

COMMERCIAL FISHING VESSELS AND FISH STORAGE -INDIA

M.V.Baiju
Senior Scientist
(Naval Architecture)

Central Institute of Fisheries Technology,
Matsyapuri.P.O
Cochin:29

Mechanised vessels in India

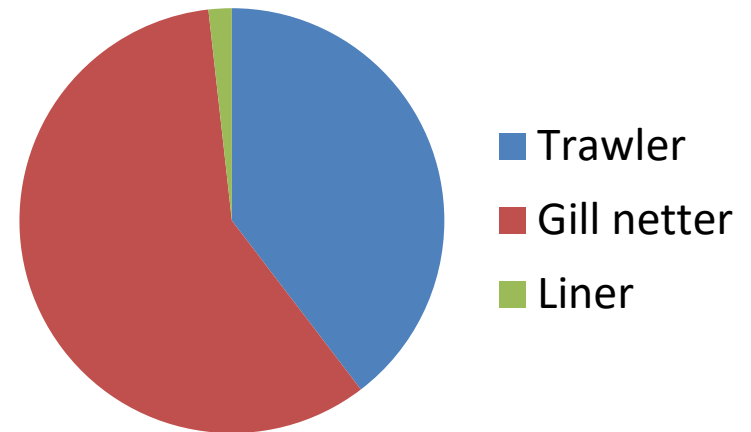
As per marine fisheries census, a total of 72,559 multiday mechanised fishing vessels are operating in India of

Trawler=11,247 (Appx 400 daily boats)

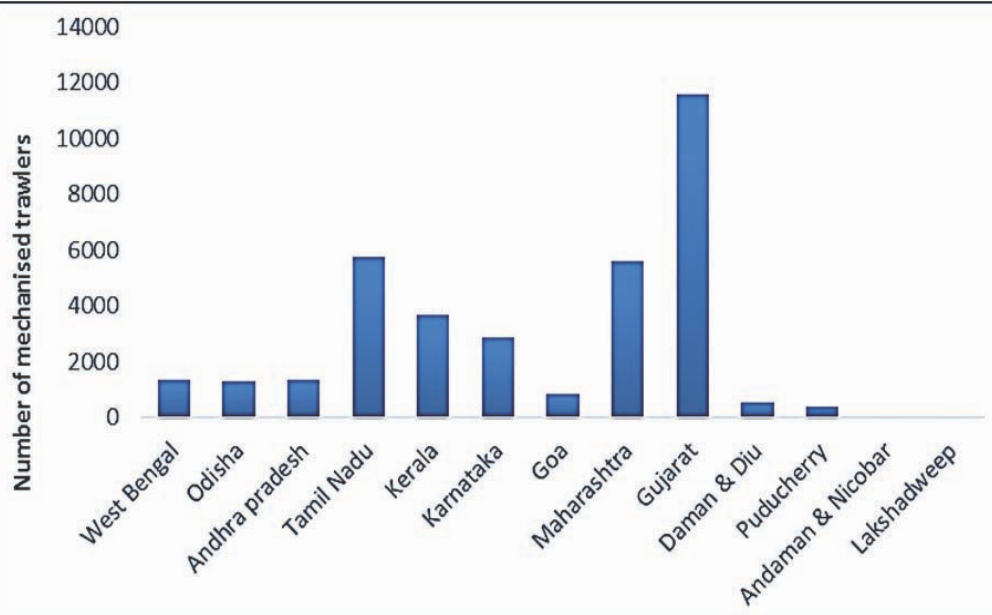
Gill Netters= 16,642

Liners= 504

Mech. Vessels



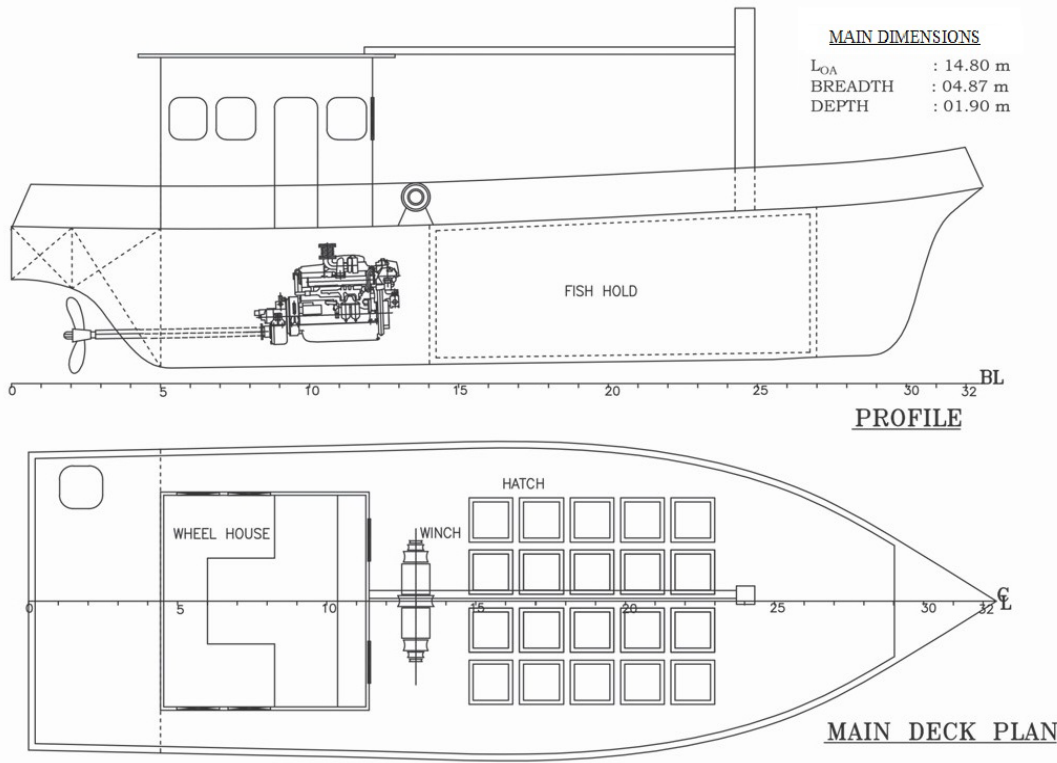
Mechanised Trawlers



Types of Trawlers	LOA (m)	Horse power
Small Trawlers	<12.0	45-135
Medium Trawlers	12.1- 16.0	68-240
Large Trawlers	16.1 – 24.0	100-450
Very large Trawlers	>24.0	>450

Mechanised Trawlers of Gujarat and Maharashtra

95% of the trawlers in Gujarat are wooden and remaining use steel. L_{OA} of 12.8 - 21 m with an engine power of 98 to 193 hp.



Mechanised trawlers of Maharashtra, Goa, W. Bengal

Material: Wood. L_{OA} range of 13 to 17.5 m with 95-193 hp engines.



Insulated fish store

Apprx volume inside 20 – 40 Cu m

Mechanised Trawlers of Goa

Material: Wood and steel

L_{OA} 9.75 to 21.5 m and

Main Engine of 40 - 350 hp.



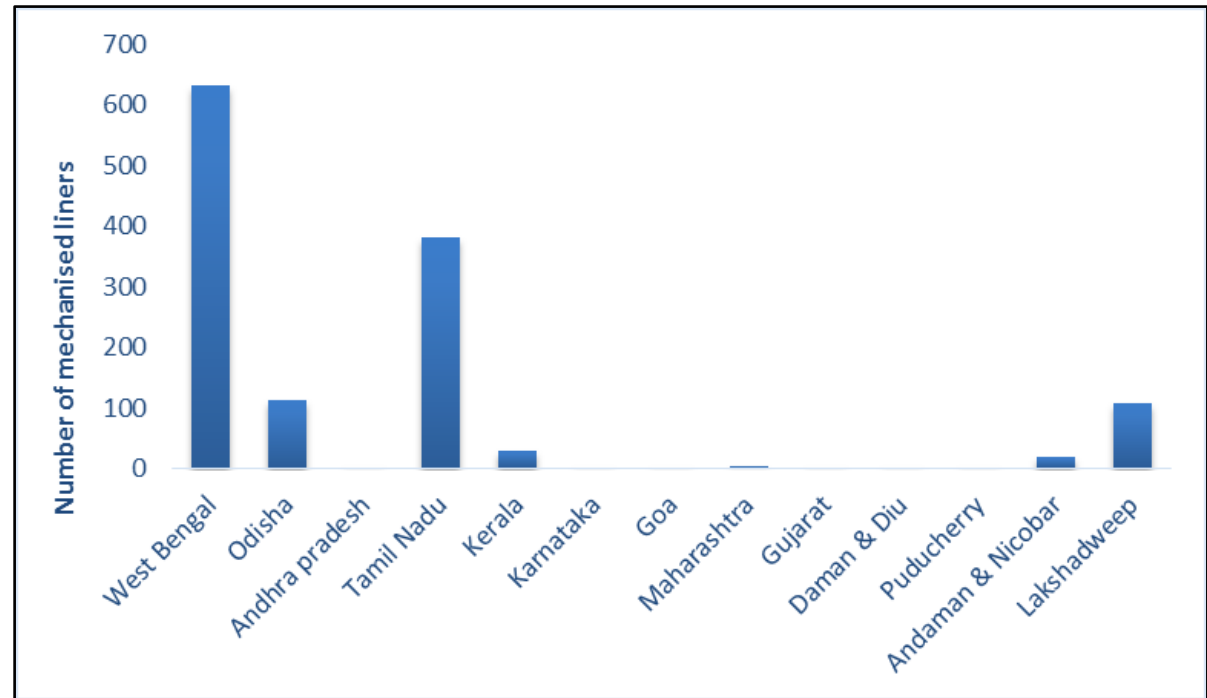
Trawlers of Wet Bengal



Deep sea long lining



- Long liners operate from W. Bengal, Tamil Nadu, Odisha
- Insulated fish store
- Apprx volume = 15-35 cu m



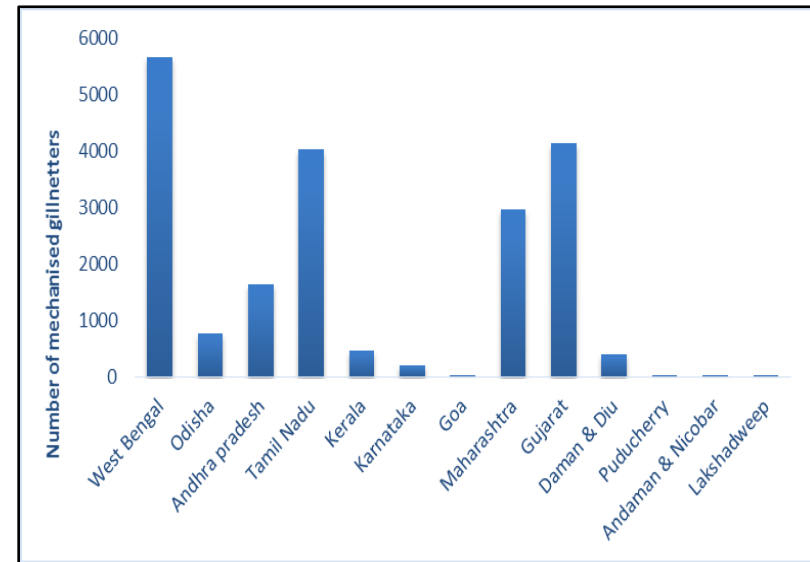


Latest Long liner cum
Gillnetter-RSW tanks
Designed by CIFT and built by
Cochin Shipyard :
largest shipbuilder in India
Loa = 22.5m



Deep sea Gill netting

- Operate from W.Bengal, Tamil Nadu, Odisha, Gujarat, Maharashtra, etc



Types of Gillnetters	LOA (m)	Horse power
Small Gillnetters	<12.0	24-60
Medium Gillnetters	12.1- 16.0	60-120
Large Gillnetters	16.1 – 24.0	100-193

Mechanised gillnetters of West Bengal



Material: Wood and are of size ranging from 10.5 to 17.7 m. The hull shape of stern in some gillnetters is sharper and similar to the forward. The engine power varies from 90 to 190 hp.



Mechanised gillnetters of Maharashtra

LOA of 10- 12 m and the vessels are made of wood. Upto 98 hp were common. The vessels have a smaller deck area in the aft and a larger area in the forward of the wheel house



Fish storage

Artisanal vessels: Short duration fishing and **do not** carry ice

Traditional vessels: Conduct daily fishing and **do not** carry ice

Multiday vessels: Carry **ice in crushed form** as give in next slide

Latest boats : Have **RSW tanks** and also carry some ice. (R-404)

Proposed method from 2020: **Slurry ice** from sea water + Ice

FISH STORAGE ONBOARD

Insulated fish store as given below







F.V.Sagar Harita- Long Liner Cum Gillnetter - Designed by CIFT and constructed by Goa Shipyard Ltd- RSW tanks : 1.2 cu m each: 2 no.s

Thank You