

## ABSTRAK

Kesehatan dan keselamatan kerja adalah upaya yang dilakukan untuk menjamin keselamatan dan kesehatan pekerja dari kecelakaan dan penyakit akibat kerja yang telah diatur oleh undang-undang. Aktivitas pengangkutan merupakan kegiatan utama PT.Total Optima Prakarsa. Proses pengangkutan terdiri dari 8 aktivitas pengangkutan yaitu dimulai dari parkir menuju *loading point*, antri di *loading point*, proses *loading* bahan galian, perjalanan menuju *dumping*, antri di area *dumping*, perjalanan menuju *stock pile*, antri di *stock pile*, kemudian kembali lagi ke parkir.

Metode yang dipakai dalam penelitian ini adalah metode *Hazard Identification Risk Assessment and Risk Control (HIRARC)*. Metode *HIRARC* meliputi identifikasi bahaya, penilaian risiko dan pengendalian risiko, dengan menggunakan parameter *Likelihood* (Kemungkinan), *Severity* (Keparahan) serta diaplikasikan menggunakan *Risk Matrik Level* (tabel tingkat risiko).

Hasil dari penelitian ini adalah tingkat risiko kategori *low* terdapat 8 potensi bahaya risiko yang ditemukan yaitu 33,3% dari 24 potensi bahaya dan risiko. Contoh risiko yaitu *dump truck* tergelincir dan unit bersenggolan Tingkat risiko kategori *medium*, terdapat 8 potensi bahaya dan risiko, 33,3% dari 24 potensi bahaya dan risiko. Contoh risiko yaitu *dump truck* terguling dan suspensi alat rusak, Tingkat risiko kategori *high*, terdapat 8 potensi bahaya dan risiko yaitu 33,3% dari 24 potensi bahaya dan risiko. Contoh risiko yaitu gangguan pernapasan/penglihatan, unit *dump truck* terperosok ke mesin *crusher*, unit *dump truck* tergelincir. Rekomendasi upaya pengendalian risiko untuk meminimalisir kecelakaan yang terjadi dapat dilakukan dengan cara substitusi, *administrative control*, *engineering control*, dan alat pelindung diri (APD).

**Kata Kunci :** HIRARC, Keselamatan dan Kesehatan Kerja, Pengendalian Risiko

## **ABSTRACT**

*Occupational health and safety is an effort made to ensure the safety and health of workers from accidents and occupational diseases that have been regulated by law. Transportation activity is the main activity of PT.Total Optima Prakarsa. The transportation process consists of 8 transportation activities, namely starting from the parking lot to the loading point, queuing at the loading point, the process of loading minerals, traveling to dumping, queuing in the dumping area, traveling to the stock pile, queuing at the stock pile, then returning to the parking lot.*

*The method used in this study is the Hazard Identification Risk Assessment and Risk Control (HIRARC) method. The HIRARC method includes hazard identification, risk assessment and risk control, using the Likelihood (Probability), Severity parameters and is applied using the Risk Matrix Level.*

*The results of this study are the level of risk in the low category, there are 8 potential hazards and risks found, namely 33,3% of the 24 potential hazards and risks. Examples of risk are dump truck slipping and the unit colliding. The risk level is in the medium category, there are 8 potential hazards and risks, 33,3% of the 24 potential hazards and risks. Examples of risks are the dump truck overturned and the suspension of the equipment was damaged. The level of risk is in the high category, there are 8 potential hazards and risks, namely 33,3% of the 24 potential hazards and risks. Examples of risks are respiratory/visual disturbances, the dump truck unit fell into the crusher machine, the dump truck unit slipped. Recommendations for risk control efforts to minimize accidents that occur can be done by substitution, administrative control, engineering control, and personal protective equipment (PPE).*

**Keywords:** *HIRARC, Occupational Safety and Health, Risk Control*