ABSTRACT

RISK PREVENTION ANALYSIS IN TRANSMISSION LINE PROJECT IN PT REKADAYA ELEKTRIKA

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As a basic necessity, an electricity supply is essential for Indonesian society. In order to meet the demands of electricity supply in all regions of Indonesia, adequate facilities for generating electricity are required. One of them is a construction of transmission acting as a distributor of electricity from the generator to the substation. This study is to examine risks occurred during the construction of 150 kV transmission line. The aim of this study is to identify the risks found in the project of 150 kV transmission line. knowing the most dominant risk, analyzing prevention of these risk variables. The research method was carried out by conducting interviews / brainstorming with parties who had experience in handling 150 kV high voltage air duct projects, spreading questionnaires to experts who had experience in handling rigid air duct projects, obtaining literature data from various sources including data - Project data risks registering several similar projects. Data that has been obtained will be used using analysis. The results obtained from this research are four factors, namely contractual, engineering, procurement and construction in which there are 74 risk variables that have been validated by five experts. The results of data analysis from 74 risk variables there are four most dominant risk variables, namely land acquisition, re-check survey, minutes of land handover and stub material fabrication. Prevention of delays in land acquisition can be done by ensuring that land compensation has been received by the owner and the land is not a disputed. Prevention of variable delay recheck survey is by ensuring that personnel who will do the work have experience in similar projects. Prevention of delays in land handover documents is by making a timeframe on land acquisition so that if there is a delay, a location change can be done immediately. Prevention for the material delay variable stub is to choose a manufacturer with a production capacity the manufacturer is still able to carry out work in accordance with schedule

Keywords: Risk Management, Risk Identification, 150 kV transmission line