

ABSTRACT

PT. XYZ is a company engaged in telecommunications and network services in the territory of Indonesia. Project PT.XYZ is FTTH located in the targeted STO Sumedang to start on 6 May - 28 Juni 2019 and have a total work time of 43 days. The progress that has been completed is different from the target of the project plan. The difference in progress is due to the poor monitoring and controlling phase during the project, which is stated in the planning curve. Due to the actual differences and planning of the STO project Sumedang was identified, the project performance was carried out using the Earn Value Management (EVM) approach. Through the Earn Value approach, the project is carried out earned value analysis, variance analysis, performance index analysis. The results of EVM calculations will know the progress of each job. Then a CPM or critical path method is performed to find the critical path of each network of work that will accelerate the project by adding hours of work using the alternative analysis method. Alternative analysis method is A technique used to evaluate identified options in order to select the options or approaches to use to execute and perform the work of the project. Based on the analysis by the alternative analysis method with 8 hours of work per day acceleration of 10% will increase work hours by 53 minutes per day or 1 hour per day, an acceleration of 20% increases working hours by 2 hours per day, an acceleration of 30% increases working hours by 3.43 hours acceleration, 40% acceleration increases working hours by 5.3 hours acceleration, and a 50% acceleration increases working hours by 8 working hours per day.

Keyword: *FTTH, EVM, CPM, alternative analysis, S-Curve*