

ABSTRACT

The Optical Distribution Point (ODP) Installation Project located in the Bayangkara & Kirana Complex, Tanjungsari, is a fiber optic network expansion project owned by PT. XYZ. In projects, one of the factors that can influence the course of activities is the readiness / preparation of resources. In the implementation of this project it was found that the use of labor was fluctuating and additional workforce was also needed which resulted in an increase in the costs that had to be incurred for the wages of the labor force. The purpose of this research is to find out how to prepare the workforce needs so that fluctuating usage does not occur. Therefore in this study, it is necessary to use resource leveling methods to avoid fluctuations and additional costs for additional labor are needed. To do resource leveling, calculations are performed using the Precedence Diagram Method (PDM) to find out the network in this project. It is known that in the actual implementation of this project the use of a fluctuating workforce and the addition of a workforce of five workers was needed in the project implementation in the 3rd week so that after resource leveling the use of fluctuating and piled up labor can be minimized and there is no need for additional labor additions that can add to costs beyond the initial project planning.

Keywords: Labor, Fluctuating, Resource Leveling, Precedence Diagram Method.