

ABSTRACT

The success of a construction project can be determined by the achievement of targets in terms of time, cost and quality. The data shows that there are still some construction projects carried out by Waskita Karya that experience delays in completing work and increasing costs. This risk can be reduced through risk mitigation strategies in construction projects. Risk mitigation has an important role in project control measures from the start in order to find out the causes of risk and how to handle them.

This study aims to determine the risk mitigation strategy in the Medan Station Building and Emplacement Development Project Phase II. The aspects studied include the project risk factors and the risk matrix. From this aspect, it is analyzed to take action on risk mitigation strategy decision making.

The phenomena in this study were explored using a case study method through a qualitative approach. Data collection techniques are interviews and documentation. The informants involved were 5 (five) core managerial level officials from PT. Waskita Karya (Persero) Tbk and 5 (five) core managerial level officials from PT. Rinenggo Ria Raya. Construction risk factors include, among others, internal, external and project risks. This study examines in more depth limited to project risks, which have a direct influence on the project on time, cost, quality, construction and technology.

The results showed that there were 43 relevant risk factors identified. From the results of this analysis, 11 risk factors with a very high level of risk were obtained, including delays in handing over the project to the owner, non-achievement of the contractor's equipment productivity plan, delays in land acquisition, delays in finalizing designs, increases in BK/PU, increases in material prices, waste material exceeds plans, the potential for extreme weather to hinder project implementation, there are existing utilities, buildings or other objects that require permits in terms of demolition in the work area. delays in fulfilling labor and work tools, carrying out work method innovations +.

Keywords: *risk, mitigation, project, construction*