

Life cycle costing analysis of Soekarno - Hatta Rail link (SHIARL) project using value engineering method

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Abstrak

Soekarno - Hatta Airport is the main gateway for international flights, particularly to Greater Jakarta. Currently, it serves more than 44 million passengers per year which causes accessibility problems due to the high volume of vehicles. Toll Road still becomes the main access to the airport and in peak hours, these high volumes of vehicles create congestion leading to time travel uncertainty. Soekarno-Hatta International Airport Rail Link (SHIARL) is an alternative mass transportation project which is expected to provide accessibility and mobility for people and goods to the airport. So far, the project is still not able to attract private investors due to lacking of technical and financial feasibility. Therefore, this research aims to develop a conceptual design of Soekarno-Hatta International Airport Rail Link (SHIARL) by using value engineering approach to provide a comprehensive study in order to achieve project realization. This research used quantitative and qualitative methods through questionnaire survey distributed to various stakeholders related to the project and focus group discussion (FGD). The results identified additional functions for innovation through the integration of Mass Rapid Transit (MRT), flood control, telecommunication and development in the downtown area of the station. These functions were then analyzed by using life cycle cost analysis to show value for money of the project.