

## **SUMMARY**

*PT Geo Dua Pito is a mining company that conducts mining activities at PT. Multi Jaya Energi with coal extracted. Coal contained in the territory of PT. Multi Jaya Energi is covered by a layer of overburden in the form of clay. Therefore the demolition of soil or rock above coal needs to be carried out. The demolition of the current overburden material is carried out using 1 Caterpillar 330Dl excavator and 4 Hino FM 260 JD dump trucks. The distance of transport from the mining front to the disposal area is  $\pm$  400 meters.*

*The problem that occurred at this time is not reached its production target of overburden material of 60.000 bcm/month. The current actual production of the excavator is 56.873,13 bcm/month and for dump truck is 53.409,37 bcm/month. . It's due to low loading and hauling equipment working efficiency which is 59,99% for excavator and 61,58% for dump truck. Low working efficiency is caused by obstacles that arise. Work obstacles consist of avoidable obstacle and unavoidable obstacle. Avoidable obstacle is operator lacks of discipline in working so that the working time reduce.*

*Effort to increase production are made by reducing avoidable working obstacles so that can increase loader and hauler equipment effective working time and working efficiency. Excavator working efficiency increase from 59,99% to 63,55% and dump truck working efficiency increase from 61,58% to 69,45%. Increased excavator and dump truck efficiency made excavator Caterpillar 330Dl production increased from 56.873,13 bcm/month to 60.298,42 bcm/month and 4 units dump truck Hino FM 260 JD production increased from 53.409,37 bcm/month to 60.238,15 bcm/month.*