THE DEVELOPMENT OF BUDGET ESTIMATION MODEL FOR CONTROLLING THE SHIPBUILDING COST

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ABSTRACT

The shipbuilding project planning requires a high accuracy to reduce the project completion delays and cost overruns. One of the planning stage is budget estimation. Budget estimation is approximation of the cost of an activity for controlling the shipbuilding cost within a specified period.

The aim of the research is to get new model of budget estimation for controlling the shipbuilding cost. This study begins with SWOT analysis and develop the existing models with the approach Activity-Based Budgeting (ABB) and Earned Value Analysis (EVA). This approach was chosen because of the suitability of a detailed cost breakdown structure based on Product Work Breakdown Structure (PWBS).

The result of simulation model provides detailed information of budget and project performance based on shipbuilding activity. The information are collected on the database management system (DBMS) can be used as a reference in strategic decision making for the next project. The early warning report is available on model that alerts management to the realities of performance project. It used by the project management team to control the shipbuilding cost. So that, cost overruns and the project completion delays can be prevented. The model are expected to help the shipbuilding industry in Indonesia to make the budget estimation process and cost control become more easily, effectively and efficiently.

Keyword : budget estimation, existing, SWOT, ABB, EVA, PWBS, DBMS
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