

ABSTRACT

On mining activities at PT.Ciptakridatama site MHU Tanjung Laong the presence of mechanical devices would greatly support the success of that operation itself. So its use must be calculated precisely in order to achieve optimal results. Based on the fact in the field is still not working good between loading tools and transport tools so productivity of mechanical devices that work is not in fullfilled the planned production targets. Improved work efficiency between loading tools and transport tool greatly affect the achievement of production targets. Mining system used was the open pit. By using the excavator loading and transport CAT 329DL excavators 1 unit, 1 unit of CAT 336D excavator, CAT 320D excavator 2 unit as a support unit and truck unit Hino 8 FM260JD. Production target planned by the company amounted to 150,000 tons / month. Based on calculations, coal production is now only 107,036.595 tons / month, resulting in a shortfall of 42,963.405 tons / month. Failure to achieve production targets because the number of effective working time lost because of the obstacles that occur, both obstacles can be avoided and obstacles that can not be avoided. The amount of Effective Utilization (EU) will affect the EU's production of 47.3% and unloading tools and transport equipment amounted to 31.84%. The achievement of production targets is done by increasing the effective utilization to make improvements to the barriers - barriers so effective utilization unloading tools and transport tools could rise to 50.01%. Production of transportation equipment increased to 168,189.704 tons / month.