01 SEAFDEC/AQD Publications

Brochures and flyers

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# Oplan balik sugpo: Production of high quality postlarvae

Aquaculture Department, Southeast Asian Fisheries Development Center

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# What are high quality PL?

Disease-free shrimp postlarvae with the following characteristics:



No deformities



Responsive to stimuli Actively swimming and feeding

CC Oplan Balik Sugpo hopes to help revive the tiger shrimp industry in the Philippines through the production of high quality PL from the hatchery and implementation of environment-friendly strategies for grow-out culture in ponds.



SEAFDEC Aquaculture Department (SEAFDEC/AQD) was established in 1973 to conduct research, develop technologies, disseminate information, and train people in the farming of fishes, crustaceans, mollusks, and seaweeds for food, livelihood, equity, and sustainable development.

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Production of High Quality Postlarvae

## Spawning/Broodstock Facility



An area where spawners are acclimatized, spawned, and sampled for pathogen detection. In SEAFDEC/AQD, the broodstock facility is separated from the biosecure hatchery complex; ensuring that if ever the procured wild spawners are positive with OIE-listed shrimp pathogens, it will not contaminate the larvae in the hatchery.

## **Biosecure Hatchery Facility**



Biosecure hatchery complex at SEAFDEC/AQD:

- Disinfection/Shower Room
- Power House
- Larval Rearing Facility (module 1)
- Seawater Reservoir
- G Filtration System with UV Sterilizer Facility

**(6)** Natural Food Laboratory

Office and Technician's Quarters

- Larval Rearing Facility (module 2)
- 😢 Wastewater Treatment Facility

## **Processing of Spawners**

**Acclimation and examination** 

**Checking of gonadal maturity** 

Spawning

Sampling of Spent Spawner for PCR Analyses

Egg washing using UV-sterilized water

Positive for Shrimp Pathogens Disinfect & discard spawner and nauplii Negative for Shrimp Pathogens Stock in Iarval rearing tanks

"Oplan Balik Sugpo - Reviving the tiger shrimp industry through science and technology"

# Larval Rearing of High Quality PL



#### Feeding

Artificial diet
Natural food (diatom, Artemia)
Egg yolk plus vitamins



## Sampling & Monitoring

Bacterial analyses of water and fry Twice a week

PCR Analyses of fry samples For PL 5, PL 10, and PL 15



### Water Management

- Cleaning of drainer
- Regular siphoning of sediments at the tank bottom
- Wiping of air lines



- Harvest before the stocks reach PL 20
- Stock in ponds

Photos courtesy of NG Failaman, JT Genilza, YT Tabigo-on & ST Seposo