CONSTRUCTION PROJECT PLANNING AND CONTROL
USING CRITICAL CHAIN PROJECT MANAGEMENT AND
LEAN CONSTRUCTION TO MINIMIZE WASTE
(CASE STUDY : BPPKB BUILDING CONSTRUCTION PHASE 2)

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Abstrak
Construction company have relation with other companies, whether the other company supply the resources or hiring construction company to build their plant. Construction company have many problems to be solved. One of the impact of the problem is late delivery project for its customer. The problem may be caused by non value added activity that indicates wastes. So, eliminating waste is one of problem solving in construction company. If it about waste, then there is philosophical approach that called Lean Construction. In this research, the author use tools such as Big Picture Mapping, Root Cause Analysis and project risk management.

In practice, project need scheduling to ensure the workflow. The problem is, not all scheduling can accommodate or reduce the impact of uncertainty. This paper try to plan the scheduling for construction project using Critical Chain Project Management which avoid the student’s syndrome and controlling project with its buffer management so it can be done on time.

The results of this research is, there still non value added activity that indicates wastes in project execution. Waste generate risks for contractor. From that risks, the company needs mitigation solution to minimize the impact and reduce probability of its occurrence. And implementation of Critical Chain Project Management scheduling indicates that the project duration can be reduced considering it resources and project buffer consumption. Key word: Lean Construction, RCA, Project Risk Management
Waste, Critical Chain Project Management.