

## ABSTRACT

Processing units play an important role in the continuity of the mining business, because the processing unit is one of the determinants of the quality of the products produced and to meet the production targets to be achieved by the company.

PT. Aneka Tambang Gold Mining Business Unit, Pongkor, West Java planned the production target for dore bullion in August of 1,365 kg / year with the target of the bullion dore in the ore that should be crushed at 1263.88 tons / day. The production reached by the Pongkor UBPE ore crusher unit has only reached 843.54 tons / day, so it has not reached the set production target of 1263.88 tons / day. With the existence of technical studies that have been carried out at the PT.Aneka Tambang Gold Mining Business Unit, Pongkor, West Java, it is hoped that it can provide input in order to increase crusher plant production capabilities so that the predetermined production targets can be met.

The results of observations and assessments of material conditions and crusher machine production systems found that the productivity of crusher machines at this time was 75.77 tons / hour, with an effective working time of 10.44 hours for 21 working hours, productivity would be 791,04 tons / day, with production currently available, it cannot meet the targets of the production targets set by the company and from efforts to reduce the time constraints, time can be pressed on human factors, namely 213.6 minutes to 164 minutes and emphasis standby time is 275.5 minutes to 155.5 minutes.

The results of the calculation after pressing the obstacle time showed that production per day became 101.04 tons / hour with an effective working time of 15.51 hours / day or 1,566.93 tons / day from the previous 75.77 tons / hour with an effective work time of 15,51 hours / day or 1,175.19 tons / day with an increase in effective working time is still not enough for the target of 1263.88 tons / day.

As an effort to obtain production that can meet the production targets set, efforts need to be made. Addition of the amount of material feed into the crusher can still be increased, so that an additional 25.25 tons / hour or additional material is needed 1 time per hour by a dump truck, so it can increase productivity of crusher to 1,566.93 tons / day and have reached the production target of 1,263.88 tons / day

Keywords: processing unit, crusher plant, production target