FISHING



- 'FISHING' is the art of catching fish & other aquatic animals.
- The implements used for catching fish are called 'Fishing gear'.
- Working platform used to reach the fishing ground & to conduct fishing operation is called 'Fishing craft'.
- Fishing method manner or method in which fish may be captured.
- Fishing technique fishing gears as well as fishing methods.

- Fishing technology a discipline which deals with the techniques of fish capture.
- It involves direct means of capture eg. Fishing gear, vessel and indirect means such as fish locating technology & technique involved in the application fisheries oceanography & limnology.
- The art of fishing is divided into three fields :
- i) Subsistence fishing : fishing practiced by fishermen to earn livelihood.
- ii) Sports fishing : fishing for sports or recreation.

- Iii) Commercial fishing : Fishing for profit or business.
- Evolution of Fishing Gear :
- In the past very simple fishing gears were used for catching fish.
- Over the years these are replaced by more efficient ones catching fish in bulk.
- Several factors contributed to development of sophisticated fishing gears.
- Earlier times fishes were caught singly.
- Later bulk fish catching method developed

due to demand.

- Need to venture into deeper water for bulk catch led to the development of efficient fishing craft & gears.
- Initially, hand picking practiced along shores of lake, river & sea to catch sedentary, stranded or slow moving orgs.
- To prevent escape of fish they were stunned & stupefied.
- Stupefied either mechanically or electrically.
- A kind of spear was developed to extend fishing.
- Spears pushed by hand was extended by using

- them as casting gear.
- Development of methods like harpooning has the ease of retrieving the catch.
- Use of spears cause injury to fish.
- Hence, grasping instruments like clamps, tongs & rakes etc. developed.
- In line fishing, fishes are lured to a bait. Bait is presented in such way that fish is neither able to take it away nor can escape once taken.
- No. of lines were limited.
- From simple line fishing, long line with several hooks has emerged which can extend upto a considerable length.

- The need to operate over a larger area using a movable fishing line led to development of trolling lines.
- Both permanent & semi-permanent barriers were erected in areas with changing water level
- To prevent fish from escaping when water flow back, marked the devpmt of filtering fishing gears.
- Initially gear material used were wood, stick & flexible branches.
- With discovery of netting, netting fibres were used for gear fabrication.

- From primitive rake, the development of dredge & from that to dragged stow net and later trawl.
- **Trawling** is a further dvpmt of dredge.
- Introduction of fish detection devices & other electronic equipments led to operation of mid-water trawl to catch pelagics.
- Seine net without bag have evolved from a net wall.
- Seine nets with bag from bag net like stow net.
- The desire to catch shoaling fishes & preventing their escape led to evolution of surrounding nets.

- In case of Purse seine, fish shoals are surrounded by sides & also from below.
- Gears like scoop nets developed to catch fish by dipping in water & then lifting when fish are gathered over them are lift nets.
- Unlike lift nets, falling gears secure their catch from above.
- Gears developed to catch high value fish without causing damage to them using the principle of gilling is gill nets.
- Fishing by entangling them in water plants led to dvpmt of modern entangling gear trammel net.