TIME AND COST COMPARATION OF PRECAST AND CAST IN-SITU METHODS AT FACULTY OF AGRICULTURAL TECHNOLOGI BRAWIJAYA UNIVERSITY, MALANG

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ABSTRACTION:

The Faculty of Agricultural Technology Brawijaya University’s building is the object for this final project. The project used cast in-situ method to finish the building. Then, for the comparing is used precast method. In this case, it is using half slab precast for the plate and U beam precast. The comparation of both method is based on the time and cost from the project implementation.

In this final project, we use heavy equipment such as, mixer truck, concrete bucket, and tower crane to make the project implementation time faster. After analyzing the time and cost of implementation, the result shows that the time required for precast method are 106 days of work, while the implementation for cast in-situ method takes more time, it’s 128 days of work overall. In cost result, precast method needs Rp 5.074.176.112 while cast
in-situ method needs Rp 5,276,058,898. The different between precast and cast in-situ method is Rp. 201,882,786.

Key Word: comparison, time, cost, precast, cast in-situ.