

Specifications of TED Materials

Fabrication of Aluminium alloy Grid

- *Oval grids:* 48" Height x 41" Width & 40" Height x 36" Width with bar spacing of 4"
- *Material :* Aluminium alloy pipes 6082 T6 grade
- *Pipe:* 1" diameter and 3.2 mm wall thickness.
- *Welding:* TIG (Tungsten Inert Gas) welding for the grids

Extension funnels for fixing the Grid

- *Funnel:* 25 mm mesh braided /twisted HDPE of twine with 2 mm diameter, 96 meshes length and 260 meshes circumference.
- *Single Flap:* 40 mm HDPE twisted depth stretched 3 mm twine size, 90 mesh length and 30 mesh depth.

Advantages of TED

- Facilitate escape of Sea turtles from the trawl nets
- Facilitate higher trawl opening during fishing
- Improved quality of shrimp/fish catch
- Helps in fuel saving

Marine Turtles of India



1.Green Turtle
(Chelonia mydas)



2.Hawksbill
(Eretmochelys imbricate)



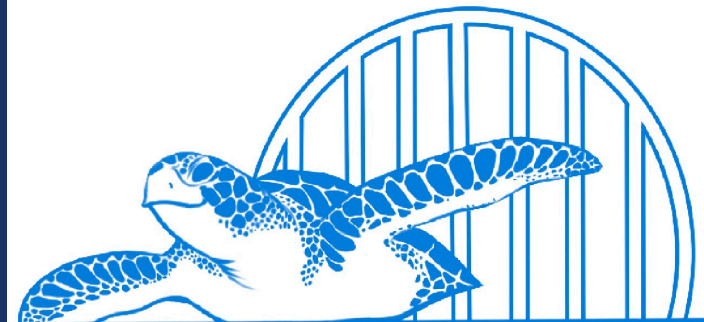
3.Leatherback
(Dermochelys coriacea)



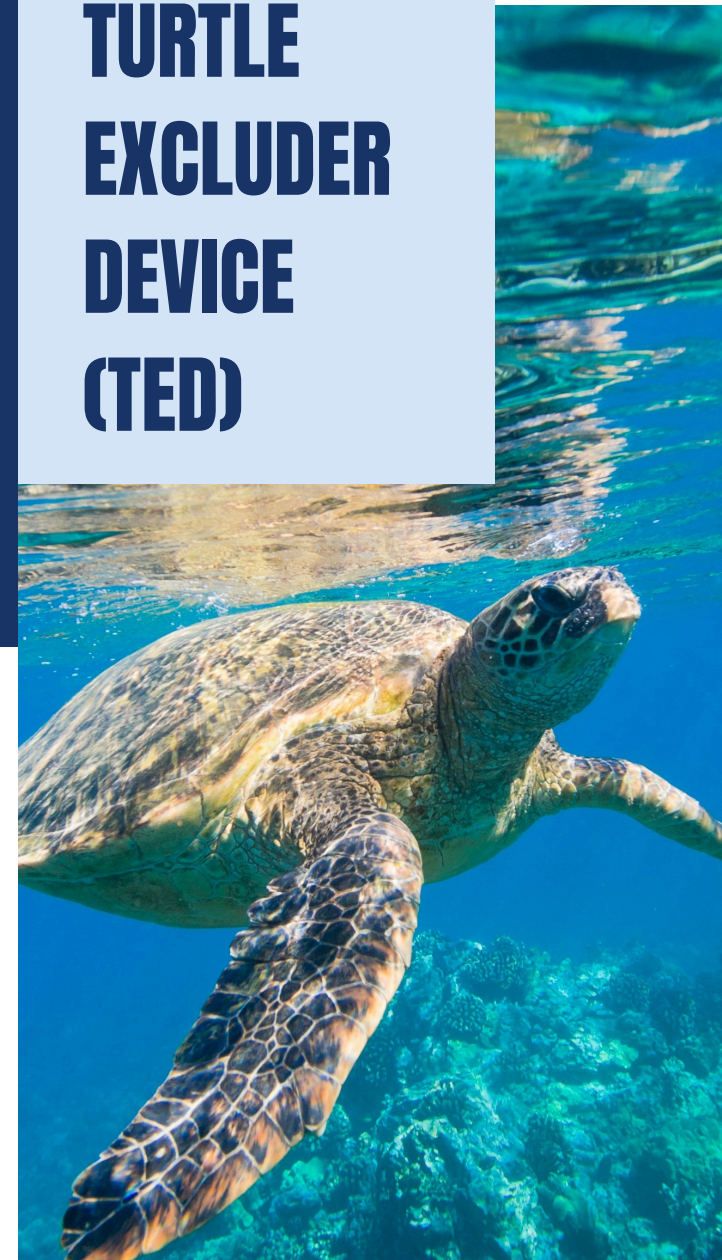
4.Olive Ridley
(Lepidochelys olivacea)



5.Loggerhead
(Caretta caretta)



TURTLE EXCLUDER DEVICE (TED)



USE TED... SAVE TURTLES...



Network for Fish Quality Management & Sustainable Fishing (NETFISH)

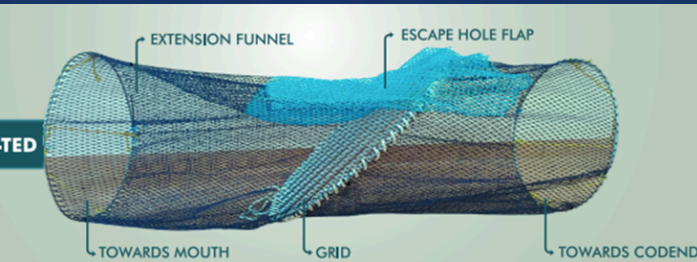
(A registered society of MPEDA)

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During the operation of trawl nets, Sea Turtles could get trapped in the net accidentally. The trapped turtle may not be able to move up to the water surface for breathing and may lead to mortality. Use of TEDs in trawl nets will help to reduce the incidental catch of turtles.

What is TED?



- A Turtle Excluder Device or TED is a specialized device that allows the sea turtle to escape when caught in trawl net.
- TED allows the shrimps and fishes to pass through to the cod end.

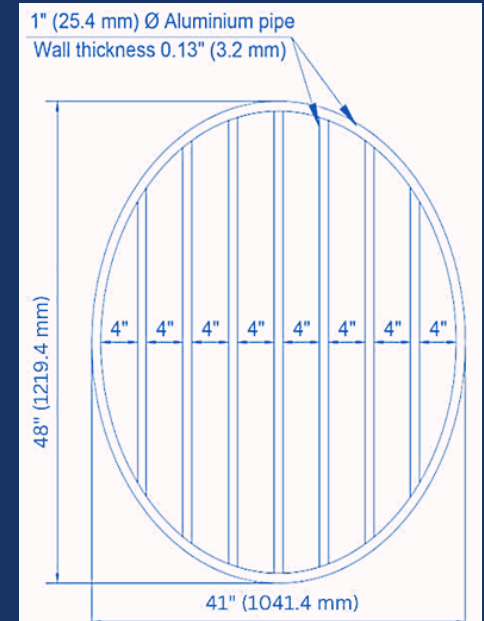
Why are TEDs needed?

- Turtles are keystone species in marine ecosystem. Turtle conservation will lead to healthy marine ecosystem and fisheries.
- Turtles are endangered animals and legally protected under the Wildlife Protection Act 1972.
- Marine Fisheries Regulation Acts of coastal states insist to use TEDs in trawlers
- Indian fishery is not certified under section 609 of US public law 101-162
- Therefore, Wild caught shrimp exports from India to USA is not taking place since 2019
- India is losing around ₹4,500 Crores (USD 550 Million) each year due to non-export to USA.
- The harbour selling price of wild-caught shrimp has declined.
- The price decline affects the livelihood of fishers and other stakeholders
- TED to be implemented in all trawlers to get certified under this US law for resuming the wild caught shrimp export to USA

Finalized TED Designs in India

- MPEDA and ICAR-CIFT developed two types of TEDs in India.

48"x 41" grid TED for trawl nets with head rope > 30 m length



40"x 36" grid TED for trawl nets with head rope < 30 m length

