

## ABSTRACT

CV. Gunung Mulia is a company that operate in andesite mining industry. This company located in Somorejo Village, Bagelen Sub-district, Purworejo Regency, Central Java. However, the production of andesite can not be implemented because it is still in the process of stripping the overburden.

The problem is the company can't reach the production target of stripping the overburden which is 340.96 bcm/day. The actual production is 334,58bcm/day for one unit of Caterpillar 320 B backhoe that works on stripping the overburden; 293,41 bcm/day for loading equipment that is one unit of Caterpillar 320 B backhoe ; and 67.58 bcm/day for hauling equipment there is three units of dump trucks Mitsubishi Colt Diesel 120PS. This occurs because the limited number of equipment and low effective working time caused by constrains.

The solution that can be done to solve this problem is by increasing the working time which can increase the equipment working efficiency and also by increasing the number of equipment. After improve the working efficiency in stripping unit from 73.86 % to 79.02% production capacity increased to 357.95bcm / day, and improvement of working efficiency on loading unit from 71.52 % to 83.25% can increase production capacity to 341.54 bcm/day, while in hauling unit do made with two attempt that is improvement of working efficiency from 69.81 % to 82.55% production ability increase to 79.92 bcm/day next for second attempt that is addition of amount of hauling unit as much 10 unit production capability increased to 346.71 bcm/day.