

ABSTRACT

PT. XYZ as the person in charge of the implementation of telecommunication infrastructure projects to support the connectivity needs of the community's internet network around STO Cipatat, West Bandung. In the work of this project there are obstacles that can be known using fishbone diagram in the form of environmental aspects in the form of late licensing process for seven days from the schedule that has been set, as a result resulted in the schedule that has been determined the progress of the implementation of the project still reaches 90% which should have been 100% completed, so it takes additional time to be able to complete it. Then, there is an aspect of the method, one of which is the stakeholder engagement method in addressing constraints from the environment aspect. In addition to these aspects, there is a man aspect in the form of lack of information that can be used to address obstacles that have the potential to occur, so that the constraints of delays in project implementation cannot be avoided. In the implementation of this project has not implemented risk management so that it is less able to respond to obstacles that can threaten project failure or opportunities that can provide benefits to the implementation of the project. To overcome this, risk analysis is needed as a lesson learn that can later be used as a reference in addressing any potential risks that can be an obstacle to other similar projects. In this Final Task, identification and risk assessment is carried out using qualitative risk assessment methods with aspects of assessment in the form of probability and impact on: schedule, quality, cost, and scope, then the results obtained are mapped using the probability impact matrix method so that the level / level of each risk is obtained. Furthermore, risk that goes into priority risk is carried out quantitative risk analysis using decision tree analysis methods to get the best decision from alternative decisions that have been determined, so as to help project team members in making optimal risk response strategies from various identified conditions can occur. The final process of this Final Task will produce a risk response plan document contained in the risk register update so that it can be used as lesson learned for the implementation of similar projects and can be a reference for project team members in addressing any risks that can potentially occur.

Keywords — telecommunication infrastructure project, qualitative risk analysis, quantitative risk analysis, risk register update, lesson learned