

# Peningkatan constructability tahap perencanaan konsep dan pengaruhnya terhadap kinerja biaya pada proyek konstruksi di Indonesia = Constructability improvement during conceptual planning phase and its impact in improving construction project cost performance in Indonesia

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## Abstrak

<i>In order to increase the quality of Project implementation much research will need to be carried out in Indonesia and abroad. In 1960 the Government of UK identified many construction projects that were not able to increase the communication and coordination between the design and construction phase. The concept of build ability arose in 1979 in order to enhance the design process by inputting the construction method during the design phase. The Construction Industry Research Information Association (CIRIA) has defined build ability as follows: "the extent to which the design of a building facilitates ease of construction, subject to overall requirements for the completed building?.

Project (CICE) researched into the increasing of quality, efficiency, productivity and cost effectiveness in the construction projects. The research estimates that constructability improvements saved at least 10-20 times the cost of the constructability effort. The Construction Industry Institute, Austin, USA in 1986 defined constructability as "the optimum use of construction knowledge and experience in planning, engineering, procurement and field operations to achieve overall project objectives?.

The research, which is a partial requirement for a Master degree in construction management at the University of Indonesia, was aimed at understanding the coordinating position and influence of the owner of projects for improving constructability during conceptual planning phase.

The research proceeded to study into the impact of owner contribution for improving constructability during conceptual planning phase. In order to further understand such owner contribution, its impact on project construction cost performance was measured and quantified.

Data of projects constructed in Indonesia were then obtained through questionnaires from official owner representatives of companies in Jakarta. Variables in the questionnaire which represented owner quality contribution were then correlated to the same project cost performance variable.

In depth analysis of the correlation were then carried out to build regression models of the relationship between quality of owner contribution during conceptual planning phase to project cost performance.

The statistical including validation test needs were also carried out in order to provide the guidelines for increasing knowledge in constructability for future projects in Indonesia.</i>