

TOURISM SHIP DESIGN PLANNING AS SUPPORTING TOURISM IN LAKE TOBA

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ABSTRACT

Catamaran Tourism Ship Planning is a ship that is used specifically for recreational purposes on Lake Toba, with the routes Parapat, Waterfall Situmurung, Tomok, Tuk-Tuk and Batu Gantung. This design plan aims to obtain data on catamaran tourism vessels according to passenger capacity, obtain Lines Plan designs, and General Arrangements, as well as determine design characteristics that are in accordance with the distance of shipping routes on Lake Toba. In this final project, the design of the Lines Plan, General Arrangement, and the manufacture of ship miniatures will be carried out. With a passenger capacity of 50 people, so that the main size of the ship is obtained, LOA = 18,072 m, Lwl = 17,02 m, B = 9,92 m, B1 = 1,705 m, H = 2,5 m, T = 0,832 m, Vs = 15 knots. The process of making the hull using Maxurft Modeler Advance, then modified using Autocad to get the Lines Plan design, and General Arrangement. From the General Arrangement design, the miniature size is obtained, length = 60.17 cm, width = 33.03 cm, total height = 16.31 cm.

Keywords : Tourist Boat, Catamaran, Tourism