ABSTRACT

Auaradha Shukura Muji: Evaluasi Hasil Peledakan pada Pembongkaran Tanah Penutup menggunakan Metode TOPSIS di PT Pamapersada Nusantara *Jobsite* TOPB Kalimantan Tengah

Blasting is an important operations in mining. The explosion carried out by PT Pamapersada Nusantara Jobsite TOPB was an activity involving ANFO explosives. The improper selection of blasting geometry will create a problem with blasting results, such as rock fragmentation with a lot of boulders, flyrock, high ground vibrations, high air blasts, long digging time and high powder factor values. Based on the problems that arise, choosing the right blasting geometry will certainly be needed.

Selecting the right blasting geometry can be done using the Multi Criteria

Decision Making (MCDM). TOPSIS is one method that can be used in decision making. In determining the right geometry using this TOPSIS, safety and technical parameters are taken into consideration.

Finally, based on evaluations carried out using TOPSIS, the success of blasting carried out by PT Pamapersada Nusantara Jobsite TOPB was in class II with a value of 0,298 and included in the category of good conditions and blasting geometry with burden of 6.5 m, spacing of 7 .5 m , drill hole diameter of 20 cm, subdrill of 0.5 m, hole depth of7.25 m and stemming of 4.3 m has been presented as the most suitable blasting geometry for PT Pamapersada Nusantara Jobsite TOPB.

Keywords: Blasting, Blasting Geometry, Multi Criteria Decision Making

(MCDM), Overburden, TOPSIS

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