

## Serially Horizontal Collapsible Trap (5 Chambers)

In order to increase the catch efficiency, the two chamber horizontal collapsible trap was modified in to a five chamber collapsible trap. Serially foldable traps can be operated horizontally in shallow water bodies. It can also be operated vertically in deeper water bodies. It is made of 12mm PVC pipe joint with T shaped PVC, each chamber is 25 x 17 inches in dimension. The mouth is funnel shaped with diameter of 7.8 inches with a length of 8.6 inches. There are 2 mouths in each chamber alternately cut open made of rigid nylon webbing. Each chamber is covered with 25mm nylon netting.



## Collapsible Foldable Traps

ICAR-CIFT has designed and fabricated a foldable trap to exploit fishery resources in inland waters. The foldable trap was designed with four rectangular shaped plastic coated galvanized-iron (GI) square mesh of 25 mm mesh size to a frame made of 6 mm GI rod. These four rectangular pieces are fixed with clamps and are arranged in a box shape and tied with HDPE twine. The dimensions of the trap are 1 x 0.5 x 0.4 m. An iron mesh piece of 0.5 x 0.4 m is carved into funnel shape and tied in front as entrance. Other end of the frame is having 0.5 m length and fitted with 25 mm mesh HDPE webbing. Foldable traps are fabricated with three types of entrance shapes. Circular shaped entrance made with HDPE 15 mm mesh give better catch than V shaped and oval shaped. The weight of the collapsible trap is 2.5 kg. The diameter of the foldable trap is 6 cm.

Prepared by

**Mr. G. Kamei, Dr. U. Sreedhar,  
Dr. R. Raghu Prakash. Dr. Sullip K Majhi**

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ICAR-Central Institute of Fisheries Technology  
CIFT-Junction, Matsyapuri P.O., Kochi-682029

For more information, please contact

**Scientist-in-Charge**

Visakhapatnam Research Centre  
ICAR-Central Institute of Fisheries Technology (ICAR-CIFT)  
(Indian Council of Agricultural Research)  
Ocean View Layout, Pandurangapuram, Andhra University P.O.,  
Visakhapatnam - 530 003  
Ph : 0891-2567856, Fax : 0891-2567040  
Email: ciftvizag@gmail.com

[www.cift.res.in](http://www.cift.res.in)

## TRAPS FOR RESPONSIBLE FISHING IN INLAND AND MARINE WATERS



**ICAR-CENTRAL INSTITUTE OF  
FISHERIES TECHNOLOGY,**

Visakhapatnam-530 003,  
Andhra Pradesh

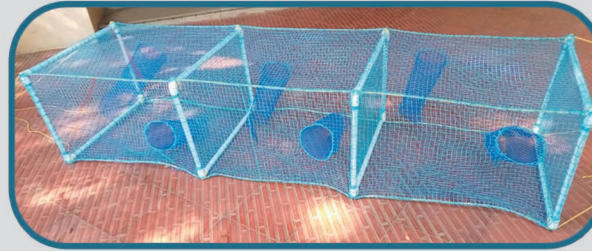
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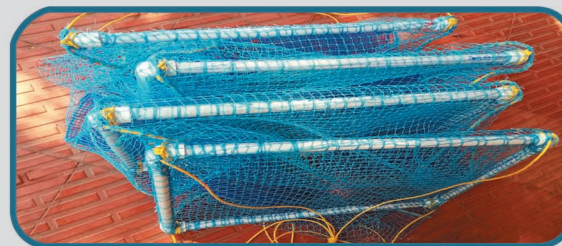
## Introduction

Pots/traps are one of the most responsible fishing methods both in marine and inland sectors. When impact on environment is great concern trap/pot fishing is one of the fishing methods which creates less impact to environment and needs less investment while ensuring quality catch. Pots/traps require less energy and is an eco-friendly fishing gear for resource conservation and sustainable harvest compared to other fishing practices. Presently traditional pots/traps are made of natural material like bamboo which requires more space onboard. Since the craft used by the traditional fishermen are very small, only a few traps can be carried onboard. The life of a trap made of natural material like bamboo is less than one year, whereas the foldable traps last for 4-5 years. Thus, there is a need for technological intervention to develop efficient and cost effective traps that are long lasting and foldable to enable fishermen to deploy more traps with the existing crafts to help double their income.

## Horizontal Serially Foldable Traps (3 Chambers)



The technology of sustainable fishing gears now-a-days has been developed to various sophisticated instruments in different countries in the world. However, the use of various fishing gears from primitive to advanced types depends on various natures of water bodies and types of fish species. Among all the fishing methods; both in marine and inland sectors when impact on environment is of great concern trap/pot fishing is the fishing method which create less impact to the environment. It needs less investment and at the same time ensures quality catch. Pots/traps require less energy and is an eco-friendly fishing gear for resource conservation and sustainable harvest compared to other fishing practices. The weight of the serially horizontal foldable trap is 3.6 kg. The diameter of the folding is 12.5cm.



ICAR-CIFT helps modernizing various fish traps to improve the income of fishermen such as collapsible fish trap, lobster traps, foldable traps. Collapsible and foldable traps have several advantages over traditional fish traps. Presently traditional pots/traps are made of natural material like bamboo which requires more space onboard since it is not foldable or collapsible it can carry only few in number but ICAR-CIFT made pots/traps that are foldable and collapsible and need little space.

### Advantages of horizontal serially foldable traps

- Require less space on-board and storage.
- More energy efficient.
- Better catch quality and higher market value.
- Less chance of ghost fishing.
- Eco-friendly as well as user friendly.
- Less by-catch and discards.
- Lower quantity of juvenile catch.
- Cost effective technology.

