ABSTRACT

One example of construction development recently is apartment building. This building needs technology innovation for reduce the production cost and also finish the building as soon as possible. One of the innovation is formwork rotation. The purpose of this research is to know the best alternative of formwork rotation in order to produce the best period and cost for build bale hinggil surabaya apartement project construction.

This research was doing by comparing some of formwork rotation alternatives and also the formwork materials such as multiplex phenolic and non phenolic based on time and cost aspect. The method that used for this research is semi system formwork by using hollow iron with 1 floor, 1,5 floors and 2 floors formwork rotation which divided into 4 and 5 zones.

As the result, based cost and time aspect of formwork which based on some of formwork rotation alternatives, it can be known that the best time (period) and cost for floor plate formwork and beam bale hinggil surabaya apartement project with semi system formwork is the 1,5 floors formwork rotation by dividing 4 zones with cost amount Rp. 3.282.228.312,00 and duration is 159 days

Keyword: Bale hinggil, Cost, Formwork Rotation, Time (period)