

DESAIN PERAHU NELAYAN BERBAHAN *FIBERGLASS* DI SUNGAI WAMPU

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ABSTRAK

Perahu nelayan atau penangkap ikan merupakan perahu dengan alat tangkap bubu di Sungai Wampu berbahan material kayu, namun dengan adanya alih fungsi lahan maka perahu didesain ulang menggunakan material *fiberglass*. Akan tetapi, informasi karakteristik perahu yang telah beroperasi belum tersedia. Penelitian ini dilakukan untuk mendapatkan karakteristik perahu, hasil penelitian menunjukkan parameter hidrostatis berubah dengan perubahan *draft*, *Displacement*, AW, LCF, koefisien bentuk bertambah dengan pertambahan *draft*. Sedangkan LCB, KMI, dan KMT menurun dengan bertambahnya *draft*. Penelitian ini menggunakan metode *Holtrof* dengan lambung *monohull* memiliki *displacement* 0,8707 Ton serta daya mesin 15 Hp dengan kecepatan 9,5 Knot. Penentuan data utama kapal berdasarkan jumlah muatan dengan, LPP= 7,02 meter, B=1,27 meter dan H=1,08 meter. Pembuatan miniatur menggunakan PVC, LPP= 60,3 cm, B= 10,8 cm, H= 9,3 cm. Dengan hasil penelitian ini diharapkan dapat dibuat desain perahu nelayan yang sesuai di Sungai Wampu.

Kata Kunci : Desain, Hidrostatik, *Fiberglass*, Perahu Nelayan

FIBERGLASS FISHING BOAT DESAIGN ON THE WAMPU RIVER

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ABSTRACT

Fishing boats or fishing boats are boats with trap fishing gear on the Wampu River made of wood, but with land conversion, the boat was redesigned using fiberglass material. However, information on the characteristics of boats that have been in operation is not yet available. This research was conducted to obtain the characteristics of the boat, the results showed that the hydrostatic parameters changed with changes in draft, displacement, AW, LCF, the shape coefficient increased with the increase in draft. Meanwhile, LCB, KML, and KMT decreased with increasing drafts. This study used the Holtrof method with a monohull hull having a displacement of 0.8707 tons and an engine power of 15 Hp with a speed of 9.5 knots. Determination of the main data of the ship based on the amount of cargo with, LPP = 7.02 meters, B = 1.27 meters and H = 1.08 meters. Making miniatures using PVC, LPP= 60,3 cm, B= 10.8 cm, H= 9,3 cm. With the results of this study it is hoped that a fishing boat design that is suitable for the Wampu River can be made.

Keywords : ***Design, Hydrostatic, Fiberglass, Fishing Boat***