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Oplan balik sugpo: Production of high quality postlarvae

Aquaculture Department, Southeast Asian Fisheries Development Center

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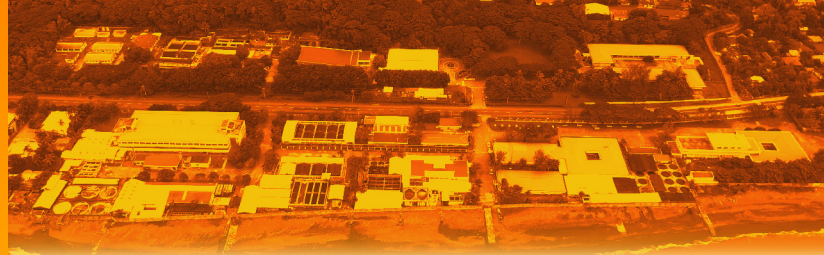
What are high quality PL?

Disease-free shrimp postlarvae with the following characteristics:

- ✓ Full gut
- ✓ No deformities
- ✓ Responsive to stimuli
- ✓ Actively swimming and feeding



 **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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OPLAN BALIK SUGPO

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.

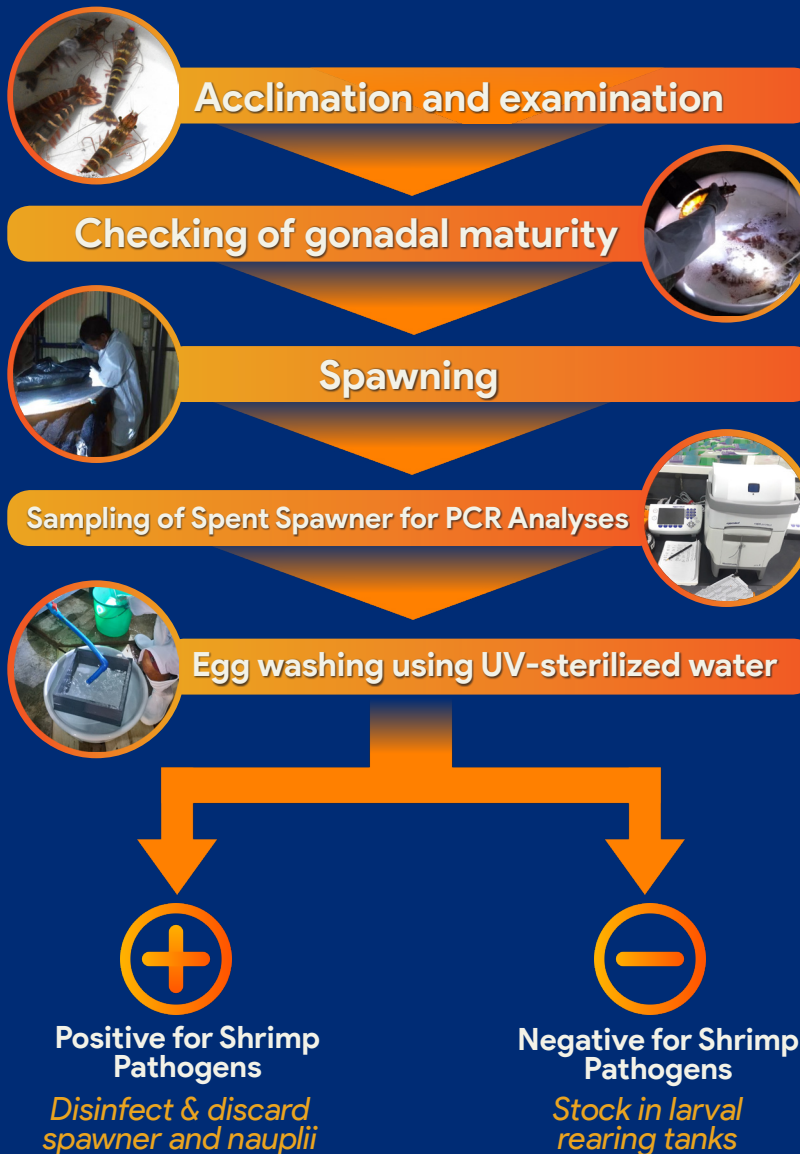
Biosecure Hatchery Facility



Biosecure hatchery complex at SEAFDEC/AQD:

- | | |
|-------------------------------------------------|--------------------------------------|
| ① Disinfection/Shower Room | ⑥ Natural Food Laboratory |
| ② Power House | ⑦ Office and Technician's Quarters |
| ③ Larval Rearing Facility (module 1) | ⑧ Larval Rearing Facility (module 2) |
| ④ Seawater Reservoir | ⑨ Wastewater Treatment Facility |
| ⑤ Filtration System with UV Sterilizer Facility | |

Processing of Spawners



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

Harvesting

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

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