ABSTRAK

EVALUASI PENERAPAN KESELAMATAN KERJA PADA KEGIATAN PENAMBANGAN ANDESIT PT HARMAK INDONESIA DI KULON PROGO

Oleh
Lindiana Rahmawati
NIM: 112220062
(Program Studi Sarjana Teknik Pertambangan)

Kegiatan penambangan andesit memiliki potensi bahaya yang dapat menyebabkan kecelakaan kerja sehingga diperlukan penerapan keselamatan dan kesehatan kerja (K3) yang efektif. PT Harmak Indonesia sebagai perusahaan pertambangan andesit menerapkan berbagai program K3 untuk mengendalikan risiko yang muncul selama kegiatan operasional. Penelitian ini bertujuan untuk menganalisis tingkat kecelakaan kerja, mengidentifikasi potensi bahaya dan tingkat risiko pada kegiatan penambangan, serta mengevaluasi penerapan program K3 di PT Harmak Indonesia. Metode penelitian yang digunakan meliputi observasi lapangan, wawancara, studi literatur, dan pengumpulan data perusahaan. Analisis tingkat kecelakaan kerja dilakukan menggunakan metode *Frequency Rate* (FR) dan *Severity Rate* (SR), sedangkan identifikasi bahaya dan penilaian risiko dilakukan menggunakan metode *Hazard Identification and Risk Assessment* (HIRA). Evaluasi program K3 dilakukan dengan membandingkan pelaksanaan program di lapangan terhadap ketentuan yang berlaku. Hasil penelitian menunjukkan bahwa terdapat 17 potensi risiko pada kegiatan pembongkaran, pemuatan, dan pengangkutan material. Sebelum dilakukan pengendalian, risiko terdiri atas 8 risiko tinggi (47,06%), 8 risiko sedang (47,06%), dan 1 risiko rendah (5,88%). Setelah penerapan pengendalian, seluruh risiko mengalami penurunan menjadi kategori sedang dan rendah. Program K3 yang diterapkan perusahaan meliputi penggunaan alat pelindung diri, dan *safety talk* secara umum belum berjalan dengan baik. Menjadikan peningkatan pengawasan terhadap kepatuhan penggunaan APD dan konsistensi pelaksanaan program K3 masih diperlukan untuk meminimalkan risiko kecelakaan kerja.

Kata kunci: keselamatan kerja, HIRA, penilaian risiko, pertambangan andesit, program K3.

ABSTRACT

EVALUATION OF OCCUPATIONAL SAFETY IMPLEMENTATION IN ANDESITE MINING ACTIVITIES AT PT HARMAK INDONESIA, KULON PROGO

By
Lindiana Rahmawati
NIM: 112220062
(*Mining Engineering Undergraduated Program*)

Occupational safety and health (OSH) is an essential aspect of mining operations due to the high potential for workplace accidents arising from unsafe conditions and unsafe actions. PT Harmak Indonesia, an andesite mining company operating in Kokap District, Kulon Progo Regency, implements various safety programs to minimize occupational risks. This study aimed to analyze the occupational accident rate, identify potential hazards and risk levels in mining activities, and evaluate the implementation of OSH programs at PT Harmak Indonesia. The research employed field observations, interviews, literature reviews, and the collection of primary and secondary data. Occupational accident rates were analyzed using the Frequency Rate (FR) and Severity Rate (SR) methods, while hazard identification and risk assessment were conducted using the Hazard Identification and Risk Assessment (HIRA) method. The evaluation of OSH programs was carried out by comparing field implementation with applicable mining safety regulations. The results of the study identified 17 potential hazards in the material excavation, loading, and hauling activities. Before the implementation of control measures, the risks consisted of 8 high-risk hazards (47.06%), 8 medium-risk hazards (47.06%), and 1 low-risk hazard (5.88%). After the implementation of the control measures, all identified risks were reduced to medium and low-risk categories. The occupational health and safety (OHS) programs implemented by the company include the use of personal protective equipment (PPE) and safety talks; however, their implementation has generally not been effective. Therefore, improved supervision of PPE compliance and more consistent implementation of OHS programs are still required to minimize the risk of workplace accidents.

*Keywords**:** occupational safety and health, HIRA, risk assessment, andesite mining, OSH program.*