

ABSTRACT

PT. Cipta Kridatama is a company which operates in mining service field where be located at Makarti Village, Marangkayu Sub-District, Kutai Kartanegara District, Kalimantan Timur Province. Mining System where used is open mining system.

Overburden mining target of production in the amount of 438.000BCM per month. The mining operation used 1 backhoe *Liebherr* unit, CE 134, R9350 type as unloading tools and used 7 *dump truck* caterpillar units. The calculation results of labor harmony factor (match factor) with working tool combine obtained value in the amount of 0,96 ($MF < 1$), that's has meaning is the production of conveyance lower than the production of trencher fit, so that there have time waiting 6 second. The distance of conveyance from mining location towards hoarding location is along 1,7 Km

The Problem occurred is has not been achieved target of production in the amount of 438.000 BCM per month from unloading tools and conveyance which are available. At this time, the capability production from mechanic tool in the amount of 416.857,2 BCM per month.

The efforts to increase production to overburden paring do to increase effective work time mode to do repaired to barriers that occur, so that working efficiency to trencher fit where be increases from 66,3% become 67,4 % and products increases from the previous in the amount of 435.451,2 BCM per month become 442.927,32 BCM per month. The working efficiency to conveyance increase from 68,2 % become 69,7 % and products increases from the previous in the amount of 429.024,36 BCM per month become 438.402,3 BCM per month