

## **Farming of shing/magur in homestead pond**

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### **Background**

- Gained popularity as a food fish to Bangladeshi people from the time immemorial
- Can survive out of aquatic ecosystem for a long time
- Hardy species - ability to survive in an adverse environmental condition
- High medicinal value- often recommended for sick people
- Naturally abundant in past, population declining at present
- Breeding protocol developed- seeds are available
- Potential for aquaculture

### **Benefit of the technology:**

- a) Shorter culture period;
- b) Culture at high density in low space;
- c) Marketing at live condition;
- d) High market price;
- e) Increased income through women participation;
- f) Supply of nutrient rich food to the family members;
- g) Effective utilization of the homestead ponds;
- h) High profit margin; and
- i) Easy culture technology

### **Description of the technology**

#### *a) Pond selection*

- Comparatively smaller pond
- Suitable water depth of around 3 to 4 feet
- Entrance of sufficient sunlight into the pond

#### *b) Pond management*

- Remodeling of the embankment for keeping the pond flood free
- Staffing to protect soil erosion
- Removal of the aquatic weeds

- Removal of unwanted fishes and other animals through repeated netting
- Liming (1kg/decimal) for disinfecting the pond and water quality improvement; in addition to liming (2-3 kg/decimal), ash treatment (15 kg/decimal) is required in obtaining good result from ponds under *barind* area
- Enhancing natural feed production through inorganic fertilizer like urea and triple super phosphate (each @ 150g/decimal) after 5-7 days of liming

*c) Fish stocking*

Comparatively larger size carps are stocked with the seeds of magur for maintaining good water quality and overall fish production in homestead ponds as follows:

<b>Fish species</b>	<b>Stocking density (Individuals/decimal)</b>	<b>Stocking weight (g)</b>
Magur/Shing	300-600 or more	2-3
Catla	1	200
Silver carp	2	200
Rui	1	100

*d) Post stocking management*

- Fortnightly liming (200-250g/decimal);
- In addition to liming, ash treatment (10 kg/decimal/month) for ponds under *barind* area
- Supplementary feeding (35% protein content) @ 2-10% of fish body weight (twice daily, 50% at morning and 50% at afternoon)
- Use of both commercial (70%) and home- made (30%) feed under restricted feeding regime (feed restriction for 4 days per month) to reduce the feed wastage and thereby the feed cost

*e) Harvesting and production*

- Fishes can reach the harvestable size (shing of 80-90g; magur of 100-110g; catla of 800-1000g; silver carp of 1000-1300g; and rui of 600-800g) within 5-6 months
- Fish production can be obtained as 7000-9000 kg/ha/6 months (shing/magur as 6500-8500 kg and carp as around 500 kg) while stocking shing/magur @ 300-500 fishes/decimal

*f) Important considerations*

- Fencing the pond embankment with net (minimum height of 3 feet) to protect the fish escape during flood
- Avoid the excess use of lime, fertilizer and feed
- More emphasis on home-made feed application than that of commercial feed
- Since complete harvesting is often found difficult through repeated netting, drain out of water from the pond may be required
- Complete the harvesting before winter