

## **ABSTRACT**

*Pit LAE2 PT. Tambang Raya Usaha Tama targeted stripping overburden production of 700,000 bcm/month. The process of stripping the overburden was preceded by drilling and blasting. The results of the overburden blasting and then loaded using excavator Hitachi EX2500 with a bucket capacity of 15 m<sup>3</sup>. Hitachi EX2500 excavator combined with 5 units of dump trucks Komatsu HD 785 with a capacity of 60 m<sup>3</sup> tubs.*

*Problems that occur at this time is not optimal production of excavator that causes failure to achieve the desired production goals. The production capability of excavator currently at 669,600 bcm / month for the excavator Hitachi EX2500-EX09 and 708,187.11 bcm / month for Hitachi EX2500-EX14. The magnitude of the match factor combination excavator and dump truck by 0.87 and 0.72 in other words there is a waiting time for the appliance load.*

*Efforts to increase the production is done so that company's production targets can be achieved. Increased production is done by correcting the turning angle of the equipment so that the load does not exceed 90<sup>0</sup>, and by setting the SOP (Standard Operating Procedure) for the cycle time of excavator, so that the record time of cycle time will be little effect on increasing production in the excavator. Production excavator Hitachi EX2500-EX09 increased to 730,472.72bcm/month and the excavator Hitachi EX2500-EX14 increased to 759,691.63 bcm/month, so that the company's production targets of 700,000bcm/month has been reached.*