

MAJOR PROGRAMS AND PROJECTS, FY 2024

I. REGULAR FUND

A. Research and Development (R&D)

Division/Title of Programs/Projects/Activities

AGRICULTURAL MECHANIZATION DIVISION	
On-Going Projects	
1.	Design and Prototyping Services Unit
2.	Enhancing Local Capability to Design, Develop and Manufacture Agricultural Machineries to Accelerate Mechanization of Philippine Agriculture
3.	Design and Development of Single Cylinder Gasoline Engine
4.	Development of Adlai Grain Moisture Meter
5.	Development of Mechanical Green Coffee Bean Sorter Prototype II
6.	Modification and Field Testing of the PHilMech-Developed PTO-Driven Cultivator cum Weeder - Fertilizer Applicator for Sugarcane Farms
New Projects	
7.	Improvement and Field Testing of PHilMech-Designed Mechanical Hole Digger
8.	Design and Development of a Sugarcane De-Trasher and a Sugarcane Whole-Stalk Harvester
9.	Improvement and Field Testing of PHilMech Depulper for Different Coffee Varieties
10.	Improvement and Field Testing of Rice Straw Baling Machine
11.	Design Improvement of the CVS-based Mango Sorting Machine for Scaled-up Operations
12.	Design Modification of a Village-Scale Coconut Oil Expeller
Completed Projects	
13.	PHilMech-KAMICO Collaborative Program - Technology Performance Verification and Adaptation of Mechanize Onion Production System
14.	Modification and Performance Evaluation of a Four-Wheel Tractor-Mounted Cassava Planter
15.	Development of Portable Moisture Meter for Copra
16.	Field Testing of Manually Drawn Onion Seeder
BIO-PROCESS ENGINEERING DIVISION	
On-Going Projects	
17.	Development of Biodegradable Fruit Bag for Mango, Cacao, and Banana During the Fruit Development Stage
18.	Utilization of By-Products and Wastes from Sweet Potato Production for Industrial Applications

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New Projects
19. Development of Copra Drying System for Farmer-based Enterprise
Completed Projects
20. Development of Vacuum Evaporator and Processing Protocol for Small-Scale Production of Coconut Water Concentrate
21. Establishment of Pilot Sugarcane Wastes Silage and Pelleted Feeds Processing Enterprise
FOOD PROTECTION DIVISION
On-Going Projects
22. Biobanking of Stored Product Arthropods
23. Pesticide Resistance of Stored Product Insect and Mite Pests in the Philippines
24. Hazard Assessment on Imported Milled Rice
New Projects
25. Quality Assessment and Management Strategies in Maintaining the Quality and Safety of Dried and Smoked Fish Products in the Philippines
Completed Projects
26. Bioactivities of <i>Cymbopogon citratus</i> Extracts Against Postharvest Diseases of Mango (Module 1 In-Vitro and Module 2 In-Vivo)
27. Anti-Fungal Activities of Citrus Peel Extracts for the Management of Postharvest Disease of Banana (Phase 1: In-vitro; Phase 2: In-vivo)
28. Field Efficacy of the Warehouse Pirate Bug <i>Xylocoris flavipes</i> (Reuter Hemiptera: Anthocoridae) for the Management of Insect Pests in Storage
OFFICE OF THE DIRECTOR
On-Going Projects
29. Gender and Development
30. Establishment, Documentation, Implementation and Certification Facilitation of a Quality Management Program through an Integrated Management System IMS: ISO 9001:2015, ISO 14001:2015 and OHSAS 18001:2007
31. Operations, Sustainability, National Programs Implementation of the Office of the Directorate for Operations of PHilMech
PLANNING MANAGEMENT AND INFORMATION TECHNOLOGY DIVISION
Continuing
32. Establishment and Operationalization of the Agri-Fishery Mechanization and Engineering Resource Network (AFMechERN)
SOCIO-ECONOMIC POLICY RESEARCH DIVISION
On-Going Projects
33. Enhancing the Socio-Economic Viability of Mechanized Rice-based Farming System in the Philippines: RCEP Baseline and Impact Assessment
34. Value Chain Improvement of Carabao Mango in the Major Producing Areas in the Philippines
35. Establishment of Baseline Information on the Major Coconut Value Chains in

Support to the CFIDP-SCPF Program
36. Value Chain Improvement of Onion in Major Producing Areas in the Philippines
37. Updating the Status of Corn Mechanization in the Philippines
New Projects
38. Assessing the Status of Mechanization of Major Vegetables in the Philippines
39. Value Chain Improvement of Calamansi in Major Areas in the Philippines
LABORATORY SERVICES DIVISION
Continuing Projects
40. Implementation of Quality Assurance Program in LSD: Chemistry Laboratory Section
41. Provision of Regular Analytical Services
42. Implementation of Quality Assurance in Microbiological Laboratory
43. Cataloguing of Microbial Culture Collection
New Projects
44. Wastewater Quality Analysis, Monitoring and Management at PHilMech
PROJECTS IN SUPPORT OF THE GOVERNMENT'S EFFORTS TO COVID RESPONSE (COLLABORATIVE PROJECTS OF DIFFERENT R&D AND ESETS DIVISIONS OF PHILMECH)
Completed Projects
45. Improvement and Integration of Greenhouse Solar Dryer with Biomass Furnace and Multi-Tray Drying Cabinets to the Processing System of Small-scale Agribusiness Enterprises
46. Establishment of Pilot Sugarcane Wastes Silage and Pelleted Feeds Processing Enterprise

B. Extension Support, Education, and Training Services (ESETS)

Division/Title of Programs/Projects/Activities

APPLIED COMMUNICATION DIVISION
Continuing Projects/Activities
1. Creating Awareness on Postharvest and Mechanization Through Print and the Audio-visual Media
2. Publishing Journals and Other Technical Publications of PHilMech
3. Development Support communication on Postharvest and Mechanization
4. Public Awareness Campaign on Postharvest Technology
5. Strengthening of the PHilMech-Scientific Literature Services
6. Development of Easy-to-Access Information Materials on Postharvest and Mechanization
7. Process Documentation and Packaging of PHilMech Success Stories
8. PHilMech Visitor's Bureau
9. Improving Access of Grassroots to Information and Technologies on Postharvest

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and Mechanization
TECHNOLOGY MANAGEMENT & TRAINING DIVISION
<i>Continuing Projects/Activities</i>
10. Enhancing the Technical Capability of the Industry Stakeholders on Mechanization and Postharvest Technology for High Value Commodities
11. Technical Support to Intellectual Property Rights (IPR) Services
12. PHilMech Industrial Promotion (PIP)
13. Enhancing the Technical Capability of the Industry Stakeholders on Mechanization and Postharvest Technology for Rice
14. Enhancing the Technical Capability of the Industry Stakeholders on Corn and Cassava Mechanization and Postharvest Technology
15. Intensifying the Promotion and Adoption of PHilMech Generated Technologies aka Technology Forum/ Demonstration of PHilMech Generated Technologies
16. Technical Support to Industry Manpower Development on Mechanization and Postharvest Technology
17. Establishment and Operationalization of the PHilMech Regional Technology Management and Demonstration Center (PRTMDC)
ENTERPRISE DEVELOPMENT DIVISION
<i>Continuing Projects/Activities</i>
18. Enhancing Entrepreneurial Capability of Postharvest and Mechanization Adopters/ Investors through the Provision of Business Development Services Cycle 2
19. Building Viable Techno-Based Enterprise Models
20. Provision of Technical Assistance for Postharvest Enterprise Development Project
21. Empowerment of Women as Frontliners in the Establishment of Sustainable Techno-Based Enterprises in selected areas in the Philippines

C. Locally-funded Projects (LFP)

PROGRAM MANAGEMENT OFFICE
<i>Continuing Projects/Activities</i>
1. Establishment of Agricultural and Fisheries Postharvest Facilities

II. RICE COMPETITIVENESS ENHANCEMENT FUND (RCEF)

Division/Title of Programs/Projects/Activities

FACILITY MANAGEMENT AND FIELD OPERATIONS DIVISION
<i>On-going Program</i>
1. RCEF Mechanization Component/Program
APPLIED COMMUNICATION DIVISION

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On-going Sub-Program
2. Strategic Communication Services (a.k.a Communication Support for the Rice Mechanization)
ENTERPRISE DEVELOPMENT DIVISION
On-going Sub-Program
3. Enterprise Development and Sustainability Support
TECHNOLOGY MANAGEMENT & TRAINING DIVISION
4. Technical Capability Enhancement

III. COCONUT FARMERS AND INDUSTRY DEVELOPMENT PLAN

Division/Title of Programs/Projects/Activities

COCONUT TRUST FUND - FIELD MANAGEMENT AND OPERATIONS DIVISION
On-going Project
1. Program Component 5: Integrated Coconut Processing and Downstream Products (Shared Facilities)
APPLIED COMMUNICATION DIVISION
2. Communication Support for the Establishment of Shared Facilities for the Coconut Farmers and Industry Development Program
ENTERPRISE DEVELOPMENT DIVISION
Project 1: Enterprise Development Support Program (EDSP) for CFIDP-Shared Facilities for Processing (SFPs) / Project 1: Provision of Technical and Support Services on Enterprise Development for CFIDP Shared Facilities for Processing (SFPs) for Coconut Products, Intercrops and Related By-Products
Project 2: Enterprise Development Support Program (EDSP) for CFIDP-Shared Facilities for Processing (SFPs): Enhancement of Entrepreneurial Capability of CFIDP Shared Facilities for Processing (SFPs) Recipients
Project 3: Enterprise Development Support Program (EDSP) for CFIDP-Shared Facilities for Processing (SFPs) : Establishment of Sustainable Enterprises for CFIDP Shared Facilities for Processing (SFPs)
TECHNOLOGY MANAGEMENT & TRAINING DIVISION
Training Support to the Implementation of Integrated Coconut Processing and Downstream Products or Shared Facilities