

Improvement of feeding and feed management efficiency  
in aquaculture production in the Philippines (TCP/PHI/3404)

## Project Inception Meeting

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# PROJECT OUTPUTS & DELIVERABLES

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## Project Framework: Impact

- The impact/primary development goal of the project is to support the sustainable development and management of the aquaculture sector:
  - a. increase farm production efficiencies and economic returns,
  - b. generate alternative employment opportunities and increase incomes of the rural population, and
  - c. contribute to the food security and welfare objectives of the country.



# Project Framework: Impact

- The project is expected to have a significant impact on improving the milkfish and tilapia aquaculture in the Philippines with the possibility of application of the methodologies and outputs that may be relevant to other cultured species in the Philippines and in neighbouring countries in the region.
- The project will provide means and measures to improve production through improving on-farm feeding and feed management thus increasing the opportunity for small farmers to reduce vulnerability.



## Project Framework: Outcome

- The primary outcome of the project will be an improvement in the quality, supply, and use of aquafeeds in the Philippines with particular reference to the aquaculture of milkfish and Nile tilapia.
  - The introduction of better aquafeed manufacturing technologies and practices, and the provision of training and other capacity building measures for the farmers and small-scale feed producers/manufacturers will improve the aquafeed quality, supply and use in the country.
  - A concomitant improvement in feed standards, strengthening of regulatory and institutional oversight capacity, and the introduction of international best practice in aquafeed manufacturing will further promote the production of high quality and safe aquafeeds.
  - On-farm feed management will be improved through the introduction of better feeding practices and feed management strategies, resulting in improved feed efficiencies and economic returns to the farmers.



# Outputs

- The project comprises 4 outputs (altogether 27 activities) and is programmed to be implemented in 24 months at an estimated cost of US\$345,000 (FAO contribution).
- **Output 1:** Baseline information on feed ingredient supply and availability, nutritional requirements, feed formulation and type of feed use for Nile tilapia and milkfish farms in the Philippines are collected (five activities).
- **Output 2:** High quality and cost-effective feed formulations for different life stages (fry, fingerlings and on-grower) of Nile tilapia and milkfish and improved capacities for small- to medium scale feed manufactures to produce safe and appropriate semi-commercial and commercial aquafeeds are developed (seven activities).



# Outputs

- **Output 3:** Good on-farm feeding practices and feed management strategies are developed/optimized and government extension workers and farmers are trained (five activities).
- **Output 4:** of National feed standards for tilapia and milkfish and appropriate institutional, policy and regulatory frameworks for aquafeed (including feed additives and quality standards) manufacturing, quality control and management are developed and promoted (five activities).



# Deliverables

- A baseline survey and review of feed ingredient supplies (imported/local) including their availability (seasonality), quality/composition, cost and distribution, current aquafeed production capacity, supply and demand, and policy dispensation (taxation, imports) in the Philippines.
- A database of available animal feed ingredients and their nutritional profiles.
- A review of the nutritional requirements / feed formulations used for different life stages (fry, fingerlings and on-grower) of Nile tilapia and milkfish.



## Deliverables



- A series of new cost-effective feed formulations based on locally available feed ingredients and binders. Formulations will be produced for all life stages of Nile tilapia and milkfish.
- A protocol to undertake the on-farm trials to test the new aquafeed formulations, and to improve on-farm feed management practices.
- A report detailing the on-farm efficacy of the new cost-effective aquafeeds.





- A review of current aquafeed manufacturing practices used by small to medium-scale aquafeed manufacturers.
- A report describing Better Management Practice guidelines/training manuals for aquafeed manufacturing, feed formulation, and on-farm feed management practices.

# Deliverables



- Review the quality standards for aquafeeds including the current legislative, policy and management dispensation for animal/aquafeed manufacturing in the country.
- A revision of the policy and regulatory frameworks for aquafeed manufacturing, clarification of institutional mandates, roles and responsibilities, and compilation of a set of standards for aquafeeds that can be adopted by the Bureau of Agriculture and Fisheries Product Standards (BAFPS).

# Thank you

