

ABSTRACT

PT. Trisula Kencana Sakti is one of the mining companies that running in coal mining production, which is located in Barito Timur District, Central Kalimantan Province. PT. Trisula Kencana Sakti currently sets a production target for 110,000 BCM / month overburden in September. While the current production is only 103,680.8 BCM / month for loading equipment and 87,806.49 BCM / month for hauling equipment.

The purpose of this paper is to optimize the production of equipment that can't reach their overburden production target. This caused by the low effective working time due to constraints and limited equipment that available in the field which make the efficiency low. We can see it by ourself from the research data that only 57.5% efficiency for loading equipment and only 61.52% efficiency for hauling equipment.

By using literature studies and observations in the field directly, then analyzing it. It is expected that this research method can find a solution to the problem of not achieving the target of overburden stripping.

In order to reach the target, the solutions are to increase the effective working time that it will increase the equipment efficiency and also adding some equipment. After the increasing of the effective working time, the efficiency grow from 57.5% to 62.12% for loading equipment and 61.52% to 65.52% for hauling equipment.

With this improvement, it can increase the production to 112,783.37 BCM / month for loading equipment, and 116,928 BCM / month for hauling equipment after adding 2 units of equipment. With this recommendations, the 110,000 BCM / month overburden stripping production target can be achieved.