DESIGN OF SMART BOAT AS DEVELOPMENT SMART CARS FOR SOURCE OF ALTERNATIVE LEARNING IN THE REGIONAL FLOW KAHAYAN RIVER CENTRAL KALIMANTAN

ABSTRACT

Now day the interest in reading of Indonesina childrens are still quite low. They are more familiar with spoken language than written language. In addition, still many among they unreached world literature. Goegrafis location of Indonesia in the form of islands and some of the population live in remote areas with rivers and boats as the only means of transport is also a problem in educational equity. Central Kalimantan for example, land transport infrastructure and facilities are generally very limited. Transportation by water is the primary vehicle in the countryside. Therefore, in this final project will be design the smart boat as the development of smart cars which can already be said succeed in increasing the spirit of learning and alternative solutions to the problem of education for Indonesian children in areas that are still lagging. This final Project aims to design a boat that can carry out the activities in a smart car.

Smart boat is designed based on design needs who description through field surveys and literature studies to determine the performance required and the existing limitations. Then the design concept / preliminary design created. These results are examined characteristics such as stability and hydrostatic. If the characteristic is not good then it should be repeated and if the characteristic design concept is good, or in accordance with standards will be continued with examining the fit between the needs of design with performance design results. If there is no compliance then the process must be repeated and if the results of the design was appropriate, the design could be used.

The results of the analysis, discussion, and evaluation of design requirements that have been description produce smart boat with a length of 9 meters, 2.3 meters width, 1.2 meters high and 0.53 meters loaded with passenger capacity 4 people crew including the skipper and the 10 children in when docked, and use the 200 HP outboard engine.

Key word : smart car, smart boat, Central Kalimantan