

## ABSTRACT

Limestone mining by PT. Indocement Tungal Prakarsa Tbk Palimanan Cirebon West Java located in Palimanan Barat Village, District Gempol, Cirebon, West Java Province. Mining activities that have been done include: clearing, overburden stripping, dismantling, loading and transporting. Limestone unloading process using drilling and blasting method.

One factors that affect maximum operation of blasting, among others is depending on drilling activity. In the reality drilling machines production in PT. ITP Tbk Palimanan Cirebon still does not meet expectations, it can be seen from the real drilling production of drilling machines used in mining limestone quarrying PT. ITP Tbk palimanan Cirebon before repairing. Drilling production amounted to 2,057,323.09 tons / year. Drilling production is smaller than limestone production target for clinker that equal to 3,366,469 tons / year.

Therefore, there should be increasing the productivity of drilling machines to achieve production targets. Factors affecting the drilling process and affect the production rate of drilling are drilling rate, drilling time efficiency, effective working time, operator skills and distance carrier spacing and burden.

Increasing the effective working time in an attempt to increase production by drilling are lowering barriers that still can be avoided. Imcreasing spacing and burden distance needs to be done for the goal of equal volume produced. It can be larger, so the drilling production increased and production targets achieved.

There are the result of increasing drilling production:

1. Increasing effective working time, which reduces the time constraints that can be avoided, then the resulting production is 3,045,389.137 tons / year.
2. Increasing effective working time and increasing spacing and burden distance, then the result production is 4,138,770.02 tons / year. Meet production targets.

Keywords: Productivity, Drilling, Basting