	0	13	3	1	17	+10	<b>Q4 Technology Transferred Czary Techno Industry</b> 1. OL Trap  <b>Q3 Technologies transferred Western Mindanao State University</b> 1. Portable Biogas Digester 2. Dual Drum Composter 3. Household Tumbling Composter  <b>Q2 technologies transferred Nutridense Food Mfg Corp</b> 1. RTE Ginsang Munggo 2. RTE Chicken Arrozcaldo 3. RTE Chicken Corn Soup <b>SwissPharma Research laboratories</b> 4. RTE Sweet Potato 5. RTE Cassava in Syrup 6. RTE Smoked Fish Meal 7. RTE Beef-filled Suman 8. RTE Rice Milk 9. RTD Tablea 10. Isotonic Drink 11. RTD Coconut Mungbean 12. High Dietary Fiber from Calamansi Wastes <b>Quailerrific Mfg Corp</b> 13. RTE Quail Egg
3. Percentage of request for technology transfer that have been provided within the required time frame		95%	95%	95%	95%	95%	-	100% (3/3)	100% (3/3)	100% (2/2)	100% (8/8)	+5%	8 out of 8 requests for technology transfer were provided within the required timeframe as of Q4 2025  Not cumulative
<b>III Industrial Technology Technical Services Program</b> <b>Outcome Indicators</b> 1. Percentage of customers that rate the technical services as satisfactory or better		90%	90%	90%	90%	90% (3,900/4,350)	100% (893/893)	99.47% (938/943)	99.90% (970/971)	99.47% (942/947)	99.71% (3,743/3,754)	+9.71%	*3,743 out of 3,754 clients rated the technical services as satisfactory or better as of Q4 2025  Not cumulative

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<b>Output Indicators</b>													
1. Number of technical services rendered		5,000	7,000	6,000	5,000	23,000	13,831	20,356	7,924	20,211	62,322	+39,322	
2. Percentage of request for technical services that have been provided within the required time frame		90%	90%	90%	90%	90% (14,900/ 16,500)	100% (13,831/13,831)	100% (20,356/20,356)	100% (7,924/7,924)	100% (20,211/20,211)	100% (62,322/62,322)	+10%	*62,322 out of 62,322 of technical services were provided within the required timeframe Not cumulative
3. Number of clients benefitting from technical services		1,000	1,000	1,000	1,000	4,000	1,627	2,239	2,706	1,429	8,001	+4,001	

Prepared By:

In coordination with:

Approved by:

  
ENGR. ROLAND ANDREW T. CRUZ  
 Chief, ITDI-PMISD

  
ERIC M. CHARLTON  
 Chief, ITDI-FMD

  
Dr. ANNABELLE V. BRIONES  
 Director, ITDI