

1. Integrated Ornamental Fish Unit (Breeding and rearing for freshwater fish)

Culture of ornamental fish is one such diversification that involves the culture and propagation of fish and other aquatic organisms for its economic and aesthetic values. Considering the increased popularity of ornamental fish at household level, captive seed production and rearing technology of both domesticated exotic species and indigenous species have been standardized. The main advantages of ornamental fish culture are as follows-

- It is possible to do Ornamental fish culture in a much smaller space than normal food fish culture.
- It is possible to do Ornamental fish culture by investing much smaller capital than that of normal food fish culture.
- It is possible to do Ornamental fish culture using lesser manpower than normally required for food fish culture.
- The flexibility in the business of ornamental fish is enormous when compared with normal pisciculture. It may range from few thousand to multi million. In other word while discussing its scope one may say that starting from ground only sky is the limit.

Through this proposed project efforts will be initiated for rearing of native ornamental fish as well as exotic ornamental fish which is having good market demand in this region and which breeding technology has already been established in the agro-climatic condition of the State. Various Fisheries Research Institutes has already been demonstrated the breeding technology of these fish species in the farmers level and entrepreneurs are ready to establish the ornamental fish units, which a forward way for enhancing the ornamental fish production in the State. So, this pilot project will create a huge awareness among the different stakeholders specially the women/youth and their SHGs.

Name of Scheme

“Integrated Ornamental Fish Unit (breeding and rearing for fresh water fish)” -
Beneficiary Oriented - Enhancement of Production and Productivity Component

Name of the Component

Integrated Ornamental Fish Rearing Unit

Project Location

Different districts in the State of WB as detailed in Fund Requirement Table.

Objective

- To encourage the ornamental fish production sector on a large scale by setting up more production units
- To produce good quality ornamental fish seeds for development of internal markets

- To create more employment in the rural and sub urban areas of the state and for realization of foreign exchange for the country.
- To increase Export market by producing good quality indigenous as well as exotic varieties. To make use of modern technology and innovation to make ornamental fisheries a flourishing activity..
- To promote production of good quality ornamental fish including indigenous variety in the state
- To make use of modern technology and innovation to make ornamental fisheries a thriving activity

Targeted Species of the Project

Domesticated exotic species and indigenous species.

Expenditure on unit construction & inputs

The estimated project cost of “**Integrated Ornamental Fish Unit (breeding and rearing for fresh water fish)**” for one unit has been worked out as 25.0 lakh as per the Governmental guidelines.

Benefits from Implementation of Plan

- Anticipated outputs generated from this scheme:
- Additional production of ornamental fish of both indigenous and exotic varieties of commercial importance is produced in a year.
- Creation of more employment opportunities for women and youth in rural and semi urban areas and thereby increasing their socio-economic status.
- Increased export of freshwater ornamental fish from the state thereby increased foreign exchange for our country.

Implementation of Plan

The proposed scheme “Integrated Ornamental Fish Unit (breeding and rearing for fresh water fish)” is a beneficiary-oriented scheme. After the due approval of schemes by the Government, the schemes will be implemented through District Fisheries Officers by the beneficiary under the technical guidance of Block Fishery Extension Officers (FEO).

Government Assistance

The total admissible Government Share against the scheme will be limited to:

- 40% of the project cost for general category beneficiaries and
- 60% of the project cost for weaker sections like Scheduled Castes (SCs), Scheduled Tribes (STs) and women.

Beneficiary contribution can either be self-financed or bank loan or both.

Eligible Beneficiary

All Fishers, Fish farmers, Fish workers and Fish vendors, Fisheries Development corporations, Self Help Groups (SHGs)/Joint Liability Groups (JLGs) in fisheries sector,

Fisheries cooperatives, Entrepreneurs and private firms, Fish Farmers Producer Organizations/Companies (FFPO), SCs/STs/Women/Differently abled persons

Sources of Finance

The estimated project cost of *“Integrated Ornamental Fish Unit (breeding and rearing for fresh water fish)”* has been worked as 25.00 lakh per unit as per the Governmental guidelines.

Time line for Project Implementation

Activity	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR
Submitting DPR												
Approval of DPR												
Beneficiary selection and approval												
Purchase of unit												
Physical verification												
Release of subsidy												
Assessment and evaluation												

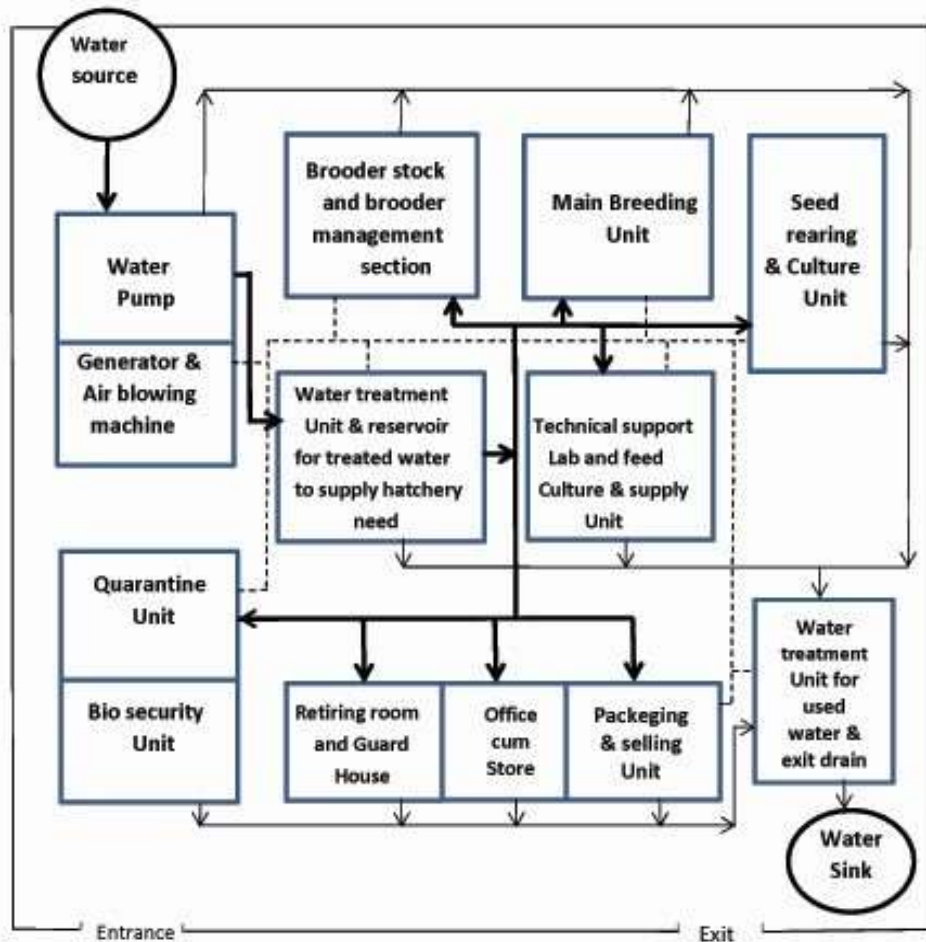
Scheme for "Integrated Ornamental fish unit (breeding and rearing for freshwater fish)"

Unit Area for Scheme: 500 sq.m.				
Details break up of Scheme:				
A) Capital Cost				
Sl No	Items of Expenditure	Quantity	Rate (in Rs)	Amount (Rs)
1	Tali / Fiber / Isreal net with thatch topping roof top supported by beams/ poles)- 500 sq mt or 5400sq ft	500	600.00	300000.00
2	Cement tank including reservoir and overhead tank (90000 Litre @ Rs.3.00/ Litre)	90000	3.00	270000.00
3	Glass tanks include the aquarium stand as well (66000 Litre @ Rs.6.50/ Litre)	66000	6.50	429000.00
4	Motors & Pump, Water line pipes, hose and its fittings, etc	(LS)		100000.00
5	Wiring Materials, Lightings and its fixtures, Power generator/ Inverter, deep freezer, A/C, hot air oven, Submersible electrical heaters, etc	(LS)		140000.00
6	Biological filters, Chemical and Physical filters	(LS)		100000.00
7	Only structure with cement, brick walls, asbestos/metal/RCC roofs for covering the aquariums and cement tanks excluding the overhead tanks are eligible	(LS)		500000.00

8	Oxygen cylinder, Regulators/Air blowers, Shade nets and Netting for tanks, Hand Nets, packing machine and microscope, pH meter, thermometer, refract meter, etc	(LS)		125000.00
Total				1964000.00
B) Recurring Cost				
Sl No	Items of Expenditure	Quantity	Rate (in Rs)	Amount (Rs)
1	Seed (Av size:1 cm)- a) Tetras, Cichlids viz- angel, etc: 48000 x 2 (two cycles). Stocking density 1 fish (2 cm) / 40 sq cm	96000	2.00	192000.00
2	Seed (Av size:1 cm)- b) Gold fish, Manila carp, etc 48000 (one cycles). Stocking density 1 fish (2 cm) / 40 sq cm	48000	1.00	48000.00
3	Cost of feed- live feed (tubifex worms, daphnia, etc.), dry feed and raw material for preparing artificial feed	(LS)		160000.00
4	Cost of replacement/ repair of operational articles viz, nets, filter, electrical material, lights, filter, aeration line, thermostat, bucket, pipes, pumps etc. and any miscellaneous un foreseen item that may be required during rearing period.	(LS)		80000.00
5	Kits for water testing, chemical, medicine for prophylaxis etc.	(LS)		16000.00
6	Fuel / electricity	(LS)		40000.00
Total				536000.00
GRAND TOTAL(A + B)				2500000.00
C) Economics:				
I	Expected Production: (3-6 cm fish with 80% survival rate): Tetras, Cichlids viz- angel, etc - 76800 Gold fish, Manila carp, etc - 38400			115200 Nos.
II	Income from Sale of Fish (Considering sale of fish @ Rs. 10.00/Nos.)			1152000.00
III	Net Profit [Income - Recurring cost] i.e. Rs. 1152000.00- Rs. 536000.00 = Rs.616000.00			616000.00
D) Funding pattern				
	Type of Beneficiary	Unit Cost (Rs.)	Govt. Assistance (both Central & State Govt.) (Rs.)	Beneficiary Contribution (Rs.)
	General Category	2500000.00	1000000.00	1500000.00
	SC/ ST/ Women	2500000.00	1500000.00	1000000.00

Note: The prices of the above-mentioned items are indicative only. The actual prices of the items may vary as per the local marketing conditions. The govt. subsidy will be given to a beneficiary with or without institutional finance. However, for subsidy calculation purposes the amount will be restricted as per the guideline of the Government

**SCHEMATIC DIAGRAM OF MODEL INTEGRATED ORNAMENTAL FISH UNIT
(BREEDING AND REARING FOR FRESHWATER FISH)**



Line Legend:

- Water line
- Drainage line
- Air line

Note: This is an indicative schematic drawing.

[Not to scale]