

## *ICAR's Breakthrough in Fisheries*



A device for breeding and culturing marine fish in open sea:  
**Low Cost Open Sea Cage Farming**



**Indian Council of Agricultural Research, New Delhi**

*Agrisearch with a human touch*

# A device for breeding and culturing marine fish in open sea: Low Cost Open Sea Cage Farming

## Introduction

The open sea cages are used for cultivating marine fishes, and may be used in domestic and export oriented marine sea farming in cages. The present invention describes a low cost cage culture device for open sea fish farming in GI cage developed by Central Marine Fisheries Research Institute, Kochi.

## Advantages

Low cost cage of Rs 1 lakh including netting & mooring and a single crop can recover the investment of input cost. Make : Good quality 1.5" GI pipe (B Class), Joints double welded for extra strength, structure provided with epoxy primer & grey paint to prevent rusting. Additional floatation with fibre barrels of 200 litres filled with 30 lb air & inflated barrel provides stable platform for operations. Outer net at 60 cm above water level prevents predatory fish entry to middle space, Less Weight : 700 kg & can carry 20-25 persons at a time on the platform for managerial operations. Diameter 6 m, Height 120 cm & Depth 6 m.

## Financial aspects :

### Indicative Economics

Total investment = 5.89 lakhs

Rate of return = 69.78 %

Profitability % = 88.58 %

Market potential = 2000 crores/year

**Services offered as a part of technology transfer :** On-site demonstration of finfish and shellfish culture in open sea

## Contact

**Zonal Technology Management –  
Business Planning & Development Unit, South Zone**

**Indian Council of Agricultural Research**

CIFT Junction, Willington Island  
Matsyapuri P.O. Cochin – 682029, Kerala  
Phone: 0484-2666843, Fax: 0484-2668483  
Email: ciftbpdu@gmail.com