

## **ABSTRAK**

*PT. Jogja Magasa Iron (PT. JMI) is a company engaged in the field of iron sand mining located in the South Coast Area KulonProgo Regency, Special Province of Yogyakarta. The problem faced is to determine how much equipment and hauler and loader equipment need to be used to achieve production targets. This can be done by determining the production capability of the loader and the means of hauler used as well as assessing the harmony of work between the loading equipment.*

*PT. JMI has a production target of approximately 500.000 ton / month. To achieve production target, mining at PT. JMI uses the excavator backhoe Komatsu PC 200 and articulated dump truck HM 300-2 hauler equipment. The observation data obtained from the conservation activities obtained cycle time of loader is 16 seconds and the cycle time of the hauler is 1394,5 seconds. The effective working time of the loader is 85.62% while the working time of the hauler is 85.31%. From the calculation results the production of excavator backhoe komatsu PC 200 amounted to 128.754 tons / month and articulated dump truck HM 300-2 for 30.325,5 tons / month. Therefore, to meet the production target of 500.000 tons / month, the loader of excavator backhoe Komatsu PC 200 loaded by 4 unit and 17 units of articulated dump truck HM 300-2.*