Abstract
Organizing the Hajj with a fleet of ship is an alternative transportation in the Hajj. With sea transportation, Biaya Penyelenggaraan Ibadah Haji (BPIH) will be much cheaper than using the planet. Society can choose according to their economic ability. Although using passenger ship that will be longer than the plane, the passengers ships comfortable enough to sail despite the many days with the existing maritime technology. Moreover, the facilities available in the ship during the voyage is to support activities of the pilgrim. Therefore, the alternative transportation needs of the ship to promote maritime sector in Indonesia.

This analysis aims to design a passenger ship for the pilgrimage comfortable, fast and in accordance with the current maritime technology and knowing the technical and economic aspects in the design of ships, according to the development of the pilgrimage kemaritiman the current technology.

Based on the results of the analysis in the KM. Labobar (Pelni owned) ships with a capacity of 3000 passenger. This ship’s technically capable to sail in the Indian ocean without having to fill the fuel and other logistics. From the economic side, this ship will save the cost or BPIH. Thus it can be concluded that the ship is eligible to be used as transportation alternatif the Hajj.

Key words: Passenger Ship, the Hajj, technical economical analysis.