

Abstract

The use of large concrete reinforcement in construction activity will increase the risk of rebars waste. This condition occurred by differentiation between length of requirement rebars and length of production rebars. Waste that caused by the use of concrete reinforcement is about 5%-15% and it will be increasing the budget of construction. By development in construction technology, there is a new system for reduce the use of reinforcement and waste by using mechanical joint for reinforcement connections. Value analysis study is conducted for mechanical joint and conventional joint connection of reinforcement concrete to prove that this system can reduce the use of reinforcement and waste in Indonesia. Objects for value analysis are mat foundation, corewall, column, beam and slab from menara Kompas project. The technique of value analysis start with bar bending schedule analysis, execution time, and budget of each connection. The method of value analysis are sample T-chart, force decision, matrix format and it combine with budget analysis, execution time analysis, interviews and questioner. From this analysis, it can be conclude that mechanical joint connection for mat foundation, corewall, column, beam will reduce the usage and waste of reinforcement. But reinforcement of slab is more efektif by using conventional connection than using mechanical connection.

Key word : value analysis, reinforcement concrete connection