ABSTRACT

A construction project often occurs outside the plan and is beyond the contractor's control as well as the delay in project work. Many factors are the cause of project delays such as lack of workforce, bad weather and errors in planners. For this reason, it is necessary to have a method that is used as an alternative that is used to support the speedy completion of the construction project. Alternatives that can be done such as shift use, the addition of the number of workers and other faster construction methods.

In this study, the duration of the acceleration analysis of the completion of the project to be carried out on the Sabhara Paingan Flats project is by using an alternative shift system and increasing the number of workers in order to find out more economical and more efficient project costs by using the two alternatives mentioned above.

The results of the analysis carried out on the Sabhara Paingan Flats project, obtained a total cost budget after accelerating with alternative shifts of Rp 874,296,642.68 which is more expensive than the project costs for normal conditions and the duration obtained is 39 days which is 22 days faster than normal duration is 61 days. Whereas the alternative system for increasing the number of workers obtained a total cost of Rp 855,817,244.64 but the duration obtained was 45 days or only decreased by 16 days from the original duration of 61 days. From this study it was concluded that each alternative has advantages and disadvantages of each - both in terms of cost and time because the low cost has a long duration while the expensive cost has a shorter duration

Keywords: Crashing Method, , Direct and Direct Cost, Increase in Number of Workers,Project Acceleration Method