

## SUMMARY

*PT Semen Padang is a State-Owned Enterprise mining company that operates in the cement industry. PT Semen Padang is located in Bukit Karang Putih, Batu Gadang Village, Lubuk Kilangan District, Padang City, West Sumatra Province. Mining activities at PT Semen Padang consist of unloading, loading onto conveyance equipment, transportation to crusher, as well as from crusher transported using belt conveyor to the processing plant. To realize good activities at the mining stage, an appropriate combination of loading equipment and transportation equipment is required. Currently, mechanical equipment production has not been able to reach the production target set by the company, namely 90.000 bcm/month.*

*This research aims to conduct an analysis of the production of loading and conveying equipment, identify factors that cause the production of loading and conveying equipment to not be achieved, and provide improvement efforts so that production targets can be achieved.*

*The method used in this research is to analyze the work efficiency of loading and conveying equipment, calculating match factor, as well as calculating the production that can be achieved by loading equipment and transportation equipment.*

*Equipment analysis was carried out on the combination of mechanical tools used during the research, namely excavator Komatsu PC-850 as a loading tool and dump truck Scania P-460 as transport equipment. The production target set by the company is 90.000 bcm/month. The current production achievement that can be produced is 75.944 bcm/month for loading equipment excavator Komatsu PC-850, with a production target achievement percentage of 84.38%. Meanwhile, for transportation equipment, it is 75.823 bcm/month for Scania P-460 transportation equipment, with a percentage achievement of the production target of 84.24%.*

*Efforts made so that production targets can be achieved are increasing work efficiency, by minimizing work bottlenecks that can be reduced and increasing the amount of bulk filling. By increasing work efficiency and increasing the amount of bulk filling. So the production capability of loading equipment will be 96.468 bcm/month for loading equipment excavator Komatsu PC-850, with a production target achievement percentage of 107.18%. Meanwhile, for transportation equipment it will be 96.456 bcm/month for Scania P-460 transportation equipment, with a percentage achievement of the production target of 107.17%.*