

ABSTRACT

PT ABC is a company engaged in providing telecommunications services in Indonesia. Through its subsidiary, PT XYZ, it provides access network installation services, network infrastructure development, Network Terminal Equipment (NTE) management, and access network operation and maintenance. This project is currently underway by building Shifting to the Front (STTF) in the village of Mekarmanik, Bandung, which took 90 working days and a project cost of IDR166,095,829. The initial method used to analyze project performance in terms of time and cost is earned by Earn Value Management (EVM). Until the end of the installation phase, the SPI value was 0.93 and the CPI was 1.15. After forecasting, it takes an additional 7 days with a total cost of IDR144,732,187. With the project implementation process experiencing delays, crashing is carried out in the installation phase and also by seeing the activities that are passing by the critical path. The crashing was carried out with two alternatives which are adding overtime hours and adding manpower using the TCTO method, considering LODR as an alternative to adding manpower. After calculating the additional hours of overtime, the duration of the project was reduced to 89 days with an additional cost of IDR578,193, whereas the calculation of additional labor resulted in a reduced duration of the project to 89 days with an additional fee of IDR300,000.

Keywords: EVM, CPM, TCTO, LODR