



## Demonstration of brackishwater finfish farming in Gujarat – CIBA initiatives

**Asian seabass** (*Lates calcarifer*, locally known as “Bhetki”)

- Highly priced and relished food fish
- Cultured systems: marine cages, brackishwater and freshwater ponds
- Broodstock: Males 1.5 to 3.0 kg Females 3.5 to 4.0 kg
- CIBA technologies for Asian seabass farming
  - Nursery rearing
    - In hapa net cages (250-300 nos./m<sup>3</sup>)
    - Fed with formulated feed for 45-50 days
    - Price: ₹15-20/piece of 3 inch size
  - Pre-growout culture
    - Ponds/cages (80-100 nos./m<sup>3</sup>)
    - Reared for 2 months and reach 70-80g size
  - Growout farming
    - Culture period 6-8 months
    - Feeding: formulated feed (CP 45%)
    - Production 4 to 5 ton/ha, FCR of 1.6 -1.8



### Culture demonstration in Gujarat

- Onjal (Navsari Dist.), Laavacha, (Surat Dist.) and Palsana, (Valsad Dist.)
- Nursery rearing period 50 days
- Monetary benefit: Rs 50,000 to Rs 80,000

### Milkfish (*Chanos chanos*)

- Salinity 0 to 50 ppt
- Herbivorous
- Farming system: Brackishwater and freshwater ponds, pens and cages
- Extensive farming
  - Stocking 3000-4000 nos/ha
  - Feeding: Regular addition of organic and inorganic fertilizers improves the natural food density
  - Production: 2.0 ton/ha/year





- Intensive farming
  - Stocking: 15000 to 20000 nos./ha (size 100 – 200 cm)
  - Feeding: Pelleted feed @ 3-5% of body weight
  - Production: 5-10 ton/ha/year in intensive farming
- Market price: ₹ 150 to 200/kg

#### Culture demonstration in Gujarat

- Navsari, Surat
- Stocking: 0.5 to 1.0/m<sup>2</sup>
- Feeding: Lablab, rice bran 8-10% body weight for first 2 weeks, followed by pelleted feed
- Growth: 250-300 g in 6 months



#### Pearlspot (*Etroplus suratensis*, known as *Gulchi* in Gujarati)

- Salinity: 0 to 35 ppt
- Feeding: formulated pellet feed
- Culture system: ponds, tanks and cages
- Stocking: 20,000 to 30,000/ha
- Production: 200 g size in 8 months
- Price: ₹ 300/kg in Kerala
- Market size: 2000t/year in Kerala



#### Culture demonstration in Gujarat

- Danti, Navsari
- Stocking: 100 fingerling per floating cage (1 m<sup>3</sup>)
- Feeding: pelleted feed (CP 18%) @ 5% body weight



***“Brackishwater aquaculture for food, employment and prosperity”***

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