

ABSTRACT

PT. XYZ is a company that engaged in telecommunications and network services in the Indonesian region. To spread telecommunications and network services PT. XYZ is assisted with a subsidiary, one of is PT. ABC. PT ABC is in charge as an agent of network construction, operation and maintenance. PT ABC is currently implementing the STTF (Shit To The Front) project, which is the project to add FTTH (Fiber to the Home) networks in areas that have the potential to have high customer demand. One of the STTF project construction sites is the Indra Prahasta II housing location. However, the project is currently experiencing work delays due to the Covid-19 disaster in Indonesia. Delays in project execution can result in potential prospects choosing another company that provides similar services. So to prevent this, the project schedule can be accelerated using the crashing method and TCTO (Time Cost Trade Off) analysis. The acceleration of this research will be carried out with alternatives for adding 3 hours, 2 hours, 1 hour and an alternative to increasing the number of workers. This project has a normal duration of work which is 55 working days with a total cost Rp. 604.124.460. The results obtained from data processing, on the alternative of adding 1 hour of overtime work the total duration becomes 54 working days with a total project cost of Rp. 605.734.138. In addition to 2 hours of overtime work, the total duration of the project can be shortened to 54 days with a total project cost of Rp. 606.803.619. And for the addition of 3 hours overtime the total duration can be shortened to 54 days with a total cost of Rp. 606.803.619. As for increasing the number of workers, the duration of project work can be shortened to 54 working days with a total project cost of Rp. 604.556.748.

Keywords: Project Scheduling, Acceleration Schedule, Crashing, Time Cost Trade Off, Adding Overtime Hours, Increasing Number of Workers