



Philippine Center for Postharvest Development and Mechanization PROGRAMS/ACTIVITIES/PROJECTS (PAPs), FY 2020

I. REGULAR FUND

A. Research and Development (R&D)

Areas of Concern/Title of Programs/Projects/Activities

AGRICULTURAL MECHANIZATION AND INSTRUMENTATION
<i>On-Going Projects</i>
1. Establishment of Rubber Sheet Processing System for Farmers of Kidapawan City, North Cotabato
2. Establishment of Abaca Fiber Processing System for Farmers of North Cotabato
3. Pilot Testing of the Developed Rolling Corn Mill for Village-Level of Operation
4. Design and Prototyping Services Unit
5. Field Testing of Micro- Impeller Brown Rice Huller
6. Field Testing of CVS- based Mango Sorting Machine
<i>New Projects</i>
7. Development of Hybrid Shallow-Tube Well and Solar Powered Irrigation System (STW-SPIS)
8. Field Testing and Performance Evaluation of Village-Level Corn Milling Machine
BIO-PROCESS AND FOOD ENGINEERING
<i>On-Going Projects</i>
9. Improvement and Optimization of the KIPA- PHilMech Designed Oil Extractor for Citronella and Lemon Grass
10. Profiling and Characterization of Precursors Responsible for Flavor and Aroma Development in Local Cacao Beans
11. Banana (Cavendish var.) Powder Derived From Vacuum Microwave Drying Method
<i>Completed Projects</i>
12. Improvement of Tablea Processing System
SOCIO-ECONOMICS AND POLICY RESEARCH
<i>On-going Projects</i>
13. Level of Awareness and Extend of Adoption of Farm Mechanization Technologies in Rice Production
14. Comparative Economic Evaluation of Drying System
15. Establishment of Abaca Fiber Primary Processing System for Farmers of North Cotabato
16. Establishment of Rubber Sheet Primary Processing System for Farmers of Kidapawan City, North Cotabato



17. Effects of Mechanization to the Postproduction Losses of White Corn Used as Food
18.
19. Establishment of Baseline Information and Organization of Technology Used in the Production and Postproduction of High Value Crops
20. Enhancing the Socio- Economic Viability of Mechanized Rice-Based Farming Systems in the Philippines: Baseline and FCA Model Establishment
Completed Projects
21. Effects of Mechanization to the Postproduction Losses of Yellow Corn Used as Feed
22. Adaptability of Multi- Row Mechanical Onion Seeder in Iloilo Province
FOOD PROTECTION AND SAFETY
On-going Projects
23. Establishment of Museum for Insects Associated with Stored Products
24. Molecular Identification of Insects and Mites
25. Field Testing of Ethanol Vapor Releasing System in Extending the Shelf-life of Broccoli
Completed Projects
26. Development of an Acoustic Detection Instrument for the Identification and Monitoring of Stored-Grain Insects in the Philippines
LABORATORY SERVICES
Continuing Projects
27. Implementation of Quality Assurance Program in LSD: Chemistry Laboratory Section
28. Provision of Regular Analytical Services
29. Implementation of Quality Assurance in Microbiological Laboratory
30. Cataloguing of Microbial Culture Collection
On-going Projects
31. Verification of Different Preservation Techniques on the Viability and Stability of Short and Long-Term Storage of Microorganisms
NEW PROJECTS in Support of the Government's Efforts to COVID Response (Collaborative projects of different R&D and ESETS divisions of PHilMech)
1. Improvement and Integration of Fluidized Bed Dryer to the Two-stage Grain Drying Strategy of Small-Scale Rice Farmer Cooperatives and Associations (FCAs)
2. Improvement and Integration of Greenhouse Solar Dryer with Biomass Furnace and Multi-Tray Drying Cabinets to the Processing System of Small-scale Agribusiness Enterprises
3. Pilot Adaptation of the PHilMech- KAMICO Designed Corn Mill for Village-Level Application



4. Establishment of pilot briquetting enterprise for cacao pod husks and other related biomass
5. Application of PHilMech Mango Pectin-based Edible Coating to Extend the Shelf-life of Fresh Mango
6. Establishment of Small-Scale Fruit/Vegetable-blended Coconut Water Processing Enterprise(Performance Testing and Validation)
7. Establishment of Pilot Sugarcane Wastes Silage and Pelleted Feeds Processing Enterprise
8. Piloting of Modules for the Provision of Mechanized Planting of Onion and Other Vegetables
9. Accelerating the Development and Adaptation of Brown Rice MicroMill for the Filipino Rice Farmers

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

Division/Title of Programs/Projects/Activities

APPLIED COMMUNICATION DIVISION
<i>Continuing Projects/Activities</i>
1. Creating General Awareness on Postharvest Mechanization Through Print and 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 Support communication on Postharvest and Mechanization
6. Development of Easy-to-Access Information Materials on Postharvest and Mechanization
7. Communication Support for the Rice Mechanization Program
8. Access Information Materials on Postharvest and Mechanization
9. Process Documentation and Packaging of PHilMech Success Stories
10. PHilMech's Visitor's Bureau
11. Improving Access of Grassroots to Information and Technologies on Postharvest and Mechanization
TECHNOLOGY MANAGEMENT & TRAINING DIVISION
<i>Continuing Projects/Activities</i>
12. Enhancing the Technical Capability of the Industry Stakeholders on Mechanization and Postharvest Technology for High Value Commodities
13. Technical Support to Intellectual Property Rights (IPR) Services
14. PHilMech Industrial Promotion (PIP)
15. Enhancing the Technical Capability of the Industry Stakeholders on Corn and Cassava Mechanization and Postharvest Technology
16. Enhancing the Technical Capability of the Industry Stakeholders on Mechanization and Postharvest Technology for Rice



17. Intensifying the Promotion and Adoption of PHilMech Generated Technologies aka Technology Forum/Demonstration of PHilMech Generated Technologies
18. Technical Support to Industry Manpower Development on Mechanization and Postharvest Technology
19. Establishment and Operationalization of the PHilMech Regional Technology Management and Demonstration Center (PRTMDC)
ENTERPRISE DEVELOPMENT DIVISION
<i>Continuing Projects/Activities</i>
20. Enhancing Entrepreneurial Capability of Postharvest and Mechanization Adopters/Investors through the Provision of Business Development Services Cycle 2
21. Provision of Technical Assistance for Postharvest Enterprise Development Project
22. Empowerment of Women as Frontliners in the Establishment of Sustainable Multi-Commodity Solar Tunnel Dryer (MCSTD) Based Enterprises in selected areas in the Philippines
23. Technical Assistance Towards the Development of Mango Pectin-Based Enterprises
24. Gender and Development
<i>Extension-Related Project</i>
25. Building Viable Community-Based Coffee Processing Enterprise Models (Cycle II)
26. Rice Processing Enterprise for Farmers: Sustainability of KOICA- RPCs in the Philippines (RiPEFarm)

II. RICE COMPETITIVENESS ENHANCEMENT FUND (RCEF)

Areas of Concern/Title of Programs/Projects/Activities

PROGRAM MANAGEMENT AND FACILITY MANAGEMENT AND FIELD OPERATIONS
<i>On-going Program</i>
1. RCEF Mechanization Component/Program
APPLIED COMMUNICATION DIVISION
<i>On-going Project</i>
2. Strategic Communication Services (a.k.a, Communication Support for the Rice Mechanization Program)
ENTERPRISE DEVELOPMENT DIVISION
<i>On-going Project</i>
3. Enterprise Development and Sustainability Support
TECHNOLOGY MANAGEMENT & TRAINING DIVISION
<i>On-going Project</i>
4. Technical Capability Enhancement