

Enhancing aquaculture production for food security and rural development through
better seed and feed production and management with special focus on Public-Private
Partnership (TCP/BGD/3501)

Project Inception Workshop

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PROJECT OBJECTIVES, OUTPUTS & DELIVERABLES

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Issues to be addressed



- technical issues of seed and feed quality,
- economic issues of technical and economic efficiency of seed and feed production, distribution and utilization, and
- social issues of farmers and empowerment of small-scale feed producers.



Issues to be addressed



- Environmental issues - the more efficient use of feed.
- Ecological issues - by the promotion of a systematic breeding programme that seeks to conserve indigenous native resources.
- Overall - by the development of policy that is informed by the results of the project.
- The ultimate social goal is food and nutrition security.



Project Framework: Impact



- Immediate: an effective regulatory and efficient management and support system for the aquaculture feed and seed sub-sectors.
- Long term impacts:
 - support the sustainable development and management of the aquaculture sector,
 - increased farm productivity and efficiency and better economic returns,
 - creation of alternate employment opportunities, and
 - contribution to the food security and welfare objectives of the country.



Project Framework: Outcome

- Primary outcomes:
 - a public-private partnership in aquaculture development,
 - increased capacities of farmers for aquaculture management and production,
 - a viable, sustainable and socially responsible seed and feed production and supply industry, and
 - an efficient and effective management and technical support system for seed and feed production, distribution and utilization.



Outputs

- The project comprises 12 outputs (41 activities) at a cost of US\$451,000 (FAO contribution). Duration: 24 months.
- **Output 1:** Improved broodbanking pilot project for Indian major carp species and Chinese carp species is set up in 4 selected government hatcheries (4 activities).
- **Output 2:** A pilot-scale selective breeding programme involving the cooperative arrangement among 5 government seed multiplication farms and 8 private hatcheries (3 activities).





- **Output 3:** A comprehensive long-term implementation plan of the selective breeding programme of Indian major and Chinese carps, Nile tilapia and striped catfish/Thai pangas (3 activities).
- **Output 4:** A set of implementing guidelines for the Fish Hatchery Act (3 activities).



- **Output 5:** Capacity of private hatchery for breeding and hatchery management and operation is upgraded through
 - preparation of an up-gradation plan of hatchery facility and development and promotion of Better Hatchery Management Practices (BHMP) guidelines/manuals;
 - development and promotion of the process of certification for hatchery operations;
 - Training of government and private hatchery technicians in Better Hatchery Management Practices (4 activities).
- **Output 6:** The formation of a national network of seed producers is initiated (4 activities).



- **Output 7:** Technical implementing guidelines for the Fish and Animal Feed Act (3 activities).
- **Output 8:** A pilot-scale feed quality analytical laboratory is established and feasibility study of a country-wide feed quality analytical service is completed and a proposal of setting up of a full-fledged laboratory is developed (3 activities).
- **Output 9:** Inventory of all feed additives being used and a study of their efficacy are completed and findings are disseminated (5 activities).



- **Output 10:** Capacity of small-scale feed producers is improved (3 activities).
- **Output 11:** The formation of a national association of feed producers is assisted (4 activities).
- **Output 12:** A study and proposal for credit facility for small-scale farmers, hatchery operators, and feed producers is developed (3 activities).

Deliverables

1. Establishment of improved broodbanking pilot project for Indian major and Chinese carps in four selected government hatcheries.
2. Development and initiation of a pilot-scale selective breeding programme involving the cooperative arrangement among government seed multiplication farms and private hatcheries.



Deliverables

3. Preparation of a comprehensive long-term implementation plan of the genetic broodstock management of Indian major and Chinese carps, Nile tilapia and striped catfish. This will include the development of the national action plan to support the implementation of the genetic broodstock management.
4. Development of implementation guidelines for the Fish Hatchery Act, 2011.



5. Capacity building of private hatchery for breeding and hatchery management and operation:

- preparation of an up-gradation plan of hatchery facility and
- development and promotion of Better Hatchery Management Practices guidelines/manuals;
- development and promotion of the process of certification for hatchery operations; and
- training of hatchery technicians in Better Hatchery Management Practices.



Deliverables



6. Initiation of and assistance to the formation of a national network of seed producers.
7. Development of implementation guidelines for the Fish and Animal Feed Act, 2010.
8. Establishment of a pilot-scale feed quality analytical laboratory.
9. A feasibility study of a country-wide feed quality analytical service and development of a proposal of setting up of a full-fledged laboratory.



10. Preparation of an inventory of feed additives including their efficacy and dissemination of these findings to the relevant stakeholders.
11. Improvement of capacity of small-scale feed producers through training on better farm-made feed production.





12. The formation of a national association of feed producers in collaboration with industrial feed sector, research institutions, relevant NGOs and Foundations, and other organizations.

13. Preparation of a study and proposal for credit facility for small-scale farmers, hatchery operators, and feed producers. This would include development of sample enterprise/business plans of hatchery operators and feed manufacturing enterprises and a loan application process based on the business and farm plans.

Thank you
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