

RINGKASAN

PT. Nuasacipta Coal Investment merupakan selaku pemegang Perjanjian Karya Perusahaan Pertambangan Batubara atau PKP2B di Samarinda , Prov. Kalimantan Timur. Pada kegiatan pertambangan, salah satu hal yang perlu diperhatikan ialah pembongkaran overburden pada pit penambangan.

Masalah yang dihadapi saat ini adalah belum tercapainya produksi alat muat dan alat angkut untuk pengupasan overburden pada pit melon D sebesar 180 BCM/jam. Beberapa factor yang mempengaruhi belum tercapainya produksi alat muat dan alat angkut pada pengupasan overburden adalah cycle time alat muat dan alat angkut juga waktu efektif yang berlaku. Berdasarkan pengamatan kondisi kerja aktual, faktor yang menyebabkan belum tercapainya produksi seperti kurangnya efisiensi jam kerja, waktu edar dari alat muat dan alat angkut dan kondisi jalan.

Metode evaluasi yang dilakukan yaitu dengan cara menghitung waktu edar alat muat kobelco SK 480 LC dan alat angkut *articulated dumptruck* Volvo A40F juga waktu kerja efektif. Untuk alat muat kobelco SK 480 LC mempunyai waktu edar selama 0,38 menit dalam sekali pemuatan overburden. Untuk alat angkut articuler dumptruck Volvo A40F mempunyai waktu edar 5,52 menit dalam sekali pengangkutan overburden ke dumping area. Kondisi jalan lurus mempunyai lebar rata-rata sebesar 7 meter, tikungan mempunya lebar rata-rata 20 meter. Produksi alat muat kobelco SK480 LC sebesar 158,99 BCM/jam dan alat angkut articulated dumptruck Volvo A40F sebesar 162,96 BCM/jam, dimana ini belum memenuhi targer produksi overburden 180 BCM/jam.

Setelah di lakukannya analisis, produksi alat muat kobelco SK 480 LC sebesar 158,99 BCM/jam menjadi 189,14 BCM/jam dengan perbaikan waktu edar juga waktu kerja efektif. Alat angkut articulated Volvo A40F yang sebelumnya mempunyai produksi 162,96 BCM/jam menjadi 181,50 BCM/jam dengan perbaikan waktu edar juga waktu kerja efektif. Sehingga produksi alat muat dan alat angkut dapat terpenuhi sebesar 180 BCM/jam pada bulan Novermber.

ABSTRACT

PT. Nuasacipta Coal Investment is the holder of a Coal Mining Company Work Agreement or PKP2B in Samarinda, Prov. East Kalimantan. In mining activities, one thing that needs to be considered is the dismantling of the overburden in the mining pit.

The problem currently being faced is that the production of loading equipment and transportation equipment for overburden stripping in pit melon D has not been achieved by 180 BCM/hour. Several factors that influence the unachieved production of loading equipment and transportation equipment in overburden stripping are cycle time of loading equipment and conveyance and haul road conditions. Based on the observation of actual working conditions, the factors that cause production not to be achieved are the lack of efficiency in working hours, the circulation time of loading and conveying equipment, and road conditions.

The evaluation method was carried out by calculating the circulation time of the SK 480 LC Kobelco loading tool and the Volvo A40F articulated dump truck against road conditions in pit melon D. For the SK 480 LC Kobelco loading tool, has a circulation time of 0.38 minutes in one single loading of overburden. . The Volvo A40F dump truck articulated conveyance has a circulation time of 5.52 minutes in one single transport of overburden to the dumping area. Straight road conditions have an average width of 7 meters, bends have an average width of 20 meters. Production of Kobelco SK480 LC loading equipment is 158.99 BCM/hour and Volvo A40F articulated dump truck is 162.96 BCM/hour, which has not met the overburden production target of 180 BCM/hour.

After the analysis was carried out, the production of Kobelco SK 480 LC loading equipment was 158.99 BCM/hour to 189.14 BCM/hour with improvement in circulation time as well as effective working time. The Volvo A40F articulated conveyance which previously had a production of 162.96 BCM/hour became 181.50 BCM/hour with improved circulation times as well as effective working time. So that the production of loading equipment and transportation equipment can be fulfilled by 180 BCM/hour in November.