



MAJOR PROGRAMS AND PROJECTS, FY 2023

I. REGULAR FUND

A. Research and Development (R&D)

Division/Title of Programs/Projects/Activities

AGRICULTURAL MECHANIZATION DIVISION
<i>On-Going Projects</i>
1. Design and Prototyping Services Unit
2. PHilMech-KAMICO Collaborative Program - Technology Performance Verification and Adaptation of Mechanize Onion Production System
3. Enhancing Local Capability to Design, Develop and Manufacture Agricultural Machineries to Accelerate Mechanization of Philippine Agriculture
4. Development of Portable Moisture Meter for Copra
5. Modification and Performance Evaluation of a Four-Wheel Tractor-Mounted Cassava Planter
6. Design and Development of Single Cylinder Gasoline Engine
<i>Completed Projects</i>
7. Field Testing of Mungbean Sheller in Small-Scale Farmer Cooperatives and Associations (FCAs)
8. Development of Sugarcane De-trasher Ex-Ante Evaluation of Sugarcane De-Thresher and Harvester
BIO-PROCESS ENGINEERING DIVISION
<i>On-Going Projects</i>
9. Development of Vacuum Evaporator and Processing Protocol for Small-Scale Production of Coconut Water Concentrate
10. Development of Biodegradable Fruit Bag for Mango, Cacao, and Banana During the Fruit Development Stage
11. Utilization of By-Products and Wastes from Sweet Potato Production for Industrial Applications
FOOD PROTECTION DIVISION
<i>On-Going Projects</i>
12. Biobanking of Stored Product Arthropod
13. Hazard Assessment on Imported Milled Rice
14. Bioactivities of Cymbopogon Citratus Extracts Against Postharvest Diseases of Mango (Module 1 In-Vitro and Module 2 In-Vivo)
15. Anti-Fungal Activities of Citrus Peel Extracts for the Management of Postharvest Disease of Banana (Phase 1: In-vitro; Phase 2: In-vivo)
16. Field Efficacy of the Warehouse Pirate Bug <i>Xylocoris flavipes</i> (Reuter Hemiptera: Anthocoridae) for the Management of Insect Pests in Storage



<i>New Projects</i>
17. Pesticide Resistance of Stored Product Insect and Mite Pests in the Philippines
OFFICE OF THE DIRECTOR
<i>On-Going Projects</i>
18. Gender and Development
19. 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
20. Program Management Office for RCEF Mechanization Program
21. RCEF-RPS Sub-Program: Pre-Implementation, Feasibility and Profiling
22. Establishment and Upgrading of Rice Processing Systems (RPS) under the RCEF Mechanization Program
23. Intensify Adoption of Crop Establishment Technologies: A Holistic ESETs Approach
24. RCEF Mechanization Program Monitoring and Reporting Information System
PLANNING MANAGEMENT INFORMATION DIVISION
<i>Continuing</i>
25. Establishment and Operationalization of the Agri-Fishery Mechanization and Engineering Resource Network (AFMechERN)
SOCIO-ECONOMIC POLICY RESEARCH DIVISION
<i>On-Going Projects</i>
26. Enhancing the Socio-Economic Viability of Mechanized Rice-based Farming System in the Philippines: RCEP Baseline and Impact Assessment
27. Value Chain Improvement of Carabao Mango in the Major Producing Areas in the Philippines
<i>New Project</i>
28. Establishment of Baseline Information on the Major Coconut Value Chains in Support to the CFIDP-SCPF Program
29. Value Chain Improvement of Onion in Major Producing Areas in the Philippines
<i>Completed Projects</i>
30. Assessment on the Postproduction Losses of Mango, Cardava Banana, Calamansi and Bulb Onions in Major Producing Areas
LABORATORY SERVICES DIVISION
<i>Continuing Projects</i>
31. Implementation of Quality Assurance Program in LSD: Chemistry Laboratory Section
32. Provision of Regular Analytical Services
33. Implementation of Quality Assurance in Microbiological Laboratory
34. Cataloguing of Microbial Culture Collection



ON-GOING PROJECTS IN SUPPORT OF THE GOVERNMENT'S EFFORTS TO COVID RESPONSE (COLLABORATIVE PROJECTS OF DIFFERENT R&D AND ESETS DIVISIONS OF PHILMECH)

Ongoing Projects

35. Improvement and Integration of Greenhouse Solar Dryer with Biomass Furnace and Multi-Tray Drying Cabinets to the Processing System of Small-scale Agribusiness Enterprises
36. Establishment of Pilot Sugarcane Wastes Silage and Pelleted Feeds Processing Enterprise

Completed Projects

37. Improvement and Integration of Fluidized Bed Dryer to the Two-stage Grain Drying Strategy of Small-Scale Rice Farmer Cooperatives and Associations (FCAs)
38. Pilot Adaptation of the PHilMech- KAMICO Designed Corn Mill for Village-Level Application
39. Establishment of pilot briquetting enterprise for cacao pod husks and other related biomass
40. Application of PHilMech Mango Pectin-based Edible Coating to Extend the Shelf-life of Fresh Mango
41. Establishment of Small-Scale Fruit-/ Vegetable-Blended Coconut Water Processing Enterprise (Performance Testing and Validation)
42. Piloting of Modules for the Provision of Mechanized Planting of Onion and Other Vegetables

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. Public Awareness Campaign on Postharvest Technology
4. Strengthening of the PHilMech-Scientific Literature Services
5. Development of Easy-to-Access Information Materials on Postharvest and Mechanization
6. Process Documentation and Packaging of PHilMech Success Stories
7. PHilMech Visitor's Bureau
8. Improving Access of Grassroots to Information and Technologies on Postharvest and Mechanization

TECHNOLOGY MANAGEMENT & TRAINING DIVISION

Continuing Projects/Activities

9. Enhancing the Technical Capability of the Industry Stakeholders on Mechanization and Postharvest Technology for High Value Commodities



10. Technical Support to Intellectual Property Rights (IPR) Services
11. PHilMech Industrial Promotion (PIP)
12. Enhancing the Technical Capability of the Industry Stakeholders on Mechanization and Postharvest Technology for Rice
13. Enhancing the Technical Capability of the Industry Stakeholders on Corn and Cassava Mechanization and Postharvest Technology
14. Intensifying the Promotion and Adoption of PHilMech Generated Technologies aka Technology Forum/ Demonstration of PHilMech Generated Technologies
15. Technical Support to Industry Manpower Development on Mechanization and Postharvest Technology
16. Establishment and Operationalization of the PHilMech Regional Technology Management and Demonstration Center (PRTMDC)
ENTERPRISE DEVELOPMENT DIVISION
<i>Continuing Projects/Activities</i>
17. Enhancing Entrepreneurial Capability of Postharvest and Mechanization Adopters/Investors through the Provision of Business Development Services Cycle 2
18. Building Viable Techno-Based Enterprise Models
19. Provision of Technical Assistance for Postharvest Enterprise Development Project
20. Empowerment of Women as Frontliners in the Establishment of Sustainable Multi-Commodity Solar Tunnel Dryer (MCSTD) Based Enterprises in selected areas in the Philippines
21. Development of Palay Micro-Cleaner with Brown Rice Grader as Integral Part of the Brown Rice Impeller Micro Mill (BRIMM)
<i>New Project</i>
22. Enterprise Development Support Program (EDSP) for CFIDP – Shared Facilities for Processing (SFPs)

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



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Department of Agriculture
Philippine Center for Postharvest Development and Mechanization
Science City of Muñoz, Nueva Ecija, Philippines
www.philmech.gov.ph
ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 CERTIFIED



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)