

## **2. Construction of New Rearing Ponds (nursery/ seed rearing ponds)**

With the introduction of new technologies in inland aquaculture sector entrepreneur and aqua farmers are in great demand of fish seeds of specific sizes and species throughout the year and use of production enhancing inputs for better fish seed growth, survival and profitability are receiving greater focus in the segment. The changed rainfall pattern, vagaries of nature negatively affecting availability of water for fisheries and aquaculture have necessitated for stocking advanced fingerlings to enhance better availability and reduce crop duration. Stocking of reservoirs and large perennial tanks also warrants fish seed of larger sizes.

Though West Bengal is receiving highest fish seed production award since last few years but growing domestic demand and dependency of the southern, central and NE states of India for supply of quality fish seed of specific size and species makes the state more responsible to continue its legacy. The state contributes 15.51 % (2nd) of inland fish production, and 38% (highest) of the fish seed production in the country. The state holds a total 4.25 lakh ha of impounded inland fishery resources, of which 81.2% (3.45 lakh ha) is presently utilized.

The state aims to meet out the local as well as the other states fish seed demand for increasing the inland fish production. Therefore, it is imperative to increase the inland fish seed rearing area to enhance quality fish seed production and intern increase the fish production.

- Under the proposal, various size of ponds ranging from 0.1hectare to 1 hectare (preferably) will be constructed based on the available area of the beneficiary which might be an owned or leased out land.

### **Technical Parameters**

- Various sizes of ponds ranging from 0.01 to 0.5 ha (Preferably) will be constructed under the proposal of construction of new rearing ponds based on the available area of the beneficiary which might be owned or leased out land.
- During the process of construction of ponds, proper care of slope, dyke compaction, in-let/out-let provision, height etc. will be taken care of. The rearing ponds will be mechanically constructed by use of JCB for maximum of 5 feet earth cutting.

### **Name of Scheme-**

**“Construction of New Rearing ponds (nursery/seed rearing ponds)”- Beneficiary Oriented Scheme - Enhancement of Production and Productivity Component**

### **Objective-**

- To ensure quality seed supply and availability of the seeds
- Enhance fish seed production & productivity to bridge the critical wide gap between

demands and supply of desired species

- Ensure the availability of Fish fingerling throughout the culture period Livelihood & Employment generation.
- Overall inclusive economic growth through sustainable and equitable development of fisheries resources with eco-friendly approach.

**Targeted Species of the Project:**

Domesticated exotic species and indigenous species.

**Eligible Beneficiary:**

All the applicants who have undisputed encroachment-free land (owned or registered leased land) with supporting legal documents, shall be eligible for the aforesaid scheme.

**Project Location**

Different districts in the State of WB.

**Justification of the Scheme:**

To fulfill the quality fish seed requirement of the growing aquaculture sector in the State and also for the country. This scheme will contribute in horizontal expansion of crop area which will lead to increased production of fish seed.

**Selection procedure of beneficiary:**

At the district level, the proposal placed before the DLC shall approve the list of screened beneficiaries.

**Implementation of Plan:**

The proposed “Construction of New Rearing ponds (nursery/seed rearing ponds)” 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).

**Benefits from Implementation of Plan:**

Following benefits after implementation of plan:

- Horizontal expansion of crop area.
- Increase in fry and fingerling production.
- Increased production & productivity of fish fingerling and fish.
- Increased per capita income.
- Generating employment, income and livelihood for rural & urban youth at large.

**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 “Construction of New Rearing ponds (nursery/seed rearing ponds)” has been worked as 7.00 lakh per unit as per Governmental guidelines.

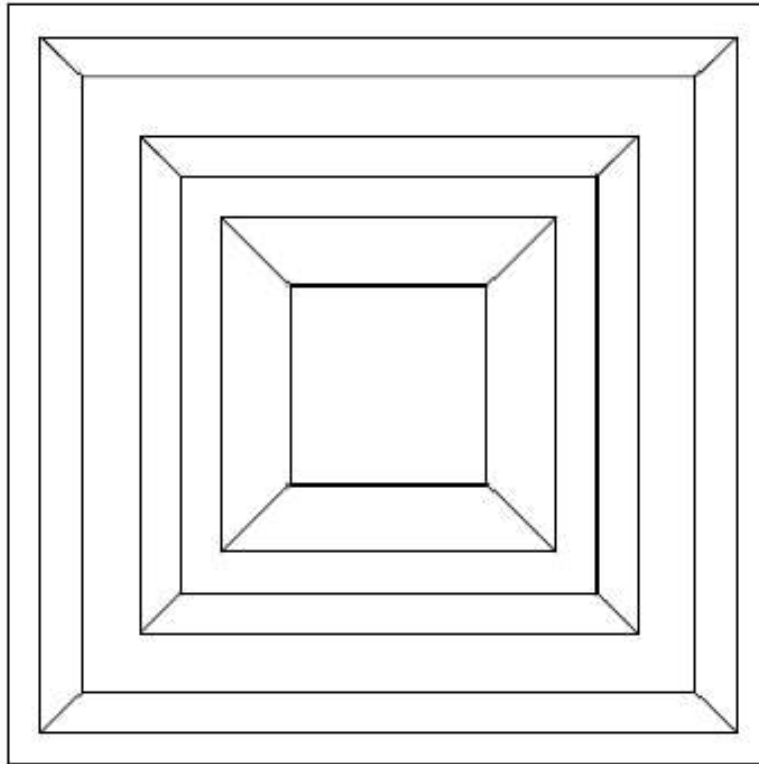
**Time line for Project Implementation**

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												

**Model Estimate for Construction of "One hectare New Rearing pond"**

Sl. No.	Description of Item	Qty	Unit	Rate	Amount
1	Excavation in ordinary soil / mixed soil i.e. clay mixed with moorum, kankar, pebbles/silt dry or moist / slushy silt/sticky soil for WDS / WHS / RESERVOIR / SFMIS etc with hydraulic excavator or any other means including cutting and loading in tippers, trimming bottom and sides slopes in accordance with requirements of lines, grades and cross section and transporting to embankment / disposal site with in all lifts and lead upto 1000m including spreading, levelling disposed spoils at disposed area. (mode of measurement : pre work and post work) 01x68 x 68 x 1.550 = 7167.20 Cum (Ref: WRIDD Schedule of rates corrigenda published on 04.08.2021)	7167.20	M3	85.00	609,212.00
2	Dressing and chilchalling flanks or slope of embankment including filling with earth or cutting upto 150 mm. average thickness and ramming properly after sprinkling water. (2x96x10.15)+(2x71x10.15) = 3390.1SqM	3390.10	SqM	12.20	41,359.22
3	Display board other expenditure		L.S.		9,000.00
Total estimated cost					= 659,571.22
ADD GST (5%) on estimated cost					= 32,978.56
Sub Total					= 692,549.78
ADD Labour Cess (1%) on sub total					= 6,925.50
Total including GST Cess and Contingency					= 699,475.28
Say					= 700,000.00
<p><b>Note: This is model estimate as per existing PWD schedule of rate. The estimate may vary depending upon the prevailing rate of PWD schedule as per change of District and the time of execution of work and. Considering these facts the estimate may be modified within the allotted amount.</b></p>					

## Design of Rearing Pond



PLAN (Not to scale)



C/S of Pond (Not to scale)