

## Peran kontraktor dalam peningkatan constructability pada sistem pelaksanaan design-construct = The impact of contractor's role in improving the constructability of the design-construct project

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### Abstrak

*The Impact of Contractor's Role in Improving the Constructability of the Design-Construct Project* In 1982 The Business Roundtable's Construction Industry Cost Effectiveness (LICE) identify one important aspect is that construction too often is relegated to operate as production function separated from financial planning, scheduling, and engineering or architectural design. The involvement of construction experts is delayed until the design is so far along that changes would be so disruptive as to increase cost. The traditional construction contracting method made this division even further. The construction contractor would only be engaged in the project after the designer completed their design.

By separate design and construction, opportunities to reduce project costs and schedules by using existing and new construction technology are lost. Significant savings in both the costs and time required to complete the project can be accrued from integration of construction expertise into all phases of project. The Construction Industry Institute's (CII) Task Force defines this term as Constructability, which is the optimum integration of construction knowledge and experience in planning, engineering, procurement, and field operations to achieve overall project objectives.

This thesis study the role of contractor's in improving the constructability of the design-construct project which leads to an improving project cost performance of construction project in Indonesia. A questionnaire survey was distributed to projects contractor's in Jakarta area. The data obtained was analyzed quantitatively to find the correlation and to make a regression between the role contractor's in improving the constructability of the design-construct project and the performance of construction project's cost.

The result of this research show a positive, linear correlation between the interface of contractor's in improving the constructability of the design-construct and cost performance of the project. The main variables are: pro-actively involved in developing project plans and plan the sequence of field task to improve productivity.