

ABSTRACT

PT. Mitra Indah Lestari (MIL) is a national private company engaged in coal mining village which is located in the region of the river free, sub Samboja, Kertanegara Kutai district, East Kalimantan. The location was in the pit 56. Mining method used is the method Stripping Mining, and stripping method is a method of backfilling.

PT. MIL set a production target of land cover (overburden) 140.000 BCM / month. The process of mining overburden material unloading tool uses 1 unit of Doosan 500 LCV excavator serving 4 units of Dump Truck Terex TR 50 in pit 56 a distance of 2.5 km to disposal.

The problems that occur are not fulfilled in the pit production targets 56. current production resulting from the combination of 114,730.68 BCM working / month. Not achieving production targets in the pit 56 because a lot of work time is wasted because of the good work barriers constraints which could be avoided or unavoidable. With the barriers - the barriers will reduce the effective working time resulting in lower work efficiency.

Efforts to increase the production can be done by increasing the effective working time and increase the amount of bulk. To pit 56, with the bulk of the increase in the number 8 to 10, production increased from 116,301.51 BCM / month to 140,898.02 BCM / month.

With the increased production, the factor compatibility tool (match factor) changed from 0.75 to 0.90.

To be able to achieve production targets should be oversight of assigned working hours in order to avoid obstacles - obstacles that occur during the work, and provide education and training for operators in the hope of improving their knowledge and skills so that the operator can know the result of the operation of mechanical equipment that is not true.