DESIGN OF BEEF-CARRYING SHIP FOR EAST NUSA TENGGARA (NTT) – JAKARTA ROUTE

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ABSTRACT

Sea transportation for beef commodity from East Nusa Tenggara (NTT) to Jakarta is inadequate, while the demand in Jakarta and surrounding areas keeps on increasing. The beef-carrying ship is expected to replace the livestock carrier, since this vessel is able to transport more cargoes to the amount for the same weight, while the freshness of the beef is maintained by the refrigeration system. This Final Project designs a beef-carrying ship with an ability of transporting beef that is obtained by using the data from beef production in NTT and predicted to 2015, then look for the payload, route, seaspeed and main dimensions of the ship. With the main dimensions which is already obtained then do technical calculations to obtain the optimal main dimensions, then design the Lines Plan and General Arrangement. Through this design of beef-carrying ship, it is expected to provide an alternative design as a solution to answer the needs of the people of Jakarta and surrounding areas in particular and Indonesia in general. The ship’s specifications are obtained with payload of 2705 tons, or equivalent with 1320 unit of pallets with 1100 x 1100 mm size, and the main dimensions of Lpp: 81.00 m; LWL: 84.24 m; B: 13 m; H: 8.5 m; T: 6105 m; from Port of Tenau in Kupang NTT to Port of Tanjung Priok in DKI Jakarta route.

Keywords – Beef-Carrying Ship, Pallet, Reefer, NTT – Jakarta Route