ECONOMICAL AND TECHNICAL ANALYSIS DESIGN OF TRAWLER FISHING VESSEL IN TERRITORIAL OF TUBAN

Author : Budyani Negari
NRP : 4106 100 007
Department : Naval Architecture and Shipbuilding
Supervisor : Prof. Ir. Djauhar Manfaat, M.Sc., Ph.D.

ABSTRACT

Territorial water of Tuban which is located at north Java sea have the rich fish potention. This great potention will be tried to be increased with design of trawler fishing vessel.

This final project design purse seiner fishing vessel with trawler fishing vessel, which suitable for Tuban territorial water economically and technically. The design is started with determination variables, parameters, and constraints which suitable for Tuban territorial water. The objective function of this optimization model is minimize building cost.

The optimization result are : \( L_{PP} = 17.68 \, m \), \( Bm = 5.20 \, m \), \( H = 1.96 \, m \), \( T = 1.714 \, m \), \( V_S = 7 \) knots, then lines plan & general arrangement were made. Total building cost \( Rp.1.519.005.945 \)

Keywords : fishing vessel, trawler, Tuban