

ABSTRACT

PT. XYZ is a subsidiary of PT. Telekomunikasi Indonesia, which provides services and network construction materials. This company has been carrying out a network building project since 2014. PT. XYZ in collaboration with PT. Putra Timur Jaya is in the process of completing this network construction project. This project is known as *Fiber To The Home* (FTTH) which is located in Karyawangi Village, West Bandung. At the time of work on the FTTH project, the project was late due to the covid-19 virus factor which caused the project not to be completed according to the actual schedule that had been determined. In general, the causes of delays in the project include material factors such as late arrivals and material damage. Human factors are caused by less than optimal supervision, lack of communication with workers, and job design errors. Machine factors are caused due to damaged equipment, method factors caused by not applying appropriate methods and environmental factors that occur due to blocked permits and the covid-19 virus factor in the project area. Every project has an impact on project development. The impact of the risk of experiencing project delays is seen in terms of time, cost and project quality. In overcoming this risk, an appropriate response is given to each identified risk. This study uses qualitative methods then processed using a qualitative risk matrix which is useful for classifying risks based on low, medium, and high categories. High and medium risk categories will be included in the priority risk list. The priority risk list will be processed using a tornado diagram which is used to measure the risk risk. The priority cost risks obtained from the qualitative risk matrix will be given contingency reserves against the time and cost of the project as an optimal risk response plan in avoiding major risk impacts. An appropriate response is also given to each identified risk. The output in this study is the updated risk register.

Keywords : *Fiber To The Home (FTTH), qualitative method, Contingency Reserve, Updated Risk Register*

