



FAO project
“Responsible use of
fisheries and aquaculture
resources for sustainable
development”
(GCP/GLO/352/NOR)

Fishing vessel design
adaptation to climate
change

August 2022
– Nov 2023

Budget:
230,000
USD



Sri Lanka



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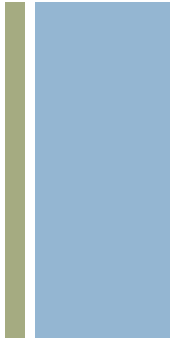
+ Project outputs – modified (A)

- Safe design for small-scale open (un-decked) FRP fishing vessels of 20 ft and 23 ft, available in English, Spanish and French languages.
- Two FRP fishing vessels constructed in Sri Lanka, tested and provided to fishing cooperatives as demonstration vessels.
- Moulds available at local shipyards for construction of more vessels of the same types.
- Step-by-step fishing vessel construction manuals for the vessels in 3 languages.
- Step-by-step vessel construction videos available in English language on FAO's YouTube channel. At least 5 short videos are foreseen
- Vessel designs and manuals produced disseminated globally via the recently launched FAO Fishing Vessel Design Database <https://www.fao.org/fishery/en/collection/vesseldesign>



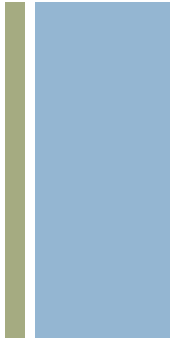
+ Project outputs – modified (B)

- Bulbous bow design produced for a 55 ft multi-day boat
- Model tested in a water tank in Spain
- Plug & mould produced for the bulbous bow
- Vessel equipped with a bulbous bow, and trials at sea conducted for resistance, speed and energy savings.
- Short report and brochure produced on bulbous bow test results.



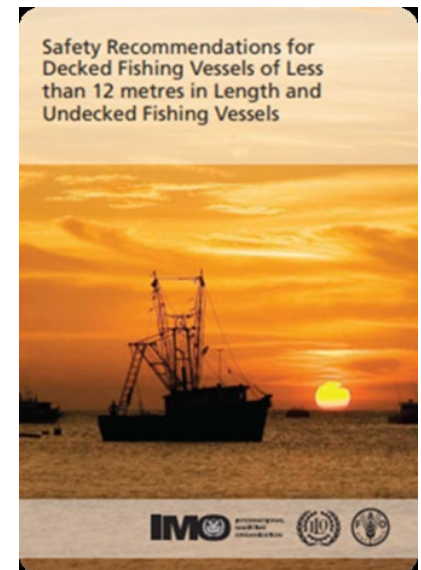
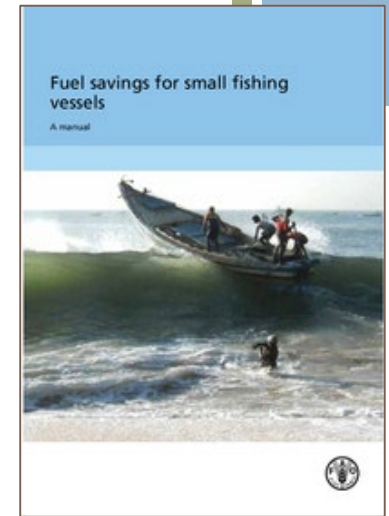
+ Project outputs – modified (C & D)

- Training materials prepared for FRP boat quality assurance (including good lamination practices) in Sinhala and Tamil languages
- Two day training conducted on FRP quality assurance in boat building for senior technical staff of at least 8 boatyards and Government inspectors
- Safety at sea Training of Trainers package produced in Tamil and Sinhala languages.
- 1 week training of trainers on safety at sea conducted for at least 10 safety trainers



+ Project outputs – modified (E)

- International vessel safety standards and fuel saving guidance for fishers translated in Sinhala and Tamil languages.
- 1) Gulbrandsen, O. 2012. Fuel savings for small fishing vessels - a manual. Rome, FAO. 57 pp.
- 2) FAO/ILO/IMO. 2012. Safety Recommendations for Decked Fishing Vessels of Less than 12 metres in Length and Undecked Fishing Vessels. Rome, FAO. 254 pp.
- Documents printed and disseminated among boatyards and fishers



+ Work plan - original

Sri Lanka	2022/2023	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep t	Oct	Nov
Output 1: Design of Vessels. Un-decked (7-9m) and decked (9-15m)																	
Activities																	
1.1 Identification and selection of boat sizes for new designs in close collaboration with local fisherfolk organisations and taking into account fishing methods, gear, engines and existing boat preferences.	NAs-NFIFO																
1.2 Preparation of Designs.	NAs-NFIFO																
1.3 Contracts with shipyards	FAO-NFIFO																
1.4 Preparation of Step-by-Step manual format	FAO-NFIFO																
Output 2: Development of design into Plugs and Moulds																	
2.1 Construction of Plugs	Contracted shipyard																
2.2 Construction of Moulds	Contracted shipyard																
Output 3: Construction of Prototype																	
3.1 Construction of hull Deck and Accessories	Contracted shipyard																
3.2 Outfitting (including also safety gear and accessories)	Contracted shipyard, NFIFO																
3.3 Trials and Training	Shipyard, NFIFO, (and BTI?)																
3.4 Transport of moulds and plugs to local communities.	NAs, NFIFO																
3.5 Selection and formal handover of constructed boats to fisherfolk cooperatives	NAs, NFIFO																
Output 4: Promotional Activities																	
4.1 Step-by-step vessel construction manuals and YouTube videos	NAs-NFIFO																
4.2 Translations	NFIFO																
4.3 Trainings and workshops	NAs +NFIFO + (BTI?)																
4.4 Publication and distribution of materials	NFIFO, FAO-PUBLICATIONS																
4.4 Final reporting	NFIFO																

This plan will be modified following the discussions

+ Concluding remarks

- Most activities under this project will be implemented by the shipyards to be contracted - monitored by the BFAR team – FAO and international experts give advise and facilitate the process.
- There is some flexibility in implementation, but we should target to complete all work by the end of next year.
- This is your project – you decide what will be the outcome

Together we aim to improve the safety of small-scale fishers in Sri Lanka, by increasing their access to better and safer fishing boat designs that can be build cheaper and meet international standards.

FAO looks forward to collaborate with you and achieve together the project objectives.

