ABSTRACT

Flooding in Jakarta has become routine and annual and very disturbing for residents of Jakarta, although floods have occurred since the Dutch colonial period, when Jakarta was called Batavia has become a subscription flooding. Various attempts have been done by the government of Jakarta from flooding, one flood canal construction in “Banjir Kanal Barat” and “Banjir Kanal Timur”. “Banjir Kanal Barat” has a length of about 1 kilometer, and “Banjir Kanal Timur” has a length of about 23.5 kilometers.

In addition, a very severe road congestion in Jakarta, adding a series of complicated problems in Jakarta. Government has tried to tackle congestion by limiting vehicle in the capital city and increase the fleet of public transport alternatives, such as the busway and monorail.

Bus transportation is reliable and efficient. With more advanced technology, the optimization design of the bus even more enhanced. With 2 of the above problems of the city of Jakarta, to be considered again to produce alternative transportation in accordance with the current condition of the city. Amphibious bus was the one who may be able to answer or a solution of various problems that occurred in Jakarta. Where the bus is designed in such a way that can walk the
streets of asphalt and walk on water. One way is to make stomach tight to the body of the bus. Highlights of this research is how to design optimal amphibious buses to operate in “Banjir Kanal Timur”.

Keyword : Amphibious, bus