

Chaiyasit Narapirom 2014: A Study of Productivity in Concrete Structure Works for High-Rise Building Construction Projects. Master of Engineering (Civil Engineering), Major Field: Civil Engineering, Department of Civil Engineering. Thesis Advisor: Associate Professor Santi Chinanuwatwon, Ph.D. 164 pages.

Nowadays, one of the main problems that usually found in construction is the delayed plan that may cause from workers, working plans and working environments, etc. The objective of this research is to study the productivity of labor force and to find the factors that affect to the productivity of the reinforced concrete structure for high-rise building construction projects. The research starts from reviewing textbooks, academic papers to develop research methodology. The study employed the productivity rating method which is random counting of workers' works. The works can be classified into 3 categories; effective work, essential contributory work and ineffective work. The researcher collected the data by observations, recorded the videos and interviewed project managers, project engineers and construction team from three projects. Each project has 4,560 samples which consist of pouring concretes, formworks and reinforcing steel works for columns, walls, slabs and stairs in order to obtain factors that impact to productivity of construction work for each activity. The result showed that the labor utilization factors and the productivity of each type of works is different depend on various factors such as working methods, applied technology and planning of working procedures, the difficulty of tasks and the availability of materials and tools used in construction. The result of the study can be used as a guideline to improve productivity of construction works, as a result, increase efficiency of construction works.

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