

ABSTRACT

Project Duration Acceleration Plan Analysis

Romadanarto Pratama¹⁾, Galih Wulandari Subagyo²⁾, Frederik Josep Putuhena²⁾

1) Student of Civil Engineering Department, Universitas Pembangunan Jaya

2) Lecturer of Civil Engineering Department, Universitas Pembangunan Jaya

Every construction project implementation process has project control which can be directly related to time and cost. In the implementation of the project there can be discrepancies with planning, one of which has an impact on scheduling. The case of delay in project scheduling occurred in the implementation of the construction of type 45 houses in Sahira Regency Cirebon. Cases of delay can be overcome by the acceleration method. There are several acceleration alternatives can be used in this research, namely the addition of manpower by 40%, the addition of working hours or overtime hours by 3 hours in one day, and the implementation of a work shift system of 2 shifts in one day. This study aims to find and find out the effective and efficient alternative value of acceleration from three alternative variants of acceleration. Based on the results of the calculation of alternative analysis, the acceleration of project costs for the addition of alternative workers by 40% obtained the project duration of 396 days and the total construction costs of Rp. 10,243,421,562.60, for alternative the addition of working hours or 3 hours of overtime in one day obtained a duration of 468 days with a total development cost of 12,027,425,922.30, for alternative implementation of the work shift system as many as 2 shifts in one day obtained a duration of 366 days with a total construction cost of Rp. 8,765,371,577.59. Therefore, from the results of these calculations, the alternative implementation of the work shift system becomes the most effective and efficient.

Keyword : Project Control, Crashing Method, Project Delay, Accelerate Alternative, Labor Addition, Overtime Working Hours, dan Implementation of Work Shift

Libraries : 48

Publication Years : 1984 - 2020