

ABSTRACT

ANALYSIS FACTOR DESIGN METHOD AND BUILD AT SECTION PROJECT 1 ROAD TOLL SEMARANG - BATANG

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Indonesia needs many highways to accommodate the diverse activities of its population. The addition of infrastructure in the form of highways and roads is very important for the people of Indonesia. The aim of highways development is to facilitate traffic in developing regions. The construction of highways is infrastructure work that is mostly done by the government. The construction of the Semarang - Batang Toll highways is a major national project that is expected to facilitate the distribution of goods and services and reduce the volume of traffic on the Pantura national highway.s

The purpose of this study was to find the dominant factors in the DB, Cost and Time methods that significantly affected the success of toll road construction projects.

This research was carried out on the Semarang - Batang Tol Road Section I Project. This research is quantitative research. Data was taken using a questionnaire using a Likert with scale 4. Research respondents were service users, consultants and contractors. Statistical tests are performed using SPSS 20.0 software. Based on the results of the instrument validity test, 83 questions were valid and reliable. The analysis carried out was correlation analysis and factor analysis.s

Conclusion of the study: 1) Variable DB method has a very strong positive correlation with the variable Cost; 2) DB Method factor is the most influential variable on Project Success compared to Cost and Time variables; 3) factors The client's attention to risk transfer is the most influential factor on project success in the DB Method Variable group; 4) the factors of Consultants, Contractors, Design Parameters and Information are factors that influence the success of the project in the Cost Variable group; and 5) Change factors are the most influential factors in the success of the project in the Time group.

Keywords : Design-Build Method, Cost, Time, Highway