Disease diagnostics / Analytical services

SEAFDEC/AQD offers disease diagnostic services with viral, bacterial, and parasitic diseases determined by PCR. Also available are electron microscopy imaging (TEM and SEM), and chemical and microbiological analyses of: (1) feeds, feed ingredients, experimental animals; (2) water; (3) soil; (4) food products and water. Complete services are as follows:

Molecular Microbiology Laboratory
- detection of shrimp and fish viruses by PCR-based techniques
- electron microscopy of biological samples (scanning and transmission)
- microbiological analyses of food, products, water, etc. (coliform count, *Salmonella*, *Shigella, S. aureus*, *Escherichia coli*, yeast/mold count, water potability)

Algal Production Laboratory
- optimize use of algae for industrial and medical applications

Centralized Analytical Laboratory
- analyses of chemicals in fisheries and aquaculture products
- analyses of water and soil
- proximate analyses
- fatty acid / amino acid profile

Fish Feed Technology Laboratory
- development of environment-friendly feeds
- improvement of feed conversion and growth of farmed species

Electron Microscopy Laboratory
- analyses using transmission and scanning electron microscopy

Plankton starters available for sale

- Green algae (*Tetraselmis tetrahele*, *Chlorella* sp., *Nanochlorum* sp.)
- Brown algae (*Chaetoceros calcitrans*, *Skeletonema tropicum*,*Thalassiosira* sp., *Navicula* sp., *Amphora* sp.)
- Golden brown algae (*Isochrysis galbana*)
- Zooplankton (*Brachionus plicatilis*)

Production of low-cost and high-quality diets

AQD's pilot feed mill can produce 300 kg of feeds per hour for its verification and extension studies. AQD aims to develop low-cost and high-quality feeds including formulated diets for grow-out and broodstock. Studies on alternative feed ingredients are being conducted including the use of agricultural by-products and wastes, leaf meals, and distillery wastes.

Training courses

AQD offers regular and special training courses which comprise 20% lecture and 80% practicals. Medium of instruction is English. AQD also accepts internships and on-the-job trainings for college and high school students which are readily arranged for individuals or small groups.

Sharing of knowledge and strengthening of skills on the latest aquaculture technologies especially in shrimp and marine fish are being offered at AQD through its manpower development program. This training aims to enable participants to become better aquaculture operators and managers.

Bookstore

AQD publishes aquaculture materials which are descriptive of its science-based technologies. Manuals, monographs, flyers, textbooks, among others, are available for sale at the AQD Bookstore.

Library

AQD Library has one of the best collections of books, journals, and other materials on aquaculture in Southeast Asia. The library is open Mondays to Fridays, from 8 am to 5 pm. Internet access is provided for free to students and AQD trainees.

FishWorld

FishWorld is a museum-aquarium-visitor center that promotes informal education for responsible aquaculture in particular, biodiversity, environment protection and sustainable development in general.

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The Southeast Asian Fisheries Development Center (SEAFDEC) is an autonomous intergovernmental body established as a regional treaty organization in December 1967 to promote fisheries development in the region through research, training and information services. Its member countries include Brunei Darussalam, Cambodia, Indonesia, Japan, Lao PDR, Malaysia, Myanmar, Philippines, Singapore, Thailand, and Viet Nam.

The Aquaculture Department (AQD), one of SEAFDEC's four departments, is mandated to implement programs in research, technology verification and demonstration, and training and information dissemination in order to promote responsible aquaculture in Southeast Asia.

For further information

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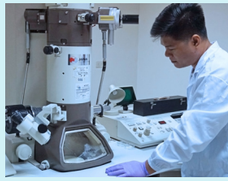
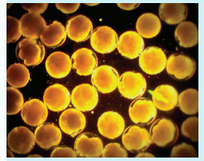
Southeast Asian Fisheries Development Center
AQUACULTURE DEPARTMENT
www.seafdec.org.ph

Tigbauan Main Station





Established in 1973, the Tigbauan Main Station (TMS) is the SEAFDEC/ AQD headquarters located on the south coast of Panay Island. The 40-hectare complex includes various research laboratories, hatcheries, and broodstock facilities for experiments in artificial propagation, feed development, and health management. TMS also has training facilities, a library, and medical clinic. On-campus housing and cafeteria cater to resident staff, trainees, guests, and visiting researchers and their families.

Research & development

Research is done on all life stages (broodstock, hatchery nursery, and grow-out) of the species listed below. Likewise, AQD produces juveniles for aquatic resource enhancement. Studies on nutrition and feed development, fish health management, ecology and farming systems, economic viability of cultured commodities and the promotion of sustainable aquaculture technologies are also being done to ensure comprehensive and holistic development of aquaculture and enhance its role in securing food and livelihoods in fishing communities.

The economically important commodities being studied at AQD include:

- Abalone
- Bighead carp
- Catfish
- Freshwater prawn
- Grouper
- Mangrove crab
- Milkfish
- Oyster
- Pompano
- Sandfish
- Seabass
- Seahorses
- Seaweeds
- Siganid
- Silver therapon
- Snapper
- Tiger shrimp
- Tilapia
- White shrimp




Products and services

Technical assistance / consultancy

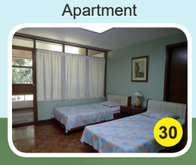
AQD provides technical assistance and consultancy in hatchery, netcage or fish farm operation for entrepreneurs and communities through its extension programs such as the Institutional Capacity Development for Sustainable Aquaculture (ICDSA).

Hatchery fry / Seedstocks

TMS has hatchery facilities for milkfish, high value marine fishes, abalone, mangrove crab, shrimp, sea cucumber, and tilapia.

TMS has a total production capacity of 300 tons for larval rearing of marine and freshwater fishes and 4.2 tons for abalone juveniles. AQD demonstrates and continues to assess the viability of its technologies through production runs.

Facilities



Multi-species marine fish hatchery

Natural food laboratory

Sandfish hatchery

Abalone hatchery

Mangrove crab hatchery

Feed Mill

Integrated fish broodstock and hatchery complex

Biosecure Shrimp Hatchery Complex