

ABSTRACT

PT. Pamapersada Nusantara is one of coal mining contractor trusted by PT. Kideco Jaya Agung as the holder of the Coal Mining Concession Working Agreement or PKP2B in coal mining. PT. Kideco Jaya Agung located in Batu Sopang Sub-district Paser Regency, East Kalimantan Province. The study sites are in the pds SMD-2. The mining system applied is an open pit system.

PT. Pamapersada Nusantara set an overburden production target of 965 BCM / h in the SMD-2 pit. Mining process of overburden material using mechanical device 1 unit Hitachi EX2500-6 Excavator serving 7 units of Komatsu HD 785-7 Dump Truck for SMD-2 pit with distance 3.7 km to disposal. With the match factor of matching equipment and transportation equipment of 0.86

The problems that occur are the unmet fulfillment of production from the cargo and conveyance equipment so that the production targets have not been reached, especially in the SMD-2 pit. Current production capability is 913,154 BCM / h for SMD-2 pit. Not achieving production targets due to the large amount of wasted work time due to work barriers both avoidable obstacles and unavoidable obstacles. With these barriers will minimize effective working time causing low work efficiency.

Factors affecting overburden production, ie, the effective work time of loading and hauling tools, and the efficiency of loading and transport equipment.

Efforts to increase production can be done by increasing the effective time of work, work time is available so that its production increased from 913.154 BCM / hour to 972,516 BCM / hour.

To be able to achieve production objectives should be supervised on the work time that has been set to prevent barriers that occur during the work and the need for the standard calculation of time barriers so as to facilitate control.