

POLITEKNIK KESEHATAN KEMENKES TANJUNGPUR
JURUSAN KESEHATAN LINGKUNGAN

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**GAMBARAN BAHAYA DAN RISIKO K3 DENGAN METODE HIRADC
PADA PEMBANGUNAN POLDER/POMPA SUNTER C OLEH PT. NINDYA
KARYA DI JAKARTA UTARA TAHUN 2025**

ABSTRAK

Proyek pembangunan Polder/Pompa Sunter C merupakan salah satu upaya strategis dalam mengatasi permasalahan banjir melalui peningkatan kapasitas sistem drainase. Proyek ini melibatkan berbagai aktivitas konstruksi berisiko tinggi yang berpotensi menimbulkan kecelakaan kerja dan gangguan kesehatan. Penelitian ini bertujuan untuk mengidentifikasi bahaya, menilai tingkat risiko, serta menentukan langkah pengendalian.

Metode HIRADC (*Hazard Identification, Risk Assessment, and Determining Control*) meliputi identifikasi sistematis terhadap potensi bahaya di lokasi proyek, penilaian risiko berdasarkan dampak dan probabilitas, serta penyusunan rekomendasi pengendalian yang sesuai. Penelitian ini bersifat deskriptif untuk menggambarkan bahaya dan risiko K3, berlokasi di proyek pembangunan polder/pompa Sunter C. Penelitian ini dilakukan pada bulan Januari - Mei tahun 2025. Data dikumpulkan melalui wawancara dan observasi serta informasi yang diperoleh langsung dari dokumen internal perusahaan.

Hasil penelitian menunjukkan bahwa penerapan metode HIRADC mampu mengidentifikasi secara akurat berbagai bahaya utama, seperti risiko jatuh, tertimpa material, paparan bahan kimia, dan masalah ergonomi. Penilaian risiko mengindikasikan sebagian besar aktivitas tergolong risiko sedang hingga tinggi, sehingga diperlukan pengendalian berupa penggunaan alat pelindung diri (APD), pelatihan K3, serta pemantauan rutin kondisi kerja. Implementasi metode HIRADC pada proyek ini terbukti meningkatkan budaya keselamatan dan kesehatan kerja, serta dapat dijadikan acuan bagi proyek konstruksi lainnya dalam mengelola risiko kerja secara efektif.

Kata kunci: HIRADC, Identifikasi Bahaya, K3, Penilaian Risiko, Pengendalian Risiko

Daftar bacaan: 25 (1970-2024)

POLITEKNIK KESEHATAN KEMENKES TANJUNGPUR
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Final Project Report, June 2025

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OVERVIEW OF OCCUPATIONAL HEALTH AND SAFETY HAZARDS AND RISKS USING THE HIRADC METHOD IN THE POLDER/PUMP CONSTRUCTION PROJECT SUNTER C BY PT. NINDYA KARYA IN NORTH JAKARTA, 2025

SUMMARY

The construction project of the Sunter C Polder/Pump by PT. Nindya Karya in North Jakarta in 2025 is a strategic effort to address flooding issues by improving the drainage system's capacity. This project involves various high-risk construction activities that have the potential to cause occupational accidents and health problems. This study aims to identify hazards, assess risk levels, and determine control measures using the HIRADC (Hazard Identification, Risk Assessment, and Determining Control) method.

The HIRADC (Hazard Identification, Risk Assessment, and Determining Control) method includes systematic identification of potential hazards at the project site, risk assessment based on impact and probability, and the preparation of appropriate control recommendations. This research is descriptive to describe the dangers and risks of K3, located in the Sunter C polder/pump construction project. This research was conducted in January - May 2025. Data is collected through interviews and observations as well as information obtained directly from the company's internal documents.

The results show that the application of the HIRADC method accurately identifies major hazards such as risks of falling, being struck by materials, chemical exposure, and ergonomic issues. Risk assessment indicates that most activities fall into moderate to high-risk categories, requiring controls such as the use of personal protective equipment (PPE), occupational safety training, and routine monitoring of working conditions. The implementation of the HIRADC method in this project has proven to enhance the occupational safety and health culture and can serve as a reference for other construction projects in effectively managing workplace risks.

Keywords: HIRADC, Hazard Identification, OHS, Risk Assessment, Risk Control

Reference: 25 (1970-2024)