

An FRP bin (Fig. 7) is provided with stainless steel rings for storing the branchlines. 100 branchlines can be stored in this drum. This facilitates storing of branchlines and avoids entanglement of lines and makes it easy during shooting of the branchlines.

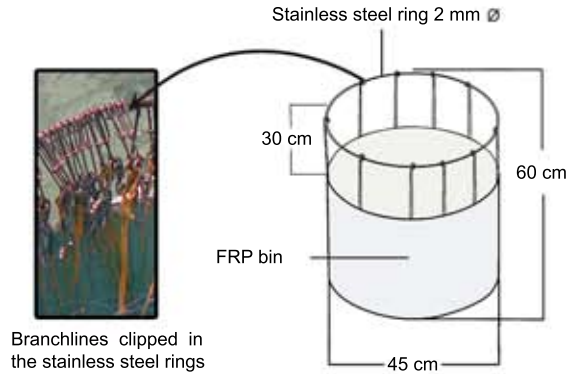


Fig. 7 FRP bin for storing branchlines

Table 2. Cost of modification of Pablo boats at Lakshadweep islands

Items	Cost(₹)
Stainless steel winch and guide pulley	26,400.00
PUF insulated FRP box (for keeping catch)	31,000.00
PUF insulated FRP box (for keeping bait fish)	20,500.00
FRP drum for storing branchlines	1,900.00
Transportation, Installation charges including labour	10,000.00
Total	89,800.00



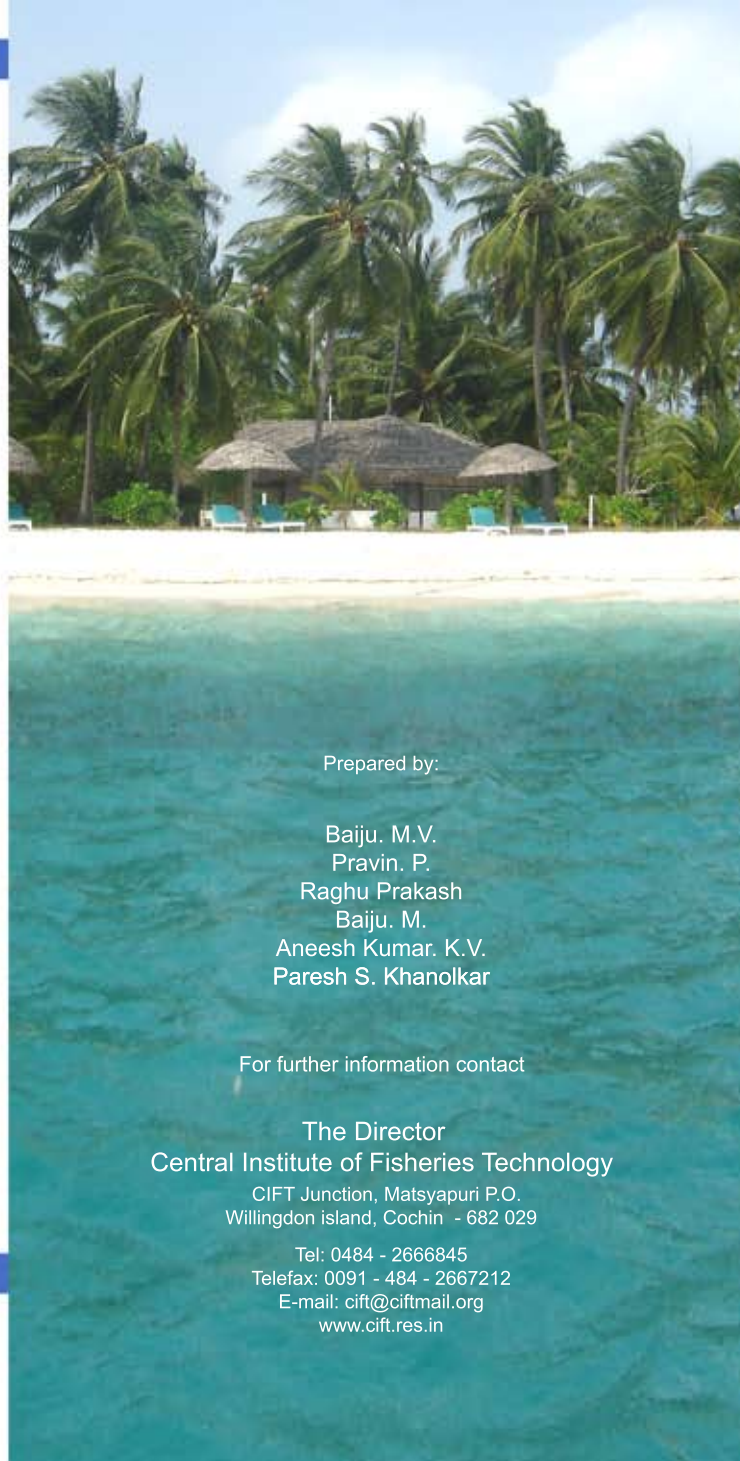
Plate.1 Modified Pablo boat



Plate.2 Installation of the winch

Conclusion

Modification work of Pablo boats can be carried out easily by the fishermen themselves. They can switch from pole and line fishing to longline fishing depending on the fishing season. The longline equipments fixed onboard can be taken out easily during off season for maintenance and repairs.



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Modification of Pablo boats for tuna longline fishing



NAIP Sub Project

“A Value Chain on Oceanic Tuna Fisheries in Lakshadweep Sea”

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Introduction

Lakshadweep has a coastline of 132 km and a lagoon area of 4200 sq. km. The main fishery is developed only on skipjack tuna. The estimated potential resources of the sea around Lakshadweep is about 1 lakh tonnes. The fishing in Lakshadweep is carried out only in a small scale. There are very good deep sea resources of oceanic pelagic fishes in and around Lakshadweep islands. The mechanised fishing boats of Lakshadweep range from LOA 7.62 m to 11.3 m and mostly conduct pole and line fishing.

Pole and line fishing is a traditional fishing method and target mainly skipjack tunas (*Katsuwonus pelamis*). However, few gillnets are operated for harvesting tunas in the northern islands of Lakshadweep. In addition to skipjack tunas, there is very good scope for operating pelagic longlines for other tunas and large pelagics. In order to diversify the fishing method and exploit the deep sea pelagics like yellowfin tuna, bigeye tuna, bluefin tuna etc, modifications were carried out on few Pablo boats at Agatti and Androth islands for carrying out pelagic longline fishing operations under the National Agricultural Innovative Project (NAIP) 'A Value Chain on Oceanic Tuna Fisheries in Lakshadweep Sea

Modification of Pablo boats

Under the National Agricultural Innovative Project (NAIP) five Pablo boats at Agatti island and two Pablo boats at Androth island were modified for tuna longline fishing operations. General deck layout before and after modification given in Fig. 1 & Fig. 2.

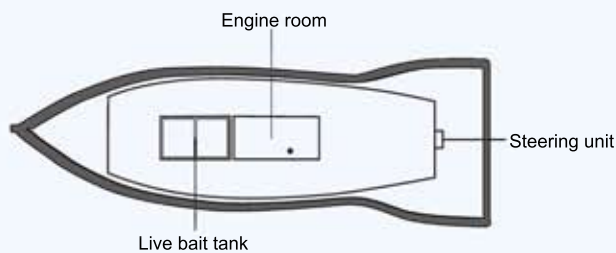


Fig. 1 General deck layout of conventional Pablo boat

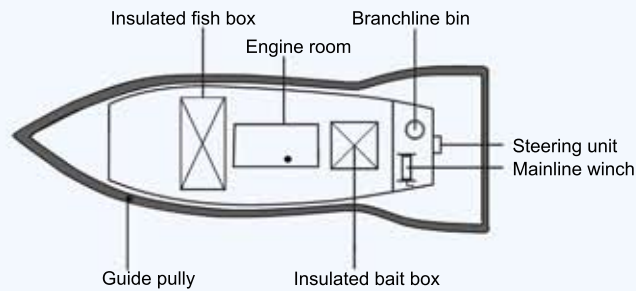


Fig. 2 General deck layout of modified Pablo boat

Table 1. Details of the boats selected for the modification at U.T. of Lakshadweep

Sl. No	Name of the boat	Place	Loa (m)	Breadth (m)	Depth (m)	Engine type (hp)
1	Noorjahan	Agatti	7.60	2.00	0.80	Kirloskar (16.5)
2	Jeelani	Agatti	7.60	2.00	0.80	Ruston (23.5)
3	Pondichery	Agatti	8.50	2.00	0.90	Ruston (23.5)
4	M.L. Bahraini	Agatti	7.60	2.00	0.90	Ruston (23.5)
5	M.D. Hinayath	Agatti	8.50	2.00	0.90	Ruston (23.5)
6	Saifullahil Maslool	Androth	9.14	3.04	0.90	Ruston (23.5)
7	Shaik Shafeeqe	Androth	9.75	3.04	0.90	Kirloskar (16.5)

Stainless steel winch and guide pulley

A stainless steel (grade IS 304) hand operated winch (1250 mm x 600 mm) is provided for hauling the line. The drum can store 5000 m of 3.0 mm dia Polyamide monofilament (PA) twine (Fig. 3). A stainless steel (grade IS 304) guide pulley is provided in the forward port side of the boat for guiding the mainline towards the drum (Fig. 4).

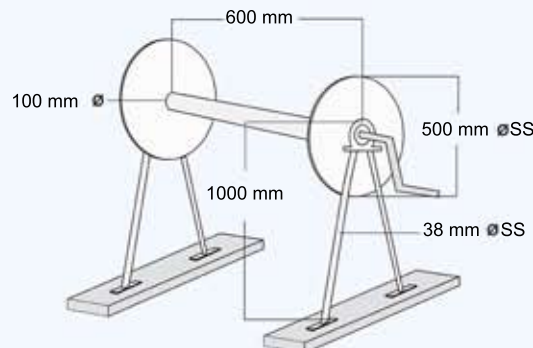


Fig. 3 Stainless steel winch

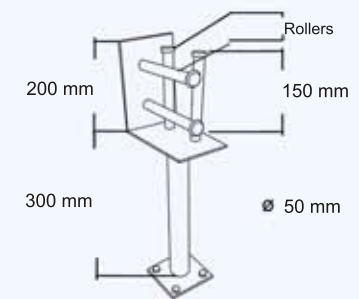


Fig. 4 Stainless steel guide pulley

PUF insulated FRP box for fish catch

A Polyurethane Foam (PUF) insulated Fibre Reinforced Plastic (FRP) box (1.6 m x 0.6 m x 0.9 m) is provided for storing the fish catch. It is placed in the forward portion of the fishing craft and fastened tightly (Fig. 5).

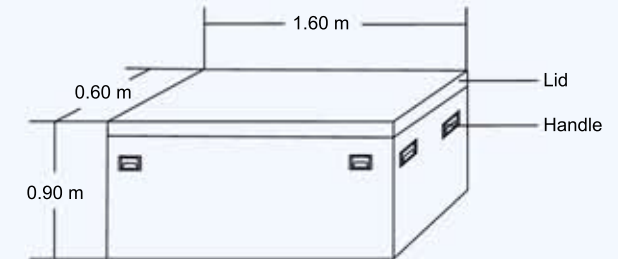


Fig. 5 PUF insulated FRP box for fish catch

PUF insulated FRP box for baits

A PUF insulated FRP box (0.9 m x 0.7 m x 0.75 m) is provided for storing the bait fish. It is placed in the aft of the fishing craft (Fig. 6).

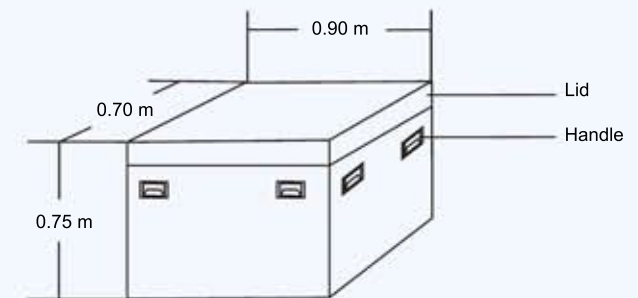


Fig. 6 PUF insulated FRP box for bait fish