

GUIDANCE FOR THE OPERATION AND MAINTANCE OF POND IRRIGATION NETWORK

(Regulation of the Minister of Public Works

Number 16/PRT/M/2011 dated November 14, 2011)

BY GRACE OF GOD THE ALMIGHTY
THE MINISTER OF PUBLIC WORKS OF
THE REPUBLIC OF INDONESIA

Considering:

That in the framework of preserving the sustainable function of pond irrigation network in accordance with the planned service and the provision of Article 43 paragraph (5) of Government Regulation Number 42 Year 2008 on Water Resource Management as well as Article 61 of Government Regulation Number 20 Year 2006 on Irrigation, it's necessary to stipulate a regulation of the Minister of Public Works on Guidance for the Operation and Maintenance of Pond Irrigation Network;

In view of:

1. Government Regulation Number 27 Year 1991 on Swamp (Statute Book of the Republic of Indonesia Year 1991 Number 35, Supplement to Statute Book of the Republic of Indonesia Number 3441);
2. Government Regulation Number 20 Year 2006 on Irrigation (Statute Book of the Republic of Indonesia Year 2006 Number 46, Supplement to Statute Book of the Republic of Indonesia Number 4624);
3. Government Regulation Number 38 Year 2007 on Sharing of Public Administration Affairs between the Government, Provincial Administration and Regency/Municipal Administration (Statute Book of the Republic of Indonesia Year 2007 Number 82, Supplement to Statute Book of the Republic of Indonesia Number 3747);
4. Government Regulation Number 42 Year 2008 on Water Resource Management (Statute Book of the Republic of Indonesia Year 2008 Number 82, Supplement to Statute Book of the Republic of Indonesia Number 4858);
5. Presidential Regulation Number 47 Year 2009 on the Establishment and Organization of State Ministries;
6. Presidential Regulation Number 24 Year 2010 on Status, Task and Function of State Ministries as well as First-Echelon Organization, Task and Function of State Ministries;
7. Presidential Decree Number 84/P Year 2009;
8. Regulation of the Minister of Public Works Nomor. 08/PRT/M/2010 on Organization and Working Arrangement of the Ministry of Public Works;
9. Regulation of the Minister of Public Works Number 21/PRT/M/2010 on Organization and Working Mechanim of Technical Executive Unit of the Ministry of Public Works;

DECIDES :

To stipulate:

THE REGULATION OF THE MINISTER OF PUBLIC WORKS ON GUIDANCE FOR THE OPERATION AND MAINTENANCE OF POND IRRIGATION NETWORK

Article 1

Referred to in this ministerial regulation as:

1. Salty Water shall be water with salinity higher than briny water $\geq 35\%$.
2. Briny Water shall be water with salinity ranging from 0.5% to 35%, attributable to mixture of sea water and fresh water naturally or artificially.
3. Fresh water shall be water with salinity lower or being 0.5%.
4. Irrigation shall be efforts to provide, regulate and dispose irrigation water to support agriculture with the kind covering surface irrigation, swamp irrigation, underground water irrigation, pump irrigation and pond irrigation.
5. Pond shall be briny water basin used for onshore fishery cultivation, in the form of shrimp, fish, crab, moluscs and seaweed.
6. Pond Irrigation Network shall be a channel, structure or complementary structure constituting a totality, which is needed to provide, distribute, grant, use and dispose pond irrigation water.
7. Modest Irrigation Network of Pond shall be an irrigation network of pond with channel and door functioning to carry and dispose briny water unseparately, which causes salty water to mix naturally with fresh water with the water volume and quality not yet controlled.
8. Semi-technical irrigation network of pond shall be an irrigation network of pond with channel and door functioning to carry and dispose briny water separately, which causes salty water to mix naturally with fresh water in the mixer channel, furnished with non-permanent water structure, with the water debit and quality not yet controlled fully.
9. Technical Irrigation Network of Pond shall be an irrigation network of pond with the channel and door functioning to carry and dispose briny water already separated, furnished with mixer structure functioning as the mixing place of salty water and fresh water, with water structure already complete and permanent as well as fully controllable water debit and quality.
10. Waste shall be rest of production process or domestic activities in the form of liquid, gas or solid.
11. Operation of Pond Irrigation Network shall be efforts to regulate pond irrigation water and disposal thereof with a view of optimizing the function and benefit of pond irrigation network.
12. Pond Irrigation Network shall be efforts to preserve and secure pond irrigation network so as to continue functioning properly with a view of facilitating the implementation of operation and preserving its conservation.
13. Coast shall be an area where sea and mainland meets, measured upon the highest and lowest tide.
14. Caren shall be edge side around the internal part

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- of pond base with the base deeper than square functioning to facilitate harvest.
15. Square shall be part of pond base surrounded by caren, having base higher than the base of caren, which function to grow natural feed.
 16. Management of Pond Irrigation Network shall be an activity covering operation, maintenance and rehabilitation of pond irrigation network.
 17. Cultivating Cluster shall be a cluster inside the fattening cluster of milkfish parent stock (nener) or shrimp parent stock (benur) with the size $1/4$ up to $1/3$ time the size of the fattening cluster, which functions to breed milkfish parent stock (nener) or shrimp parent stock (benur) until the size of milkfish parent stock reaches 5 cm - 7 cm and size of shrimp parent stock (benur) reaches PL 40-70.
 18. Salinity shall be the quantity of salt substance in an unit of weight, contained in every unit of weight of water.
 19. Salty Water Feeder Channel shall be a channel functioning to flow salty water from sea or intake structure into mixer structure or directly to pond cluster.
 20. Freshwater Feeder Channel shall be a channel used to distribute freshwater from river or freshwater intake structure to mixer structure or directly to pond cluster.
 21. Pond Drainage shall be the distribution of water excess not used anymore from pond irrigation network.
 22. Cultivation shall be an activity to reproduce, fatten, maintain and harvest result.
 23. Planting Method shall be a business carried out by executing pond cultivation on the basis of a specified period.
 24. Minister shall be the minister in charge of public works affairs.
 25. Central Government hereinafter called Government shall be the President of the Republic of Indonesia holding the executive power of the Republic of Indonesia as meant in the Constitution of 1945.
 26. Provincial Government shall be governor and regional provincial apparatuses as component of regional administrator.
 27. Regency/Municipal Government shall be regent/mayor and other regency/municipal apparatuses as component of regional administrator.
 28. Service shall be an institution of provincial government or regency/municipal government in charge of irrigation affairs.
 29. Breeders shall be a group of communities engaging in fishery breeding, already or not yet grouping in breeder organization.

Article 2

- (1) The guidance shall be intended to become guidance of the government, provincial government and regency/municipal government in formulating Manual of Pond-Irrigation Network Operation and Maintenance.
- (2) The manual as meant in paragraph (1) shall aim at enabling the government, provincial government and regency/municipal governments to operate and maintain pond irrigation network efficiently

and effectively as well as the sustainability of function of pond.

Article 3

The scope of the guidance shall cover:

- a. operation;
- b. maintenance;
- c. public participation;
- d. monitoring and evaluation of maintenance and operation;
- e. institution and organization of operation and maintenance executor; and
- f. financing of operation and maintenance.

Article 4

- (1) The operation as meant in Article 3 Letter a, shall be intended to regulate water in pond irrigation network in accordance with the operational plan agreed by the government, provincial government and rency/municipal government and breeder group.
- (2) In planning the operation, management of pond irrigation network shall need to observe planting method plan, kind and level of high and low tide, rain fall, and condition of pond infrastructure.
- (3) The operation as meant in paragraph (1) shall be executed by procedures:
 - a. normal operation based on the agreed operation plan; and
 - b. emergency operation in the case of flooding, drought and water pollution or the high increase in salt content.

Article 5

- (1) The maintenance as meant in Article 3 Letter b shall be directed to guarantee the sustainability of function of pond irrigation network in accordance with the planned service period.
- (2) The maintenance as meant in paragraph (1) shall cover routine maintenance, periodical maintenance and participatory emergency improvement.
- (3) The routine maintenance as meant in paragraph (2) shall be executed continually.
- (4) The periodical maintenance as meant in paragraph (2) shall be executed every two years at the minimum or depend on structure and channel condition.
- (5) The emergency improvement as meant in paragraph (2) shall be executed because of incidents beyond prediction, including natural disaster.
- (6) The maintenance as meant in Article 3 Letter b may be executed on the basis of self-managed manner or contractually on the basis of kind of work, volume, time, manpower, material, equipment and quality of work and/or executed participatorily by pond planter group.

Article 6

- (1) Operation and maintenance of pond irrigation network shall be executed by the government, provincial government, rency/municipal government by virtue of their authority in the management of pond irrigation area.
- (2) In executing the operation and maintenance of pond irrigation network, the government, provincial government and rency/municipal govern-

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ment shall involve public participation.

Article 7

- (1) The implementation of operation as meant in Article 3 Letter d shall be monitored to ascertain efficiency and effectiveness of the operation of pond irrigation network.
- (2) The monitoring of operation as meant in paragraph (1) shall be applied to condition of water face in channel or river, channel side, water quality, rainfall, kind and growth of cultivation and production.
- (3) The monitoring of maintenance as meant in Article 3 Letter d shall be applied to routine maintenance, periodical maintenance and emergency improvement executed in self-managed manner or contractually.
- (4) Evaluation shall be applied to result of the monitoring of operation and maintenance as meant in paragraph (2) and paragraph (3).
- (5) Result of the evaluation as meant in paragraph (4) shall be used as input in formulating the next operation and maintenance plan.

Article 8

- (1) The institution and organization of the operation and maintenance executor as meant in Article 3 Letter e, shall constitute executor of pond-irrigation network operation and maintenance in observer and watering officer level.
- (2) The organizational structure of the institution as meant in paragraph (1) shall consist of:
 - a. watering observer;

- b. watering officer;
- c. technical staff;
- d. administrative staff; and
- e. water gate officer.

Article 9

- (1) The financing of operation and maintenance as meant in Article 3 Letter f shall be based on the actual need of operation and maintenance (AKNOP).
- (2) The financing as meant in paragraph (1) shall consist of:
 - a. operational cost; and
 - b. maintenance cost.

Article 10

- (1) The operation and maintenance of pond irrigation network shall be executed on the basis of manual of pond-irrigation network operation and maintenance already stipulated.
- (2) If the manual of pond-irrigation-network operation and maintenance has not been stipulated, the operation and maintenance of pond irrigation network shall be executed in accordance with the provision in the attachment to this ministerial regulation, which constitutes an integral part of this regulation.
- (3) The formulation of manual of operation and maintenance of the pond irrigation network shall refer to hierarchy of regulating substances in accordance with the function and task as contained in the attachment to this ministerial regulation, which constitutes an integral part of this regulation.

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Article 11

The regulation shall come into force as from the date of stipulation.

For public cognizance, the regulation shall be promulgated by placing it in State Gazette of the Republic of Indonesia.

Stipulated in Jakarta

On November 14, 2011

THE MINISTER OF PUBLIC WORKS OF THE REPUBLIC OF INDONESIA

sgd

DJOKO KIRMANTO

Promulgated in Jakarta

On November 23, 2011

THE MINISTER OF LAW AND HUMAN RIGHTS OF THE REPUBLIC OF INDONESIA

sgd

AMIR SYAMSUDDIN

STATE GAZETTE OF THE REPUBLIC OF INDONESIA
YEAR 2011 NUMBER 742

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