

Concept Note
WORKSHOP ON MARINE AQUACULTURE AND FISH HEALTH MANAGEMENT
2017

Held by the Government of Indonesia

1. Background

Global demand for seafood is now greater than the capacity of the sea to supply it. An expanding global population and the increasing people's purchasing power are pressuring fishermen to fish more and causing some species to be overfished. As wild stocks decline, the demand for farmed fish is on the rise. Therefore, due to its sheer size and its impacts on the oceans, the aquaculture industry is an important part of the overall picture.

One of the fish species which has been successfully farmed is grouper. It has become one of the most important aquaculture and one of the most traded commodities in Asia. Considered as high-value species with high potential in contributing to the economic development of these Asian countries, groupers are also important in the livelihoods of small and large-scale coastal fish farmers.

The potential for development of marine aquaculture in Indonesia is vast since two-thirds of its area is marine waters. Groupers are commonly cultured in Indonesia. Groupers from Indonesia are mostly exported to Hong Kong, Malaysia, Singapore, Vietnam, China, Taiwan, Japan, South Korea, Thailand, the Philippines, USA, Australia, and France. Ministry of Marine Affairs and Fisheries of Indonesia has a production target of 67,100 ton in the year 2019.

One of the problems faced in achieving the target of production is the outbreak of disease. The common grouper disease may cause poor growth, lower yield, higher mortality rate, and even total loss in case of disease outbreaks.

Some infectious diseases commonly attack the grouper are a group of viral (Viral encephalopathy and retionopathy, Grouper iridoviral disease), bacterial (Fin rot/*Flexibacter maritimus*, Ulcerative disease, Gill rot), Mycotic/fungal (Ichthyosporidiosis), Parasitic (Cryptocarionasis, Oodiniasis, Skin fluke, Gill fluke, Caligosis, Trichodiniasis) and sea lice in Situbondo (2011) and Bali (2016).

The increase reliance on seafood and the challenges in sustaining fish health in aquaculture environment makes it important to ensure that aspects of fish production and fish health are adequately addressed.

In this regard, the Government of Indonesia will hold a workshop on Marine Aquaculture and Fish Health Management in Situbondo, Indonesia, on 21 – 28 November 2017. The workshop will invite experts in grouper breeding and health, to share knowledge among IORA member states.

2. Objectives

Participants will take part in a series of discussion and knowledge-sharing sessions on brood stock management, seed production process and harvesting, preventive and curative disease control as well as field trip and laboratory work.

The objectives of the workshop are as follows:

1. Sharing of knowledge on seed production and fish health management among experts from IORA member countries
2. Promoting sharing of information and best practices on seed production of groupers and fish health management among IORA member countries
3. Advancing technology and skills transfer on seed production of groupers and fish health management among IORA member countries
4. Developing and strengthening scientific, academic and technical cooperation through networking.
5. Capacity building of human resources, as aqua-culturist and laboratory operator, by increasing knowledge and skills.

3. Outcomes

The outcome of this program is to enhance capacities of IORA member states for sustainable fisheries cooperation through exchange of knowledge, technical know-how and best practice in fish health management, and seed production process.

4. Qualification of participants

Qualifications of the participants are:

1. Mid-level technical officer with relevant background, experience, and expertise / in charge of fisheries;
2. Nominated by their respective government;
3. Committed to disseminate learning from the program with peers and stakeholders;
4. Have a good command of spoken and written English; and
5. In good health, both physically and mentally, in order to follow the complete course of the program. Pregnant women are not recommended to attend the workshop.

Contact Details:

**Directorate of Asia-Pacific and African Intra and Inter-regional Cooperation
Ministry of Foreign Affairs of the Republic of Indonesia**

Phone : +6221 3811083

Fax : +6221 3844867

Email : iora.indonesia@kemlu.go.id (please also cc to indonesia.iora@gmail.com)

Attn: Mr. Muhammad Hartantyo / Ms. Adlina Fauziah