

PRODUCT DEVELOPMENT AT THE FORESTRY AND WOOD INDUSTRIES TRAINING CENTRE

General information

- The Forestry and Wood Industries Training Centre (FWITC) serves the forest value chain by not only training, but also by providing product development services.
- At the moment FWITC is developing improved boat models for Nyasa fishermen. The development process began in November 2017 and will finish during 2018.
- The new boat models are developed in collaboration with the Nyasa fishermen, who requested FWITC to develop new models for them.
- The key issues taken into consideration when developing the new boat models have been safe operability, cost efficiency, durability, environmental friendliness and easy and low cost maintenance.
- The new boat models are expected to give higher fishing yields due to light weight and proper coating, which will increase fishing efficiency and provide the fishermen with safer operating environment, as the new boats are waterproof and easier to operate.
- See the picture on right for the old (back) and new boat (front) models.



Specifications and boat building costs

- So far, two boat models have been developed. Both boats are for fishing purposes. The smaller boat is for a crew of 2 people and extra load of 100kgs, while the bigger boat can handle a crew of 6 people and extra load of 200 kgs.
- The smaller boat is 4.7 meters from stern to stem with a beam of 1.2 meters.
- The bigger boat is 7.2 meters from stern to stem with a beam of 1.2 meters.
- The total boat building costs are about half a million TSH for the smaller boat and a million TSH for the bigger one. The breakdown can be seen in the tables below.

Materials and costs of the small boat

Item	Material	Costs
Construction material	Plywood, planed timber	229,000TSH
Coating	Resin, hardener, fibre glass matt, marine paint, wood marine primer	226,300TSH
Other building materials	Cable ties, wood screws	17,500TSH
Total building costs	470,000TSH	
Maintenance requirements	Sanding and 3 coats of primer	10,000TSH
Expected maintenance cycle	3 years	
Expected lifespan	10 years	



Materials and costs of the big boat

Item	Material	Costs
Construction material	Plywood, planed timber	405,000TSH
Coating	Resin, hardener, fibre glass matt, marine	399,000TSH
Other building materials	Cable ties, wood screws	200,00TSH
Total building costs	1,004,000TSH	
Maintenance requirements	Sanding & a few coats of primer	40,000TSH
Expected maintenance cycle	3 years	
Expected lifespan	20 years	



Product development services at FWITC

- Product advisory and process development services taking place at location or at FWITC
- Business planning and advisory services taking place at location or at FWITC
- Testing timber samples
- Machinery demonstrations

FWITC also offers support on machinery procurement, networking and finding funding for investment. In addition the centre can be used for organising workshops, events and client meetings.

Contact and how to get there

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Driving instructions: Junction of CF Madibira Rd., drive straight about 1,5 km. The junction to FWITC is opposite to the briquetting factory, on the left side of the road.

About the Private Forestry Programme (PFP)

The Private Forestry Programme (PFP) supports private forest ownership, particularly the establishment and management of plantations by smallholders, as well as the wood industry and the development of mature timber markets that would benefit all stakeholders. The programme operates in four regions: Iringa, Njombe, Morogoro and Ruvuma.

The Programme is supported by the Ministry for Foreign Affairs of Finland and the Ministry of Natural Resources and Tourism of Tanzania.