Fish Hatchery

Hatchery is a facility designed for fish breeding & incubation where fish eggs are incubated and hatched out in to hatchlings and reared up to spawn stage.

german cooperation







Components of a Hatchery System: 1. Broods stock pond | 2. Breeding tank | 3. Hatching/incubation tank | 4. Spawn receiving chamber 5. Conditioning tank | 6. Overhead water tank | 7. Packing & storage unit | 8. Power source with backup | 9. Security fencing with gate

Power Source & Backup:

- 1. Facilitate power source with backup for uninterrupted operation.
- 2. Cost (5HP generator): 0.3 lakh

Breeding Tank:

1. Breeding tank is fitted with overhead shower & 14-16 inclined water inlets on periphery to create water flow to create an artificial riverine condition for fish breeding 2. Concrete circular tank (RCC) of inner diameter 5.2 m with depth of

1.2 m at periphery sloping down to

3. Cost: 1.5 lakh

1.5 m at centre.

Packing & Storage Unit:

- 1. A room of 50 x 30 ft should be provided near the conditioning tank to store materials and packing the seed.
- 2. Cost (with 5HP pump): 1.5 lakh

Fencing & Gate

Provide fencing around the perimeter for security.

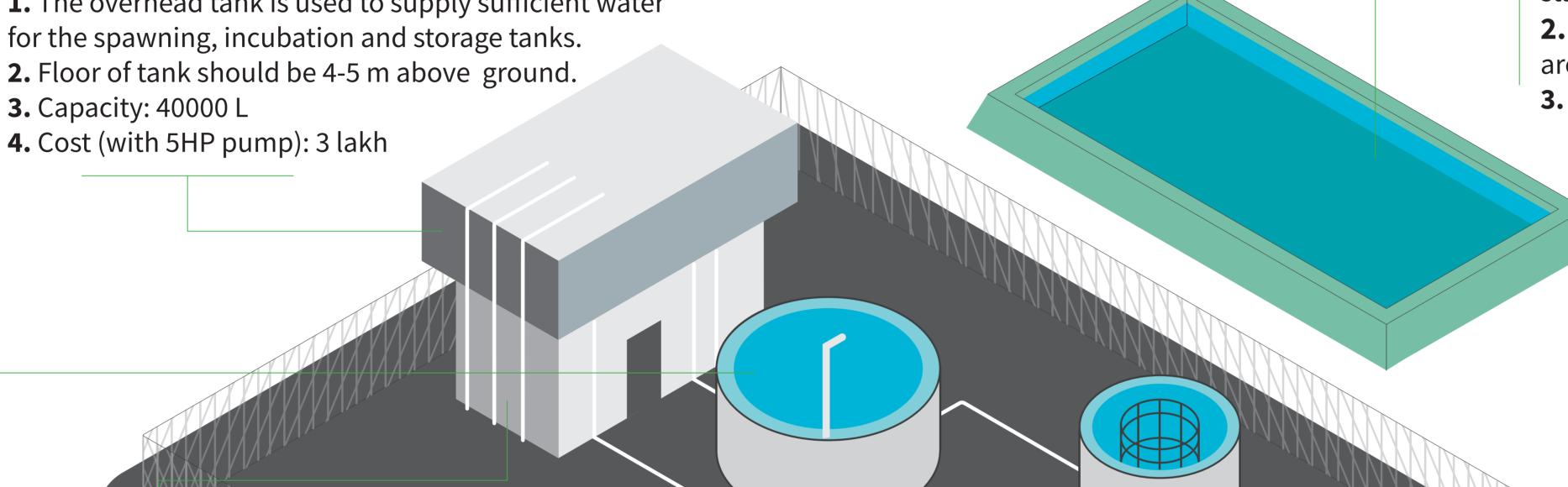
Conditioning/ Rearing Tank:

- 1. Concrete tank with water supply and hooks on the sides to tie hapa/net for spawn.
- 2. Spawns are kept here for conditioning before sending to packing & transportation.

Overhead Water Tank:

1. The overhead tank is used to supply sufficient water for the spawning, incubation and storage tanks.

4. Cost (with 5HP pump): 3 lakh



Note: This facility is for a unit with production capacity of 10 million fry

Brood Stock Pond:

- 1. Brood tanks are used for managing brood for about 4-5 months prior to Breeding by following standard operational procedure(SOP).
- 2. 2 earthen ponds of 100x40x2 m each [land area 1 ha].
- 3. Cost: 6 lakh.

Spawn Receiving Chamber/ Tank:

- 1. This is a rectangular masonry concrete tank connected to hatching tanks. Hooks are provided on opposite sides to fix hapa/ net for collecting spawns.
- 2. It is located at lower elevation than incubation tank to drain out water with gravity
- **3.** Cost: 0.5 lakh

Hatchery Unit

Hatching/Incubation Tank:

- 1. Fertilized eggs from breeding tank are transferred to hatching tanks for hatching
- 2. These are two layered circular concrete tanks with inlet and outlet and duck mouth openings at the pond bottom for water circulation.
- 3. The outer chamber is 3.6 m having an outer masonry / concrete wall with another circular wall with a fixed nylon screen is provided at 0.76 m clear distance from the outer wall.
- 4. Cost for 4 units: 1 lakh