SUMMARY

__HADIATMA A__, Department of Civil Engineering, Faculty of Engineering UniversitasBrawijaya, September 2017, Cost And Time Optimization In The Implementation Of Granite Tile With Time Study Method, Supervisor: Eko Andi Suryo and Hamzah Hasyim.

Background of this study is the existence of several things can be a delay in completion of project delays. Causes include changes in design, weather, and lack of supplies of materials or equipment, and other errors. Project delays can be anticipated by accelerating the implementation.

The object of this research is 45 type house with area of 32 m2. This study uses the method of time study by comparing the results of existing work with optimization work that adds the number of artisans are: 2 workers 1 worker, 2 workers 2 workers, 3 workers 2 workers. With direct observation in the field. The stages include: breakdown of each job, time recording, calculating Standard Time, Productivity, total time and cost.

Results of the four methods:

pekerjaan	produktivitas	waktu (hari)	biaya
1 handyman 1 workman	3,53 granite/manhour	3	Rp 620.000
2 handyman 1 workman	5,32 granite/manhour	5	Rp 600.000
2 handyman 2 workman	5,42 granite /manhour	5	Rp 755.000
3 handyman 2 workman	5,53 granite/manhour	5	Rp 980.000

Keywords: *granite tile, Optimization, productivity, time study*