

ANALISIS RISIKO KONSTRUKSI DENGAN METODE *SEVERITY INDEX* (SI) TERHADAP MATRIK PROBABILITAS DAMPAK STUDI KASUS : GEDUNG *STUDENT DORMITORY* UNIVERISTAS MUHAMMADIYAH YOGYAKARTA

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ABSTRAK

Pelaksanaan Proyek pada bidang jasa konstruksi dihadapkan dalam tiga kendala yaitu biaya, waktu dan mutu. Ketiga kendala ini dapat diartikan sebagai sasaran proyek, yang didefinisikan sebagai tepat biaya, tepat waktu, dan tepat mutu. Keberhasilan pelaksanaan suatu proyek yang dilaksanakan oleh perusahaan jasa konstruksi dikaitkan dengan sejauh mana ketiga sasaran tersebut dapat terpenuhi. Pada penelitian analisis risiko konstruksi pada gedung *student dormitory* universitas muhammadiyah yogyakarta menggunakan metode survey menggunakan kuisiner. Analisis dimulai dari identifikasi risiko melalui studi literature, kemudian dilakukan penyebaran kuisiner kepada responden terpilih yang terkait di tempat proyek tersebut. Selanjutnya analisis risiko dilakukan dengan cara mencari nilai yang mewakili terlebih dahulu yang berasal dari jawaban responden menggunakan metode *Severity Index* (SI). Penelitian ini bertujuan untuk mendapatkan faktor risiko dominan yang memiliki kemungkinan/bisa saja terjadi dan memiliki dampak negative. Setelah diketahui nilai yang mewakili jawaban responden, analisa dilanjutkan dengan menggunakan matriks Probabilitas dan Dampak, didapatkan risiko-risiko yang dominan dan tidak dominan, terdapat 13 risiko yang dominan dan 22 risiko yang tidak dominan. Setelah risiko-risiko tersebut diketahui, dilakukan respon risiko dengan melakukan wawancara dengan pihak responden terpilih untuk mengetahui respon yang harus diberikan untuk dapat meminimalisir atau meniadakan dampak dari risiko-risiko tersebut.

Kata Kunci: Analisis Risiko, *Severity Index* (SI), Matriks Probabilitas Dampak

**CONSTRUCTION RISK ANALYSIS USING SEVERITY INDEX (SI) METHOD ON
IMPACT PROBABILITY MATRIX
CASE STUDY: STUDENT DORMITORY BUILDING MUHAMMADIYAH
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Abstract

Project implementation in the construction services sector is faced with three constraints, namely cost, time and quality. These three constraints can be interpreted as project objectives, which are defined as being on cost, on time, and on quality. The successful implementation of a project carried out by a construction service company is related to the extent to which these three targets can be met. The research on the construction risk analysis research on the student dormitory building of Muhammadiyah University of Yogyakarta used a survey method using a questionnaire. The analysis began with risk identification through a literature study, then questionnaires were distributed to selected respondents who were related to the project site. Furthermore, risk analysis was carried out by finding the first representative value derived from the respondent's answer using the Severity Index (SI) method. This study aimed to obtain dominant risk factors that had the possibility / could occur and had a negative impact. After knowing the value that represents the respondent's answer, the analysis was continued by using the Probability and Impact matrix, obtained dominant and non-dominant risks. There were 13 dominant risks and 22 non-dominant risks. After these risks were identified, a risk response was carried out by conducting interviews with selected respondents to find out the responses that must be given to minimize or negate the impact of these risks.

Keywords: *Risk Analysis, Severity Index (SI), Impact Probability Matrix*

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