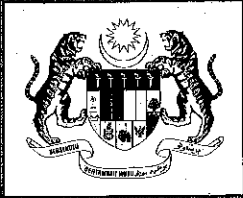


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MALAYSIAN STANDARD

GOOD AQUACULTURE PRACTICE (GAqP) – AQUACULTURE FARM – GENERAL GUIDELINES

ICS: 65.150

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Committee representation

The Agricultural Industry Standards Committee (ISC A) under whose authority this Malaysian Standard was developed, comprises representatives from the following organisations:

Cameron Highland Flower Growers Association
Department of Agriculture
Department of Fisheries Malaysia
Department of Standards Malaysia
EPA Management Sdn Bhd
Farmers Organization Authority
Federal Agricultural Marketing Authority
Federation of Livestock Farmers Association
Johor Fish Breeders Association
Malaysian Agricultural Research and Development Institute
Malaysian Agrifood Corporation
Malaysian Association of Standards Users
Malaysian Fruit Exporters Association
Malaysian Palm Oil Association
Malaysian Rubber Board
Ministry of Agriculture and Agro-based Industry
Ministry of International Trade and Industry
Ministry of Plantation Industries and Commodities
Ministry of Science, Technology and Innovation
Rubber Industry for Smallholders Development Authority
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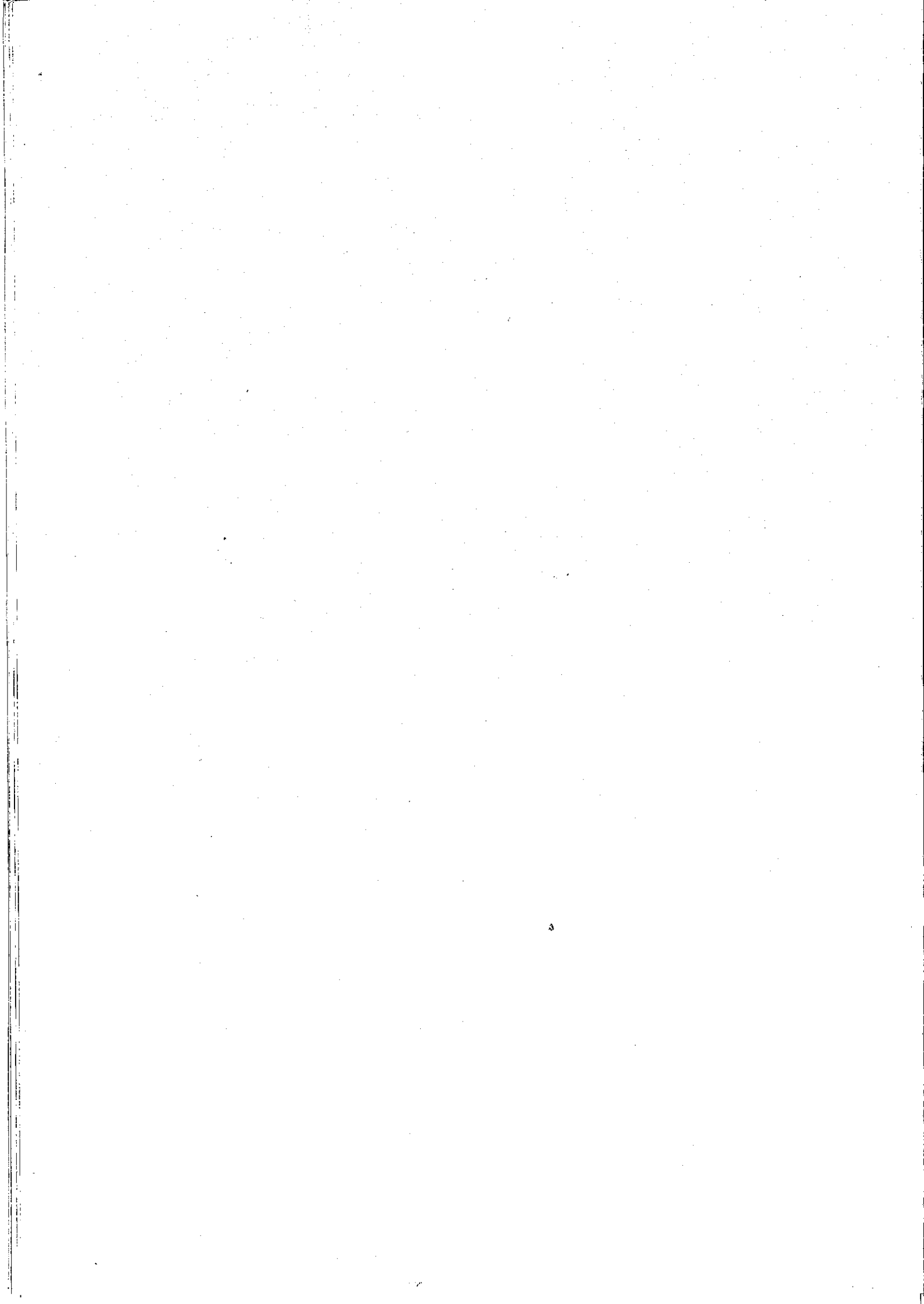
The Working Group on Good Aquaculture Practice which developed this Malaysian Standard consists of representatives from the following organisations:

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Asia Aquaculture (M) Sdn Bhd
Department of Fisheries Malaysia
Department of Marine Fisheries Sarawak
Golden Hope Plantations Berhad
Lembaga Kemajuan Ikan Malaysia
Lembaga Kemajuan Terengganu Tengah
Ministry of Health Malaysia
Persatuan Akuakultur Sarawak
Pusat Penyelidikan Perikanan Air Tawar, Gelami Lemi
SIRIM Berhad (Secretariat)
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Universiti Putra Malaysia

FOREWORD

This Malaysian Standard was developed by the Working Group on Good Aquaculture Practice under the authority of the Industry Standards Committee on Agriculture.

Compliance with a Malaysian Standard does not of itself confer immunity from legal obligations.



GOOD AQUACULTURE PRACTICE (GAqP) – AQUACULTURE FARM – GENERAL GUIDELINES

1. Scope

This Malaysian Standard prescribes general guidelines for aquaculture farm producers to promote Good Aquaculture Practice (GAqP) for sustainable fish production that is environmentally sound, socially acceptable and economically viable to ensure quality produce that is safe and suitable for utilisation and/or human consumption.

2. Normative references

The following normative references are indispensable for the application of this standard. For dated references, only the edition cited applies. For undated references, the latest edition of the normative references (including any amendments) applies.

Skim Pensijilan Ladang Akuakultur Malaysia (SPLAM)

Malaysian Food Act 1983 and Malaysian Food Regulations 1985

3. Definitions

For the purposes of this standard, the following definitions apply.

3.1 Aquaculture

Propagation of any aquatic organism including fish, molluscs, crustaceans and aquatic plants which the whole or part of the aquatic organism life cycle can be intervened or manipulated to enhance production, such as stocking, feeding, protection from predators, etc.

3.2 Aquaculture farm

Any establishment, structure or facility employed in aquaculture which includes bottom, cage, hanging-net, pen, pond, pole or stick, tank, raceway, raft and rope cultures.

3.3 Aquaculture Industrial Zone (AIZ)

An area designated for the development of aquaculture and its related activities.

3.4 Fish

Any aquatic animal or plant life, sedentary or non-sedentary, including all species of finfish, crustaceans, molluscs and aquatic mammals.

3.5 Feeding practice

A specific feeding method applied to ensure a good performance of the cultured organisms.

3.6 Aquaculture site

The site which is suitable for aquaculture activities.

3.7 SPLAM (*Skim Pensijilan Ladang Akuakultur Malaysia*)

A voluntary Malaysian aquaculture farm certification scheme with the purpose to encourage good aquaculture practice.

4. Minimum requirements

4.1 Site selection

4.1.1 The site for aquaculture should be approved by the relevant authorities and should minimise conflicts of land and water use.

4.1.2 It should be suitable for species, culture system and where sources of pollution can be controlled.

4.1.3 Farmers are encouraged to select areas in the Aquaculture Industrial Zone (AIZ).

4.1.4 The selection of site shall be operated in an environmentally acceptable way and shall take into consideration the preservation of natural habitat.

4.2 Construction

4.2.1 The farm design and lay-out shall be done in accordance with the requirements as recommended by the relevant authorities.

4.2.2 The clearing of site shall consider conservation/preservation of natural habitat.

4.2.3 All materials used shall be environmental friendly.

4.3 Culture practice

4.3.1 Farm preparation

The fertilisers and chemicals used shall be in accordance with the aquaculture practice as advised by the relevant authorities.

4.3.2 Seed

Farmers should use good quality, healthy and certified seeds.

4.3.3 Feed

4.3.3.1 The feed used shall be:

- a) free from antibiotics;
- b) free from banned substances; and

c) made from *Halal* ingredients.

4.3.3.2 The feed usage shall have minimal impact on the environment.

4.3.3.3 The feeding practice should follow the requirements recommended by the relevant authorities and/or the feed manufacturers.

4.3.4 Water management

4.3.4.1 The quality of the water for the culture should be maintained at optimal conditions that ensures good growth and health of the species cultured.

4.3.4.2 The water quality should be monitored throughout the culture period.

4.3.4.3 Effluent from the aquaculture farm shall not be discharged into the public or municipal water body without undergoing proper treatment.

4.3.4.4 The use of approved probiotics may be employed to improve the water quality.

4.3.5 Harvesting and post-harvest handling

4.3.5.1 Harvesting and post-harvest handling should ensure the food safety of aquaculture products and promote efforts which maintain product quality and improve their value.

4.3.5.2 Appropriate harvesting techniques should be applied to minimise quality defects.

4.3.5.3 Fish should be transported without undue delay.

4.3.6 Disease control

4.3.6.1 Culture environment should be conducive to minimise stress on the fish under culture.

4.3.6.2 On occurrence or an outbreak of any disease of any cultured fish, the farmers shall notify and seek advice from the relevant authorities at the soonest possible.

4.3.6.3 The use of any prohibited antibiotics, chemicals and banned substances for disease treatment shall not be done.

4.3.6.4 Disposal of infected fish shall be done in a sanitary manner to avoid cross-contamination.

4.3.6.5 Farmers are encouraged to provide physical bio-security measures (e.g. traps, fencing, bird nets, etc.) which are effective to prevent any disease outbreak.

4.3.6.6 Sanitary facilities shall be provided that allows for disinfection at the entry/exit point of the aquaculture farm including the cleaning and sanitisation of the vehicles used for the transportation of the produce.

4.4 Trans-boundary of fish

4.4.1 Farmers should conserve genetic diversity and maintain integrity of aquatic communities and ecosystems by appropriate management.

4.4.2 Efforts shall be undertaken to prevent the harmful effects of introducing alien species including pathogens or genetically modified stocks used for aquaculture, including culture-based fisheries into public waters.

4.4.3 Culturing, breeding, keeping, selling or using of any genetically modified fish (GMO) or non-indigenous fish species in an aquaculture premise shall not be done without written approval from the relevant authorities.

4.5 Farm workers

Workers directly involved in production/farm level should be in good health condition and receive basic training in hygiene requirements.

4.6 Traceability

The produce shall be traceable to the farm where it has been originally produced.

4.6.1 Record keeping

4.6.1.1 All records shall be maintained on the quantities and origin of all inputs (including species or strains), harvests and sales, other operational data, financial data and visitors.

4.6.1.2 Record keeping system shall be established, up-to-date, accessible and audited.

4.6.2 Internal audit

4.6.2.1 Internal audit shall be carried out at least once a year based on the requirements of this standard.

4.6.2.2 Corrective actions shall be implemented and documented.

4.7 Social responsibilities

4.7.1 Safety

4.7.1.1 First aid boxes shall be available at permanent sites on the farm.

4.7.1.2 Hazards should be clearly identified by warning signs where appropriate.

4.7.1.3 Accident and emergency procedures shall be made available and displayed appropriately.

4.7.2 Welfare

Employment conditions shall comply with local and national legislations.

4.7.3 Training

Workers should be trained with the latest technologies in farm practices to promote modernisation and ensure sustainable operation.

5. Food safety

The produce shall comply with the relevant food safety requirements as specified in the *Malaysian Food Act 1983 and the Malaysian Food Regulations 1985*.

6. Legal requirements

All activities and produce shall in other aspects comply with the requirements of the legislations currently in force in Malaysia.

7. Compliance

For produce deemed to conform to this standard, it shall comply with Clause 4 of this standard. This shall be verified through inspection when deemed necessary by the competent authority.

8. Certification mark

Each product may, by arrangement with a recognised certification body, be marked with the certification mark of the body, provided the product conforms to the requirements of this standard.

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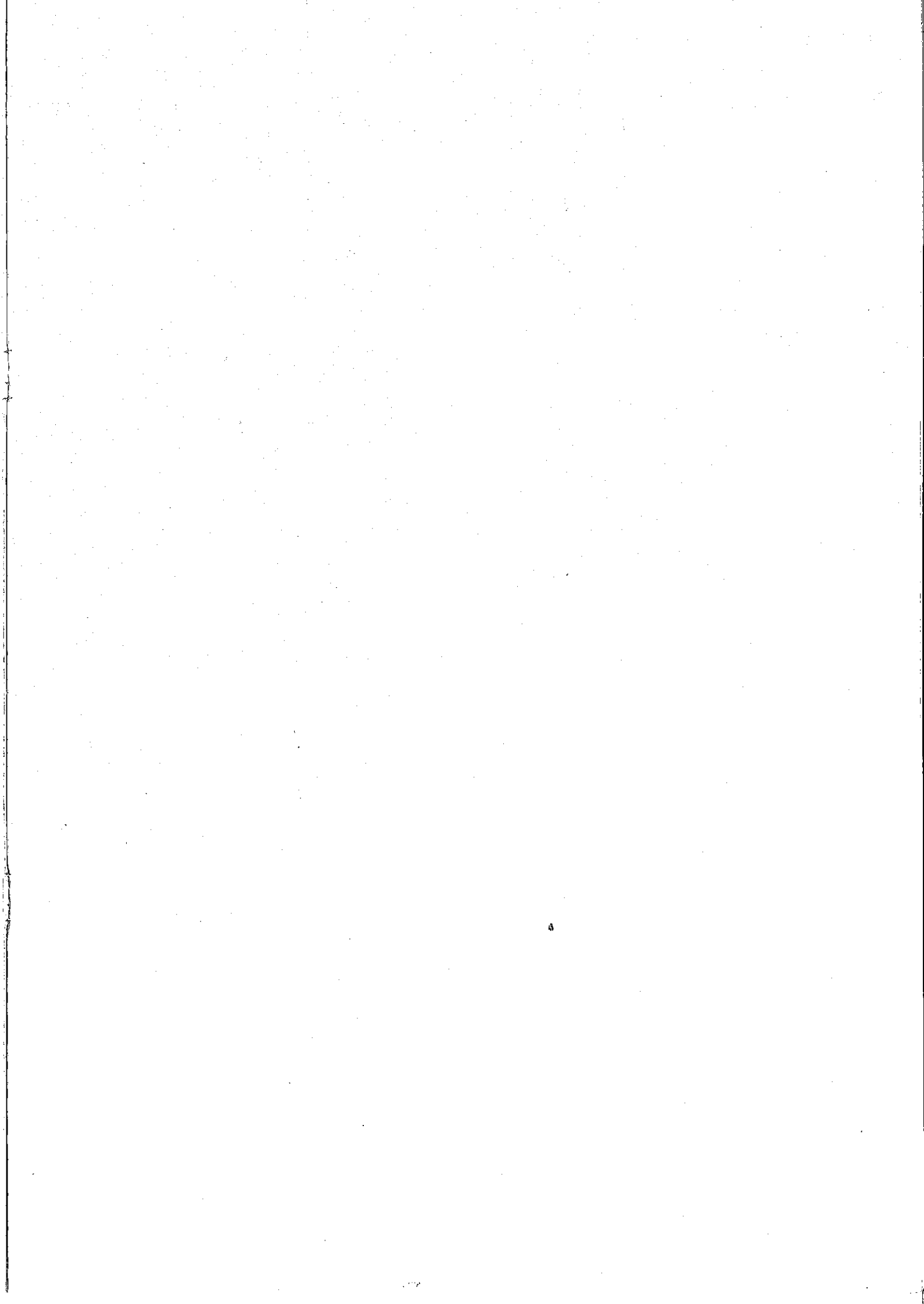
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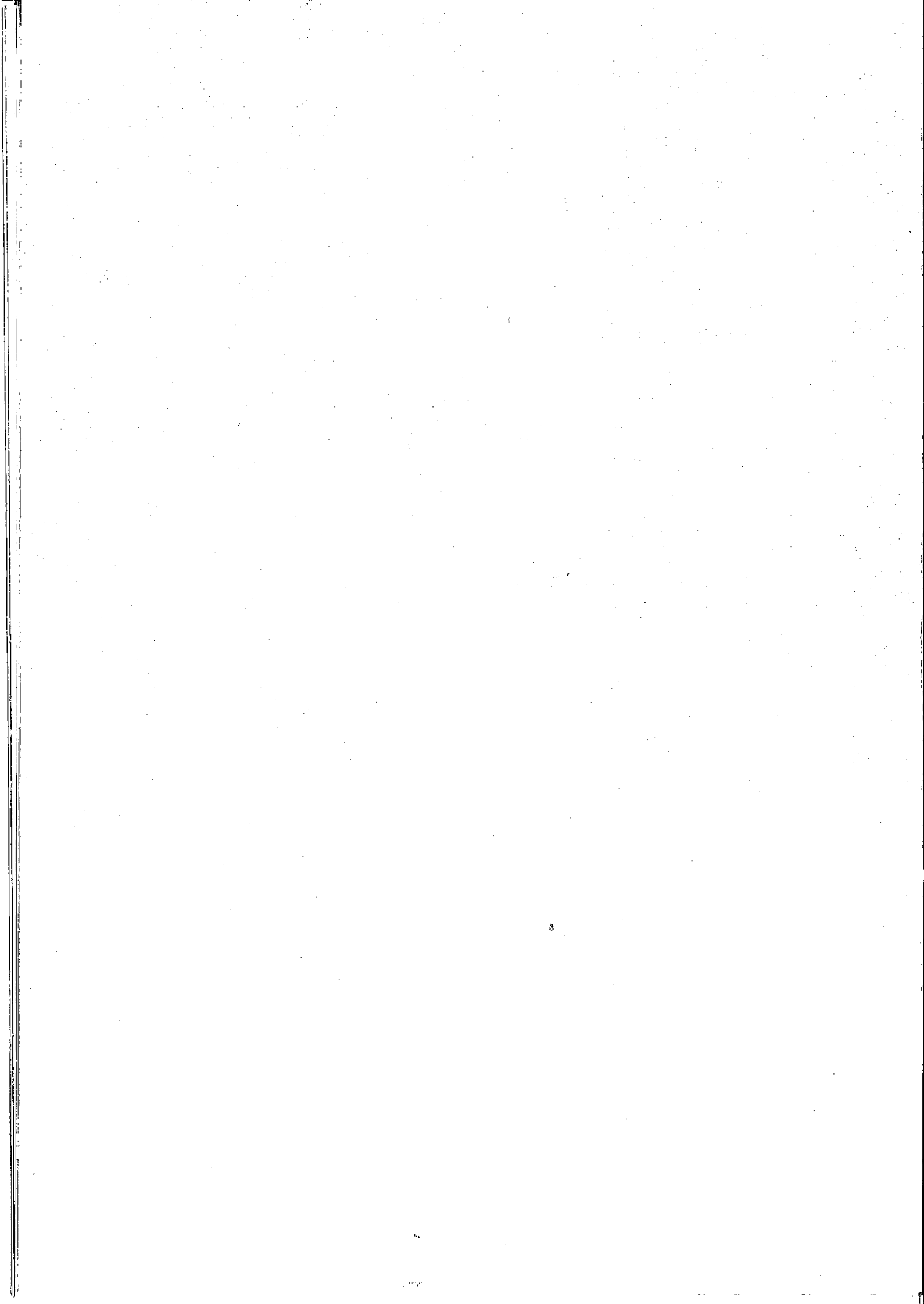
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The Sarawak Inland Fisheries Rules, 1985

Southeast Asian Fisheries Development Center (SEAFDEC), *Regional Guidelines for Responsible Aquaculture in Southeast Asia*





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