

GUIDELINE OF VARIOUS STATE PLAN SCHEMES

A. Guidelines for development of Fresh water bodies for Employment Generation through SHG

1. **Location of the Project:** Thirteen districts viz. Barpeta, Bongaigaon, Cachar, Darrang, Goalpara, Golaghat, Jorhat, Karimganj, Sonitpur, Nalbari, Dhubri, Marigaon and Nagaon districts have been identified for the proposed project.
2. **Target Group:** The project is meant for self help groups in all the identified districts.
3. **Overall aim or Goal:** To improve socio-economic status self help groups through production of quality fish seed in the form of fry and fingerlings in the village and enhanced fish production through grow out carp culture practice and creation of self employment avenues.
4. **Monitoring and Evaluation:** A team of Senior Officers from the Directorate of Fisheries, Assam will be engaged to review progress of the development of the project including execution of civil works etc. technology adoption by the self help groups during the project period. Continuation of the culture practice and improved fish production in the post project period will be monitored. Group dynamics and cohesion among members of the self help groups will have to be ensured by the implementing officer. Besides, Zonal Deputy Directors shall be responsible for monitoring the project activities.
5. **Operational strategy and Selection Criteria:**
 - a. Assistance is given to short listed SHGs only for 1 year period along with technical backstopping.
 - b. For Nursery and Rearing activity each Groups shall be accommodated in 0.2 ha.
 - c. For Grow out activity each group shall be accommodated in minimum 0.60 ha.
 - d. Higher fish production leading to increase in income of the target group leading to employment.
 - e. Higher yield leading to the enhancement of seed and fish production in the identified area.
 - f. Higher level of adoption of scientific fish culture which will lead to enhanced fish production
 - g. The District Fishery Development Officer will be the implementation officer assisted by Fishery Extension Officer and Fishery Demonstrator at block level who will be responsible for short-listing beneficiary after physical and technical survey.
 - h. The finalization of beneficiary and selection of sites will be done from the inputs received from Panchayats based on physical survey made by FD, FEO and JE.
 - i. Junior Engineer in the Fishery Department of the respective district will prepare detailed engineering estimates for civil works and Sub Divisional Fishery Development Officer will do the biological part of estimate preparation.
 - j. Directorate of Fisheries, Guwahati will give the administrative approval for the civil works and inputs.
 - k. The money for the civil works will be disbursed to the SHG proportionate to the actual work done in the field to be assessed by field officers.
 - l. Input material will be disbursed to SHGs after procurement.
 - m. Training and capacity building within and outside the state and procurement of fishing nets will be done by Directorate of Fisheries, Assam. Guwahati.

6. Criteria for short listing the application:

- a. Condition of the water body, nature of weed infestation, silt to be removed with respect to the amount earmarked for reclamation.
- b. Educational qualification of the group preferably 10th Standard,
- c. Income level of the individuals of group preferably below Rs.22, 000/ Month.
- d. Social category like SC, ST etc.

The list of selected SHG to be sent to the Directorate of Fisheries, Assam along with estimate for civil works for obtaining administrative approval.

Under this scheme, each selected SHG shall receive Rs 1.54 Lakh/ Ha as Govt. assistance while beneficiary shall have to contribute Rs 0.17 Lakh/Ha for grow out Carp culture practices.

B. Guidelines for Pen Culture

1. Location of the Pen:

1. There should be standing water or slow flowing water for 6-8 months in the year.
2. The depth of the water should not be less than 1 m even during dry season and 1.5 to 2.5 m.
3. Choose a marginal area of the beel with a gentle slope and firm bottom
4. Choose 15cm dia. bamboo poles to support pen
5. Use split bamboo screen to cover the pen walls
6. Small mesh sized nets are to be used as lining materials to the pen to check the entry of the unwanted fish and escape of cultured fish.
7. Coir rope, synthetic twine to be used as fastening materials.

2. Preparation of the Pen:

1. Split bamboo into halves for making frames
2. Weave screen of split bamboo using coir rope on synthetic twine
3. In case of bamboo screen , poles are needed at 1 cm interval
4. Mark the place where the screen will be put using wooden stakes or bamboo poles and a piece of heavy line.
5. All the post must remain at least 50cm above the highest water level
6. Cut the length of the pole by considering the depth of water and portion, going under soil and 50 cm above water.
7. Make the frame by fixing the half spilt or full bamboo with the pole
8. When the screen is made of spilt bamboo, use coconut twine to fix with the pole. Be sure that mesh of the screen material is not more than 1×1 cm
9. Drive the bamboo screen into soil, tie the screen with poles and split bamboo frame.

3. Stocking Management:

1. Eradication of aquatic weed is must
2. Eradication of predatory fish is must
3. Liming and Supplementary feeding is essential
4. Quality of soil and water to be ensured
5. Species selection and ratio (surface : column: bottom :: 3:2:1) ; Stocking of 10,000/Ha fingerlings for culture period of 5-6 months starting from **December to May** in a 500 – 1000 m² rectangular pen size.

Under this scheme, Govt. shall extend a financial assistance of Rs. 2.77Lakh/Ha to selected Self Help Groups and the Groups shall contribute Rs.0.69Lakh/Ha as beneficiary share.

C. Development of Ornamental fish breeding unit through SHG

Ornamental fish breeding and rearing is an attractive and new activity available to fish farmers and traders in our country. However, the potentials are enormous considering the large number of species involved, the ever growing global trade and domestic demand.

The share of Assam and other north eastern state for ornamental fish is considerable, presently contributing about 85 % of the exports from Kolkata.

The proposed unit prefers on breeding and propagation as well as marketing of indigenous and exotic ornamental fish through the members of Self Help Groups in Kamrup District of Assam.

Each unit having three components – A. Breeding Unit
B. Rearing Unit
C. Transportation and Marketing Unit

A. Breeding Unit

Cost involvement for breeding Unit has two components:

1. Fixed Capital
2. Working capital

Fixed Capital

The fixed capital for ornamental fish breeding unit is as follows:

Sl	Item	Quantity	Rate (Rs)	Amount(Rs)
1	Cost of shed	200 sq ft	50/ sq ft	10,000
2	Ciment Cisterns	20,000 litres	1.75/ litre	35,000
3	Glass tank(3 feetX1.5 feet X 1.2 feet)	5	1000/no	5,000
4	Air pumps, tubings and fittings	L.S		2,000
5	Electrical fittings	L.S		2,000
6	Water filtration system	L.S		5,000
7	Miscellaneous			1,000
			Total	60,000

Working Capital

Sl	Item	Quantity	Rate(Rs)	Amount (Rs)
1	Purchase of brooders			
	Live bearers	300 females and 100 males	2.50 per piece	1000
	Egg layers	100 females and 100 males	5.00 per piece	1000
2	Purchase of indigenous orn. Fish	25,000 nos	1.00 per piece	25,000
3	Feed cost	200 kg	20 / Kg	4000
4	Packing and transport cost	LS		2,000
5	Power charges	LS		5,000
6	Miscellaneous exp.	LS		3,000
			Total	41,000

Rearing Unit

Rearing of Ornamental fish plays a very important role in the business of ornamental fish trading. Immediately after breeding, proper rearing of the fish spawn/ fry is essential for their survival

which will ensure the success in the business venture. The rearing unit will collect their requirements of fry from the breeding unit and reared them to reach the market size.

Cost involvement for rearing Unit

1. Purchasing of 2 FRP tanks 8 m X 4m X1.2 m @ Rs 2500/ tank	= Rs 5,000.00
2. Purchase of ornamental fish fry 10,000 nos @ Rs 30 / 100 nos	= Rs 3000.00
3. Feed for ornamental fish	= Rs 2,000.00
4. Medicine etc	= Rs. 5,00.00

Total Rs. 10,500.00

Transportation and marketing:

One of the major factors in ornamental fish trading is transportation. Since these fishes are very delicate they require extreme care and handling while transporting the same.

Cost involvement for transportation Unit:

1. Oxygen Cylinder (5 kg capacity)	= Rs. 6,000
2. Packing material and accessories	= Rs. 2,500
Total	= Rs. 8,500.

Total cost of the Unit = Rs. 1,01,000.00 + Rs. 10,500.00 + Rs 8,500.00
= Rs. 1,20,000.00

(Rupees one lakh twenty thousand only)

Party share 20% = Rs. 20,000.00

Assistance 80 % = Rs. 1,00,000.00

Each unit can engaged 10 (ten) unemployed youths covering the monthly income of Rs. 2,000 to 3,000 / month.

D. Guidelines for the Women Specific Scheme under Fish Seed Farming for fish seed raising in backyard pond

- I. The District Fishery Development Officer will be responsible for implementation of the project assisted by Fishery Extension Officer and Fishery Demonstrator at block level who will be responsible for short-listing beneficiary after physical and technical survey.
- II. The listing of beneficiary and selection of tentative sites will be done from the inputs received from Panchayats.
- III. Junior Engineer in the Fishery Department of the respective district will prepare detailed engineering estimates for civil works and Sub Divisional Fishery Development Officer will do the biological part of estimate preparation.
- IV. Director of Fisheries, Guwahati will give the administrative approval for the civil works.
- V. The money for the civil works will have to be disbursed to the beneficiary to the actual work done in the field to be assessed field officers.

- VI. Input materials within the stipulated amount apportioned per hectare area will be distributed after district level procurement including the CIFAX and Medicines
- VII. DFDO of the respective district will short list the applicant based on:
- Minimum Water area of the beneficiary should be 0.03 Ha
 - Condition of the water body, nature of weed infestation, silt to be removed with respect to the amount earmarked for reclamation.
 - Educational qualification of the beneficiary not below 7th Standard.
 - Preference to be given to widow, BPL family and SC and ST category.

The list of selected candidate will have to be sent to the Directorate of Fisheries, Assam along with estimate for civil works and inputs for obtaining administrative approval. Under this scheme, each beneficiary shall receive Rs 1.0Lakh/ Ha for reclamation of the existing tank.

E. Guidelines for renovation and construction of private nursery and rearing under Fish Seed

Farming:

The scheme is mainly aimed at producing quality fish seed in private sector under Govt. supervision.

1. Development cost for Nursery Tank is Rs. 1.00 Lakh/Ha. Under this component, Beneficiary shall have to contribute Rs 0.30 thousand/ Ha and Govt. shall contribute Rs. 0.70 Thousand/ Ha
2. Development cost for Rearing Tank is Rs. 1.3 Lakh/Ha. Under this component, Beneficiary shall have to contribute Rs. 0.42 Thousand/Ha and beneficiary shall contribute Rs.0.88 Thousand/ Ha

F. Reclamation of Derelict Water Bodies:

Under this scheme, the Department provides an assistance @ Rs. 1.00 Lakh/ Ha as cost of reclamation/ renovation of the derelict water body and Rs. 0.48/ Ha as cost of inputs like Lime, fish seed, cow dung during 1st Year. The community shall look after the management of derelict water bodies including harvesting and marketing of the fish constituting a local committee under the guidance of DFDO/SDFDO and FEO concern.

G. Development of Beel and Open water fishery:

Under this scheme, beel with an individual area of less than 10 Ha which remains uncared but having enough potential is developed for increasing fish productivity. The cost of reclamation is Rs. 1.00Lakh/Ha and the cost is invested for 1st Year an management of beels is handed over to the local community after development. The execution of civil works is done by the Department in consultation with the local people. Fish seed for the 1st year is provided and training is imparted under the scheme.