

**Philippine Center for Postharvest Development and Mechanization**  
**MAJOR PROGRAMS AND PROJECTS, FY 2019**

**DIVISION/ TITLE OF PROGRAMS/PROJECTS/ACTIVITIES**

<b>PLANNING, MANAGEMENT AND INFORMATION TECHNOLOGY DIVISION (PMITD)</b>
Monitoring and Evaluation of Agency Programs, Projects and Related Activities
Physical and Financial Plan, Technical Evaluation Group Review and Planning Workshops
Agricultural Mechanization and Postharvest Research, Development and Extension Agenda Formulation
Management and Maintenance of the PHilMech's Postharvest and Agricultural Machineries Databases
Establishment of the Agricultural and Fisheries Mechanization Engineering Resource Network (AfMechERN)
Establishment and Operationalization of the Agricultural and Fisheries Mechanization Research, Development and Extension Network (AFMechRDEN)
Information System and Database Development, and ICT Facilities Upgrading and Maintenance
Audio-Visual Maintenance
<b>FACILITY MANAGEMENT AND FIELD OPERATIONS DIVISION (FMFOD)</b>
<i>New</i>
PHilMech Communication Support for the RCEF Mechanization Program
Enhancing the Technical Capability of the Stakeholders on Rice Mechanization: RCEF Extension Services Component
Enterprise Development Support for the Rice Mechanization Program
Facility Distribution of the Rice Competitiveness Enhancement Program Mechanization
<i>On-going</i>
Sustainability Program and Provision of Technical Assistance for the Mechanization and Postharvest Facilities/Equipment Distributed Nationwide in Support to Rice Mechanization Program, Organic Agriculture and Trampoline
Mechanized Rice Farming System in North Cotabato
<b>APPLIED COMMUNICATION DIVISION (ACD)</b>
<i>Continuing Projects</i>
Creating Awareness On Postharvest And Mechanization Through Print, Electronic, And Social Media
Publishing Postharvest Journals and Other Technical Publications of PHilMech
DSC for Postharvest Mechanization Technologies
Public Awareness Campaign on Postharvest Technology
Strengthening of the PhilMech Scientific Literature Services
Communication Support for the Rice Mechanization Program
Development of Easy to Access IEC Materials on Postharvest and Mechanization Technologies
Media Relations in Support to the National Postharvest Mechanization Program
Process Documentation, Packaging and Dissemination of PHilMech Success Stories
PHilMech's Visitor's Bureau

Improving Access of Grassroots to Information and Technologies on PH Mechanization through Techno Gabay Program
<b>TECHNOLOGY MANAGEMENT AND TRAINING DIVISION (TMTD)</b>
<b><i>Continuing Projects</i></b>
Curriculum & Instructional Materials Development and Packaging
Provision of Technical Assistance to other Agencies on Training related Matters
Techno-talakayan on Mechanization & Postharvest Technologies
Technical Symposium/Conference on Mechanization and Postharvest Technologies
Technical Support to Industry Manpower Development - Accreditation & Certification of PHilMech Training Programs
Technical Support to Industry Manpower Development Assessment & Technology Monitoring on the Status of Trained Participants on Postharvest & Mechanization
Enhancing the Technical Capability of the Industry Stakeholders on Mechanization and Postharvest Technologies for HVCs
Technical Support to Intellectual Property Rights (IPR) Services
PHilMech Industrial Promotion Program (PIPP)
Enhancing the Technical Capability of the Industry Stakeholders on Rice Postharvest Technologies and Mechanization
Enhancing the Technical Capability of the Industry Stakeholders on Corn & Cassava Postharvest Technologies and Mechanization
Intensifying the Promotion and Adoption of PHilMech Generated Technologies a.k.a. Technology Forum/ Demonstration of PHilMech Generated Technologies
Technical Support to Industry Manpower Development on Mechanization and Postharvest Technology
Establishment and Operationalization of the PHilMech Regional Technology Management and Demonstration Center (PRTMDC)
<b>ENTERPRISE DEVELOPMENT DIVISION (EDD)</b>
<b><i>Continuing Projects</i></b>
Enhancing Entrepreneurial Capability of Postharvest and Mechanization Adopters/Investor Through the Provision of Business Development Services (Cycle 2)
Provision of Technical Assistance to PH Enterprise Development
Empowerment of Women as Frontliners for a Sustainable Multi-Commodity Solar Tunnel Dryer (MCSTD) Based Enterprises in the Philippines
Technical Assistance Towards the Development of Mango Pectin-based Technology at Commercial Level of Operation
<b><i>On-going</i></b>
Buliding Viable Community-Based Coffee Processing Enterprise Models (Cycle II)
Rice Processing Enterprise for Farmers: Sustainability of KOICA-RPCs inthe Philippines
Brown Rice Processing Enterprise Showcasing PHilMech Impeller Rice Mill Technology
Corn Grits Processing Enterprise Showcasing PHilMech Corn Mill Technologies
<b><i>Completed</i></b>
Development of Selected Rice Processing Centers into Model Agribusiness Enterprise
<b>AGRICULTURAL MECHANIZATION DIVISION (AMD)</b>
<b><i>New</i></b>

Field Testing of CVS-based Mango Sorting Machine
Field Testing of Micro Impeller Brown Rice Huller
Pilot Testing of the Developed
Design and Development of Engine-Driven Bailing Machine
<b><i>On-going</i></b>
Design and Development of a Cassava Planter
Establishment of Rubber Sheet Primary Processing System for Farmers of Kidapawan City, North Cotabato
Development of Groundnut Digger/Combine
Establishment of Abaca Fiber Primary Processing System for Farmers of North Cotabato
Development of Hole Digger for Selected Plantation Crops
Development of Mungbean Sheller with Drudgery Reduction for Rural Women
Design and Development of Fish Sorting Machine for Milkfish in Region I
Design and Prototyping Services Unit
Design and Development of GreenHouse Solar Dryer for Food Grade Cassava Dryer
<b><i>Completed</i></b>
Development of Commercial-Scale Belt-type Dryer with combination Far-Infrared and convection heating for Rapid Drying of Mango Slices
<b>BIO-PROCESS ENGINEERING DIVISION (BPED)</b>
<b><i>New</i></b>
Development and Dissemination of Agricultural Products Processing Technologies
<b><i>On-going</i></b>
Utilization of Sugarcane Crop Waste (Field Trash) for Fuel Briquette and Animal Feed Production
Microencapsulation of Moringa Leaf Extracts by Spray Drying for Food and Nutraceutical Applications
Improvement and Optimization of the KIPA-PHilMech Designed Oil Extractor
Hydrochar Production from Biomass by hydrochar Carbonization Process
Improvement of Tablea Processing System
Profiling and Characterization of Precursors Responsible for Flavor and Aroma
Banana (Cavendish var.) Powder Derived From Vacuum Microwave Drying Method
Production of Moringa (Moringa oleifera) Powder Using Multi-Commodity Solar Tunnel Drye
<b><i>Completed</i></b>
Stability of Pasteurized Pure and Fruit/Vegetable-Blended Coconut Water During Storage Using Different Packaging Materials
<b>SOCIO-ECONOMIC POLICY RESEARCH DIVISION (SEPRD)</b>
<b><i>New</i></b>
Enhancing the Socio-Economic Viability of Mechanized Rice-Based Farming Systems in the Philippines: Baseline and FCA Model Establishment
Establishment of Baseline Information and Organization of Technology Used in the Production and Postproduction of High Value Crops
<b><i>On-going</i></b>
Value Chain Analysis and Improvement of Tablea Processing System in the Philippines
Effects of Mechanization to the Postproduction Losses of Yellow Corn Used as Feed

Establishment of Abaca Fiber Primary Processing System for Farmers of North Cotabato (Value Chain Analysis)
Establishment of Rubber Primary Processing System for Farmers of Kidapawan City (Value Chain)
Assessment of Corn Used as Food: A Gender Responsive Value Chain Approach
Effects of Mechanization to the Postproduction Losses of Corn as Food
Assessment of Rice Milling System
Adaptability of Multi- Row Mechanical Onion Seeder in Iloilo Province
Pilot Testing of Integrated Soybean Production-Processing Technologies towards Accelerating the Development of Local Soybean Industry in the Philippines (Nueva Ecija, Nueva Vizcaya, Tarlac, Pampanga, Manila, Leyte and Mindanao - Phase III)
<b>Completed</b>
Impact of the Adoption of Mechanical Rice Transplanter in the Philippines
Socio-economic Dimensions of the Adoption and Use of Rice Combine Harvester in the Philippines
Assessment of Yellow Corn Used As Food: A Gender Responsive Value Chain Approach
Assessment of Yellow Corn Used As Feed: A Gender Responsive Value Chain Approach
Pilot Testing of 12-Row 4W Tractor-Driven Onion Mechanical Seeder
Pilot Testing of Coconut Water Processing Enterprise in Selected Areas of the Philippines
<b>FOOD PROTECTION DIVISION (FPD)</b>
<b>Continuing Project</b>
Establishment of Museum for Insects associated with Stored Products
<b>On-going</b>
Field Treatment Using Microbial Control Agents Against Anthracnose Infecting Mango Fruits
Development of an Acoustic Detection Instrument for the Identification and Monitoring of Stored-Grain Insects in the Philippines
Molecular Identification of Stored Product Insects and Mites
Population Augmentation Releases of Predator <i>Xylocoris flavipes</i> for the Control of Residual Infestation of Insect Pests in Empty Warehouses
<b>Completed</b>
Screening of Plant Botanical Extracts Against Postharvest Diseases (Phase 1-In-Vitro Assay)
<b>LABORATORY SERVICES DIVISION (LSD)</b>
<b>Continuing</b>
Implementation of Quality Assurance Plans in Laboratory Services: Chemistry Laboratory
Provision of Regular Analytical Services
Implementation of Quality Control Procedures in Microbiological Laboratory
Cataloguing of Microbial Cultures and Collections
<b>On-going</b>
Development of Digital Image-based Cultural-Morphometric Technique of Fungal Identification
Verification of Different Preservation Technique on the Viability and Stability of Short and Long Term Storage of Microorganisms