

S. S. College, Jehanabad

Department: Zoology

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Topic: Craft and Gears

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Craft & gears

note:

g) Introduction:

The use of craft and gears in fishing technology play very important role and help enhancing the production commercial bases. The success of fishing largely depends on to how and which types of nets are used to capture the fish.

Devices for capture fishes

Craft and gears used in fish capture

A) Marine fishing craft

Different crafts are used due to different conditions of sea on the East and West coasts.

B) Craft used on the East Coast:

(1) Catamaran

It is the most primitive, traditional, economical and efficient crafts. It is made by ~~those~~ ^{tying} many many wood logs in such a way that it takes the shape of a canoe, which consists of two main logs and two side logs cut into boat shape and held together with rope. Generally the catamaran is five to ten meter long 0.5 m wide and 0.3 m deep.

Types of Catamarans

- i) Orissa and Oranjam type.
- ii) Commanchal type
- iii) Andhra type.
- iv) The boat - Catamaran.
- v) Masula boat

vii) ~~Andhra~~
viii) Miscellaneous type

i) Orissa and Oranjam type :

It is made by five logs
logs with woods not tied with rope

ii) Commanchal type

used in Tamilnadu made by
3 to 5 logs. Capturing flying fishes.

iii) Andhra type :

It is modified form of Orissa type
about 5 to 7 m long made by 9 heavy
side wood logs.

iv) The boat - Catamaran :

It is made by 2 wood
logs tied in boats shaped. used in
Mandapam and MUKKUN coastal area.

v) Masula boat miscellaneous type :

- a) Naula and Dinghi
- b) Tuticorin boat
- c) Pathiya
- d) Mudhupet type
- e) Shac - dhonic type

vi) Crafts use on West Coast :

on the west coast

Owing to the different conditions of the sea, the types of boats that have evolved are also different. —

i) Dug-out canoes — These are constructed from large wood logs; logs are hollowed by scooping out first. The bottom is thicker than sides. The small boats are 5 to 10 m long and called Thonies the large boats are 10 to 20 m long and called Yanchi or Odum. These boats used in Kerala and Konkani Coast.

ii) Plank-built canoes — It is a kind of a dug out ~~canoes~~ used in Kerala, Karnataka and North Bombay

iii) Outrigger canoes — These are large size ^{canoes} of about 15 m long. These boats are with a single outrigger and locally called Ramperi used in catching ~~netters~~ ^{commonly} ~~netters~~ ^{trawlers} fishing.

iv) Built up boats — It is highly specialized indigenous fishing craft. They are commonly used along the Bombay Coast and north Ratnagiri.

B) various fishing gears — Various types of gears are used for fishing in sea. They may be different size, shape and design used for catching

larged fishes. The ~~various~~ cotton, silk synthetic nylon, terylene fibres etc.

These are following:

- 1) fixed or stationary nets.
- 2) Bag nets and boat seines (Trawl).
- 3) shore seines and inshore drag nets.
- 4) Drift nets and gill nets.
- 5) Cast nets
- 6) Trap nets
- 7) Dip nets (scoop-net)
- 8) Long line and hooks.

1) fixed or stationary nets

These nets are used to catch fish at inshore water during low tides. These nets are kept fixed with the help of floats, sinkers and stakes. It is rectangular or conical in shape. They are available in various size. fixed nets are called Bengal moribba.

2) Bag

These net are generally of conical shape, mostly without floats or wings. Their mesh usually increases from back position to outer end to form a bag like net. ~~net~~ called Fraga or Thusi Valai are operated by the catamarans or canoe in Andhra Pradesh. In Mumbai and Gujarat a special type of bag net called dol is used.

Fig: — 41

Inland fishing Craft and gears

The Craft employed in inland fisheries may be described under two categories: —

i) Rafts

ii) Boats

Rafts — Rafts are the most primitive type of boats. They are constructed from various indigenous materials. In West Bengal and some parts of Tamil Nadu, the stems of banana trees are tied together to form a floating platform. In Bihar on river, a wooden light platform of bamboo. This type of raft is also met with on the Kaveri river in Tiruchi - Sakali and Tanjore districts.

Boats — Boats are built from planks and are of various type. They are sturdy and can withstand strong currents and tides in rivers and large lakes. One of the well known types is dingi, used in West Bengal. Dingi is narrow and has tapering bow and stern but no keel. Hulmarna boat used in the river Ganga.

Inland fishing gears

India has a wide variety of diversified water bodies, hence the nets used are also diversified.

It is following categories: —

- i) Trap net
- ii) Hand net
- iii) Drag net
- iv) Fixed net
- v) Miscellaneous types.