DESIGN OF CARGO-PASSENGER SHIP FOR
GRESIK-BAWEAN ROUTE

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ABSTRACT

Bawean Island is included in the administrative area of Gresik Region, and to reach Bawean from Gresik relies only on the sea transportation. In fact, there were many accidents happened to fiberglass ships because fiberglass material was brittle and could not stand for continuous impact load. This led to the damage on the ship's hull and harm the human life and environment. The incident also occurred in Gresik-Bawean shipping. To overcome these problems it created designs of Cargo-Passenger Ship for Gresik-Bawean Route, the function other than as a ferry boat as well as a tourist. The analysis results in ship with main dimensions as follows: \(L = 38\,\text{m},\) \(B = 8\,\text{m},\) \(H = 3.4\,\text{m},\) and \(T = 2.3\,\text{m},\) with estimated cost Rp. 24,211,227,853.18. From the data, design scope then enlarges into Lines Plan, General Arrangement, Safety Plan and interior design for passenger deck.

Keywords: Cargo-Passenger Ship, Transportation and Tourism, Gresik-Bawean Route