

ABSTRACT

PT. Arga Wastu is a company that operate in andesite mining industry. This company located in Sanetan Village, Sluke Sub-district, Rembang Regency, Central Java. The mining process is done by using Backhoe Komatsu PC 300 as loading equipment and Dump Truck Isuzu FVZ34P 285 PS dan Hino FM 260 Ti as hauling equipment.

The problem is the company cannot reach the production target which is 2.728 ton/day from front mining to crusher. The production is 2.545,85 ton/day for loading equipment and 2.264,73 ton/day for hauling equipment. 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. If the company already implement these solutions the production capability can reach 3.007,73 ton/day for loading equipment and 2.389,46 ton/day for hauling equipment and addition 1 unit hauling equipment the production capability can reach 2.787,69 ton/day.