



Community and Family Farming Initiatives for Tribal and Aqua Farmers of Gujarat

Farming demonstrations

- Banana shrimp
- Milkfish
- Asian seabass

Community farming

- TSP activities in Kabilpore, Dharagiri, Valoti and Pathri (Navsari Dist.) and Navipardi, Varethi and Kanyashi (Surat Dist.)
- Polyculture demonstration in Navipardi, Surat
 - Milkfish and carp in ponds and seabass and pearlspot in cages
- Advantages
 - Utilization of available waterbodies
 - Alternative livelihood for additional income
- Income generated: Rs 75,000



Family farming

- Potential activities
 - Pearlspot farming
 - Nursery rearing of seabass in hapas
 - Mud crab fattening/culture
- Demonstrations in Gujarat
 - Onjal (Navsari Dist.) Laavacha (Surat Dist.) and Palsana (Valsad Dist.)

Demonstration of nursery rearing Asian seabass at Onjal

- Hapas, 15 nos. size 2x1x1m³
- Stocking: 1500/hapa (@ 750 nos/m²)
- Duration of nursery rearing: 45 days
- Feeding: Farm made ball shaped feed @ 8% of body weight
- Management: Grading once in 5 days and cleaning to avoid clogging of nets
- Survival: 45%
- Profit: Rs.10-20/piece, Rs. 50,000



Demonstration of seabass nursery rearing at Laavacha, Surat Dist.

- Stocking: 20,000 seed in 20 nylon net hapas (2x1x1m)
- Duration of nursery rearing: 45 days
- Feeding: Farm made ball shaped feed @ 8% of body weight
- Production: 5100 fingerlings (avg size 3.5-4.0 cm)
- Income generated: Rs.15/fingerlings and total income generated Rs.77,500/-



Demonstration of Asian seabass nursery rearing at Palsana, Valsad Dist.

- 10 hapas of the size of 2x1x1m (2m²) nylon nets with mesh size 1.5 mm
- Stocking: 1100/hapa (@ 550 nos/m²)
- Duration of nursery rearing: 45 days
- Feeding: Fish meal balls three times daily
- Income generated: Rs.15/piece earned Rs. 81900/-

Economics based on the demonstrations conducted at Gujarat

S.No.	Particulars	Amount (Rs.)
A. Operational Cost		
1	Cost of hapas (mosquito net, mesh size net, stitching chargers etc) (1 no.)	200.00*
2	Cost of poles (6 nos/hapa)	100.00**
3.	Cost of seabass seed (2cm size; 1500 nos.)	4500.00
4	Cost of farm made feed (Kg.)	250.00***
5	Labour cost	350.00****
6	Miscellaneous (fresh fish feed, plastic items, nylon rope, diesel chargers etc)	1000.00
	Total	6400.00
7	Interest for operational cost @12%	768.00
	Total cost	7168.00
B. Revenue		
	Revenue through sales of seabass seed (45% survival rate = 675 nos.; @Rs. 15/pc)	10125.00
	Net income (B-A) per hapa	2957.00
	Net income for 15 hapas	44355.00
	Total income for three crops per year	133065.00

Note: * Each cost is Rs. 1000/- it can be used for five crops. ** For each hapa 30 kg of poles required. It cost Rs. 500/- and can be used for five crops. *** Five kg farm mage feed is required to produce 500 fingerlings. Feed cost Rs.250@ Rs.50/kg. **** Daily 20 minutes labour required for each hapa and for 60 days 20 hours are required. It costs Rs. 350/-

Potential opportunities suitable for Gujarat

- Pearlsport in cages and ponds.
- Milkfish in ponds
- Seabass grow out culture in cages and ponds
- Nursery rearing of Seabass in hapas
- Polyculture of seabass and mud crab



“Brackishwater aquaculture for food, employment and prosperity”

© All rights reserved

ICAR-Central Institute of Brackishwater Aquaculture

75, Santhome High Road, R.A.Puram, Chennai-600 028

Phone:044-24610565, 24618817, 24616948, Telefax:044-24613818, 24610311

Email : director@ciba.res.in/itmu@ciba.res.in, Website:www.ciba.res.in

Follow us on :    /icarciba