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Analysis Effect Severity and Occurrence Work
Accident Risk Detection With Failure Mode and
Effect Analysis Method on Continuing
Development Project for The Bali Tourism
Polytechnic Practice Hotel Building

I Ketut Sutapa¹, I Made Anom Santiana², I Gede Sastra Wibawa³

Abstract

Risk is inherent in every activity. The risk of accidents occurring in construction projects is high, but programs on work safety are not receiving much attention. In practice, there are many risks of accidents that cause damage to equipment or buildings and potentially detrimental effects on employees' strength after returning to work. K3 is an essential factor in work safety that can affect the risk of accidents if K3 does not work well. This study aims to determine the most dominant work accidents and the effect of severity and incidence on the detection of work accidents. Our method is to use one case study with direct observation of building construction projects. The data obtained were analyzed by FMEA (Failure Mode and Effect Analysis) method and multiple linear regression. FMEA is a structured procedure to identify and prevent as many failure modes as possible (Failure Mode). This method determines the RPN value of the most dominant work in the field. The most dominant risk of work accidents is found in floor plate work, with a total RPN value of 601.145. Severity and incidence simultaneously positively and significantly affect project cost overruns. The proportion of the effect of severity and incidence on cost overruns is 72%.

Keywords: Work Accidents Risk, Failure Mode, Effect Analysis, Building Projects.

Manuscript Number Assigned: NMB-1684

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The screenshot displays a journal article page. At the top, there is a navigation bar with links: Home / Archives / Vol 34 (2023) / Article / PDF. Below this, a toolbar contains options: Return to Article Details, Download, and Full-screen. The main content area shows the article title: "Analysis Effect Severity and Occurrence Work Accident Risk Detection With Failure Mode and Effect Analysis Method on Continuing Development Project for The Bali Tourism Polytechnic Practice Hotel Building". The authors listed are Ketut Sutapa¹, I Made Anom Santiana², and I Gede Sastra Wibawa³. An abstract box contains the text: "Risk is inherent in every activity. The risk of accidents occurring in construction projects is high, but programs on work safety are not receiving much attention. In practice, there are many risks of accidents that cause damage to equipment or buildings and potentially detrimental effects on employees' strength after returning to work. K3 is an essential factor in work safety that can". To the right of the article is a sidebar titled "Make a Submission" for the "Journal of Namibian Studies". It features a "Q2 History" badge, an "SJR 2022 0.14" metric with a "best quartile" label, and a "powered by scimagojr.com" logo. Below this are sections for "Latest publications" (listing items like "atom 1.0", "k3 2.0", "k3 1.0"), "Information" (with links for Readers, Authors, and Librarians), and "Language" (with a link for English).