

**GUIDELINES FOR DEVELOPMENT OF TANKS/PONDS FOR
INTENSIVE AQUACULTURE (IN BRACKISH WATER SECTOR)
UNDER RKVY**

Background:

Odisha is an important Coastal State of India having vast potential for development of fisheries and Aquaculture. The State Govt. in F & ARD Dept. have launched Odisha Fishery Policy, 2015 with an aim to double the fish production by 2020 by utilizing water bodies, waste land etc. under scientific fish farming.

The State is endowed with 4.18 Lakh Ha of potential brackish water area for fish and shrimp production. The shrimp culture practices and technology adopted in Odisha is much extensive and traditional and the production is entirely export oriented. The average productivity is 3.16 MT/Ha/Year in 2015-16.

Odisha has gained important status in context of seafood exports of the country in the last 3-4 years. The total quantity of marine products exported from Odisha during 2014-15 was about 34,767 MT valued at Rs.2069 Crores (equivalent to US \$350 Million). There is a growth of 12.26% in quantity and 14% in value in comparison with previous years. During 2015-16 the export was about 35630 MT.

Considering the limitation of infrastructure facility available in the brackish water clusters, the proposal has been made to go for stocking of 3.00 lakh PL per Ha. The productivity has been targeted as 6.00 MT/ Ha.

Present Shrimp production & Productivity:

The Brackish water shrimp and fish production from all sectors is in an increasing trend in recent years.

Species	Area Utilised(ha)	Production (Mt)	Productivity (Mt/ Ha /year)
Tiger shrimp (P.monodon)	4552	9191	2.01
White shrimp (L.vannamei)	4439	19241	4.33

(Source: Annual report MPEDA 2015-16)

In the Odisha Fisheries Policy, it is envisaged to increase the Shrimp yield to 10.00 MT/ha in intensive culture by horizontal and vertical expansion of aquaculture. Currently around 15300 Ha water area is under brackish water aquaculture in Odisha. The current proposal envisages gradual progress to achieve targeted rate of productivity.

Trends in Pond development in Odisha:

In order to achieve Rs 20,000 Cr. annual Sea Food Export there is need of vertical as well as horizontal expansion of culture. At present annually 500-600 Ha are brought into brackish water aquaculture.

There is enough scope to increase the area under culture. 24000 ha of Govt. land suitable for brackish water aquaculture are available in seven coastal Districts of Odisha. The Govt. has issued a farmer friendly Principles of Brackish water Land Leasing Policy of Govt. land. Under this guideline following groups have been formed. During selection we propose to give priority to 1st category Subgroup –A and subgroup B including other beneficiaries.

Aim & Objectives:

1. To increase the brackish water fish and shrimp production to meet the demand of the State.
2. To ensure income generation and employment through propagation of brackish water aquaculture in the State.
3. To facilitate, increase of Seafood Exports to 20,000 Cr. annually.

Strategy:

It is proposed to construct new pond and renovation covering an area of 200.00 ha area in the brackish water sector of Odisha. Site selection and identification of beneficiary at block level will be done by field level fishery officials. Cluster approach will be preferred for site selection to facilitate availability of post larvae for stocking and other supports.

The unit cost is Rs. 7.00 lakh/ Ha for construction of new pond including construction of sluice gates, civil works for water supply, aeration appliances, feed storing shed etc. and Rs. 3.00 lakh/ha for shrimp seed, feed, manure, disease prevention measures, transportation charges etc. Total cost of the project is Rs 10.00 lakh /ha. **One individual can be provided assistance for development of maximum 2.00 ha. The subsidy assistance is 50% of the unit cost with a ceiling of Rs.5.00 lakh per ha for excavation from RKVY.**

The plan and estimate for tank construction would be prepared by the District Fisheries Officer involving the Department Engineers basing on the

prevailing schedule of rate prescribed by the State Government. The input cost for excavation of new pond is enclosed in Table I.

Target beneficiaries:

All beneficiaries interested to take up Brackish water aquaculture will be selected for excavation of pond for brackish water aquaculture as per the Blue Revolution Guidelines issued by the GoI. Priority will be given to the A & B Sub Group of 1st Category of beneficiaries under Principles of Brackish water land lease Policy issued by Govt. of Odisha. However, the actual number of beneficiary will be determined upon implementation of the project as the ceiling of water area for subsidy admissible is 2.00 Ha.

The concerned District Fisheries Officer/ AFO of the Block / Officers from Zone/Directorate shall regularly supervise the work on physical progress such as Identification of land, Excavation of Pond, Progress of development of Infrastructure, Application of Inputs and report to the Director. The Additional Director and Joint Directors will also conduct sample test at regular intervals to maintain transparency of the programme. The shrimp farmers will be imparted training on sustainable brackish water shrimp culture.

Management:

The funds will be placed to concerned District Fisheries Officer depending upon the target for creation of new tank. After completion of the civil work for construction of tank and other infrastructures, the capital subsidy may be released. However the input subsidy will be released by the DFO on production of supporting vouchers towards seed (PL), feed, fertilizer, etc. The project will have funds provision for monitoring and supervision cost to maintain transparency during implementation of the programme. The back ended subsidy will be made available as per prevailing procedure of the Department.

Outcome:

1. Increase of water area available for intensive aquaculture
2. Additional increase in fish production @ 6 MT/ ha/annum.
3. Employment of youths.
4. This will also help in balancing the demand supply scenario of Export market in Odisha.

Evaluation

The project evaluation will be taken up by the agency engaged by the Govt. in Fisheries & ARD Department during implementation and on completion. The audit will be conducted by Internal Audit of Fisheries and ARD Department & Principal Accountant General (A&E), Odisha.
