RISK ANALYSIS TO DETERMINE THE CONTINGENCY COST ON THE CONSTRUCTION PROJECT OF SURABAYA-MOJOKERTO TOLL ROAD SECTION IB

ABSTRACT

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Risk is an event or condition that uncertain, which if it occur will make an impact at least one of project goal. including giving loss to the project. On the construction project, especially on the construction stage, there are high potential risks, because the stage is the most consuming energy, cost and time, and involves various party with a some resources, that condition potentially vulnerable to risks that can ultimately lead to failure project. So the efforts of risks handling are going to do with risk management. By representation of amount to risk impact on the unit costs, and submit it on the cost component that commonly said as contingency cost.

Large Estimation of contingency cost will cause swelling of the project budget, and small estimation will cause the loss of the project. Such as in one of construction project, Construction Project of Surabaya-Mojokerto (Sumo) Section IB. A project that undertaken by PT. Marga Nujyasumo Agung as a right holder of Toll Sumo operation and PT. Wijaya Karya as a main contractor. The Amount of contingency cost determined by estimator approximately 2% of the total project cost. While in some studies the range of contingency fee is 5% -25%.

Accordingly, this study will examine the amount of the contingency cost and the identification of risks in the construction of the project Sumo Toll Section IB. Research carried out by forming a risk management team consisting of the parties directly involved in the Toll project Sumo Section IB. Research methodology including perform risk identification, using the Delphi technique to obtain the relevant risk variable, then to obtain the risk variables that significantly influence the cost of the project performed a qualitative analysis based on the risks that have been identified by the QRA Sheet and categorize the level of significance using PC Matrix. And to obtain a contingent fee scale quantitative analysis using Expected Monetary Value, involving risk management team to determine the percentage of probability of risk expert judgment. The final results obtained by the amount of the contingency fee of 5% of the total cost of the project.

Keywords: Risk, Construction, Contingency Cost