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title

THE DETERMINATION OF LABOUR CONSTANT (PRODUCTIVITY INDEX) FOR CONSTRUCTION PROCESS - FORMWORK -

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ABSTRACT

The need for a standardized approach for measuring construction task-level labour productivity has long been recognized. Furthermore, it is known that before the factors affecting productivity can be studied, there needs to be a large data base containing information for many projects constructed under a variety of conditions.

The objective of this research is to determine the labour constant (productivity index) in construction project and to predict factors which affect labour productivity. Data from three sites has been collected. The measurement task is done daily at the end of the work shift at least 20 days for each construction project.

The focus of collecting the data collection effort is directed to measure the works on formwork application at crew level. Every works which involved slabs, columns and beams will be recorded. Other things that must be recorded to identify factors which affect productivity are:

* site and location of storage areas
* crew size & gang composition
* location of equipment/tools
* method of material movement
* length of workday
* weather,etc.