KEMENTERIAN PERUSAHAAN PERLADANGAN DAN KOMODITI

MPOB

27th MPOB TOT 2021

TRANSFER OF TECHNOLOGY

SEMINAR & EXHIBITION



VALUE ADDED FEED AND FOOD FROM OIL PALM PRODUCTS

Farm to Fork

Research Focus Area : Sustainability Development
Program : Value Addition

TECHNOLOGY HIGHLIGHTS

MPOB TT 667
Goat Feed Pellet Formulation with the Inclusion of Oil Palm By-Products

MPOB TT 578
Palm Kernel Meal-Based Broiler Starter and Finisher Formulations (BR1501)

Sustainable Oil Palm Products for Feed

Versatile Palm Oils & Fats for Food

MPOB TT 663
Palm-based spreadable cream cheese

MPOB TT 625
Palm-based multipurpose liquid creamer

DESCRIPTION OF TECHNOLOGIES

Sustainable Oil Palm Products for Feed

- Utilization of oil palm by-products in feed of livestock industry, such as goat and broiler, is the strategy to increase the livestock productivity and sustainability.
- It reduces the cost of feed production and lowers the reliance of imported feed materials.

Versatile Palm Oils & Fats for Food

- Palm oils and fats are very versatile and flexible in the application of a wide range of food products.
- Their unique characteristics could facilitate the formulation of products such as palm-based spreadable cream cheese and palm-based multipurpose liquid creamer.

NOVELTY/HIGHLIGHTS

- Cost-effective feed formulation with complete nutrient requirements for broiler and goat
- Good body weight gain and similar growth performance to livestock fed with commercial feed pellets
- Healthier choice - free of trans fatty acid and cholesterol, and enriched with palm phytonutrients
- Has good nutritional values, being rich in palm vitamin E (tocotrienol)
- Reduced processing time, low production costs and highly profitable

ADVANTAGES

MPOB TT667

- Goat feed pellet formulation with 50% oil palm by-products as replacement for imported feed ingredients
- Economic Analysis:
  - CAPEX: RM 1,340,000.00
  - Payback Period: 3.7 years
  - IRR: 34.53%

Goat Feed Pellet Formulation with the Inclusion of Oil Palm By-Products

MPOB TT578

- Cost-effective broiler feed formulations containing palm kernel meal as protein source for excellent broilers' performance
- Economic Analysis:
  - CAPEX: RM370,000
  - Payback Period: 3 years
  - IRR: 29%

Palm Kernel Meal-Based Broiler Starter and Finisher Formulations

MPOB TT663

- Reduced processing time and low production costs
- Economic Analysis:
  - CAPEX: RM1,045,000
  - Payback Period: 4.5 years
  - IRR: 52.62%

Palm-based spreadable cream cheese

MPOB TT625

- Can substitutes dairy and coconut creamer; suitable for vegan & cost effective.
- Economic Analysis:
  - CAPEX: RM 800,000
  - Payback Period: 3 Years
  - IRR: 43%

Palm-based multipurpose liquid creamer



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Sawit Anugerah Tuhan