

ABSTRACT

PT.XYZ has a fiber optic cable network expansion project in Indonesia and one of the fiber optic network expansion projects or FTTH (fiber to the home) is located on Jalan Sukapura Bojongsoang, Bandung. However, the project experienced work delays due to the Covid-19 pandemic which delayed installation work in the field. This project has a normal duration of 40 days with a total cost of IDR 159,697,378. The Covid-19 pandemic resulted in the installation of installing poles and pulling cables not getting permission from local residents and unit leaders, and only being able to continue after being delayed for 3 days after negotiations by the parties concerned. The work delay resulted in delays in project work. To prevent this, the project schedule can be accelerated using the crashing method and the probability analysis of project completion using the CPM-PERT method. Accelerating the duration of this research will be carried out by increasing the number of workers by 3 people for the Jointing / Connecting feeder and ODP installation work, which was originally done by only 1 person. The results of implementing project acceleration in data processing show the FTTH project Jl. Sukapura can be completed in 35 days with a total cost that has not changed Rp. 159,697,378, this is because PT. XYZ has to pay the same budget, when it employs 1 person for 4 working days, and 4 people for 1 day of work. FTTH Project Jl. Sukapura was analyzed using the PERT-CPM method to determine the probability before and after the implementation of acceleration. Then the probability value prior to the implementation of the project acceleration is 40% with an expected time of 41 days, and the probability value after implementing the project acceleration is 87.7% with an expected time of 36 days.

Keywords: project scheduling, Schedule Acceleration, Crashing, Critical Path Method, Project Evaluation Review Technic, additional workforce.