



Standardization, Productivity, Innovation & Certification for Enterprises in Food Processing in Western Visayas

Maria Dolor Villaseñor Food Processing Division Industrial Technology Development Institute, DOST

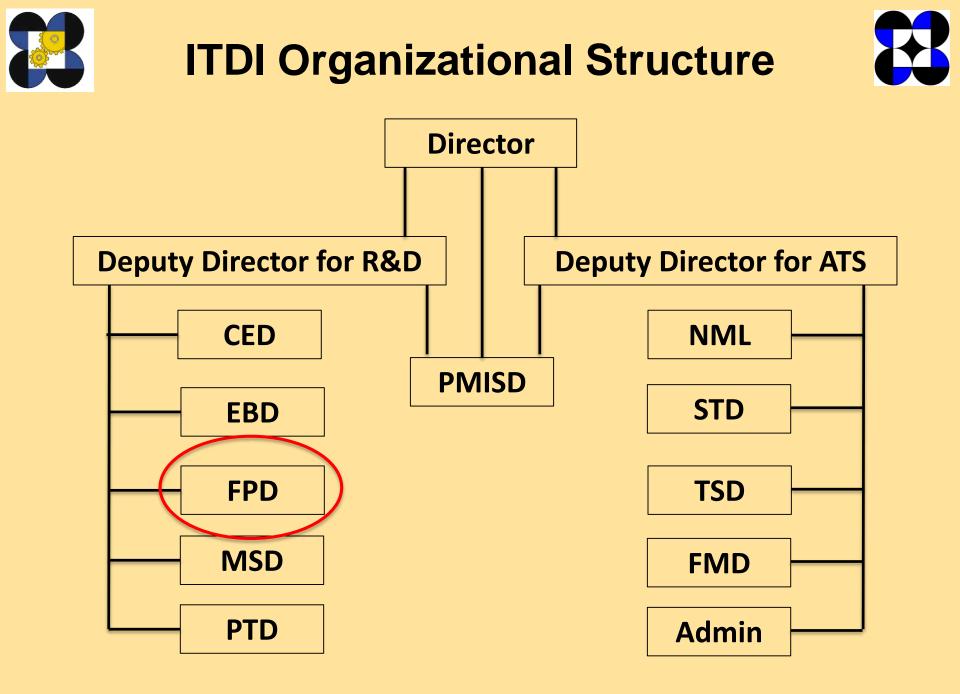
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Industrial Technology Development Institute

DOST Science Complex Gen. Santos Ave., Bicutan, Taguig City





Philippine Ethnic Food Products

- Product development & improvement
 - ♦ Drying
 - ♦ Thermal processing
 - ♦ Food fermentation
- Sanitary equipment design & proto-typing
- Establishment of food safety system for selected foods (peanut butter, *taho*, *sorbetes*)



- 1. Product &/or Process development:
 - Acetator for vinegar production
 - Wine kit for wine fermentation
 - Virgin coconut oil (centrifuge process)
 - Muscovado process (improved)
 - Alternative sugars (coco sugar, nipa sap, pineapple)
 - Improved starter for rice wine (tapuy)
 - Emergency Food Ration (EFR)
 - Vacuum frying technologies
 - Drum drying of fruit flakes
 - Tablea processing



2. Certification readiness

- Shelf-life tests
- Product specifications
- GMP audits & training
- HACCP audits & training
- Standard compliance assistance & support
- Thermal process evaluation
 - Heat penetration tests
 - Heat distribution tests



- 3. Sensory profiling
 - Human panel
 - Texture meter
 - Color meter
 - Electronic sensors







4. Equipment & process set-up

- Design of sanitary equipment
- Sanitary equipment fabrication supervision
- Plant lay-out



Raw Brown Sugar (Dumaguete)



5. Facility usage

- Thermal processing line
- VCO processing line
- Beverage processing line
- Vacuum frying line
- Drying & dehydration line
- 6. Trainings, consultancy thru the regional offices



- 1. Development of Philippine National Standards (in cooperation with FDA, BAFPS, BPS, UP)
 - Flour-based confectioneries (*polvoron*, *piaya*, *barquillos*)
 - Milk-based confectioneries (pastillas, yema)
 - Fried corn snacks
 - Basi
 - Dried tropical fruits



- 2. DOST Regional Food Innovation Centers
 - Assistance in lay-out
 - Performance testing of food processing equipment
 - Training of FIC personnel (operations of equipment & product development)
 - ✓ Davao Philippine Women's Center
 - Cagayan Cagayan State University
 - ✓ Tacloban Eastern Visayas State University



- Training of FIC personnel: Focus: Operations of equipment (May 4-15, ITDI)
 - > Region 4A: Los Baños
 - > Region 4B: Mindoro
 - > Region 5: Bicol
 - > Region 6: Guimaras
 - > Region 9: Zamboanga
 - > Region 10: Cagayan de Oro
 - > NCR: Diliman







- Training of FIC personnel:
 - Focus: Product development (July 2015, ITDI)
 - All regional Food Product Development Teams (FPDTs)
 - Focus: Recognition of Most Innovative Products (December 2015, PCIEERD)
 - Products produce using 3 FIC equipment (vacuum fryer, spray dryer, water retort)



Additional Information



- SIAL ASEAN
 - World Trade Center, June17-19
- ASEAN Food Conference
 SMX Convention Center, June 24-26





THANK YOU!