

ABSTRACT

Crusher production efficiency in andesite stone processing at CV.Safria, Rembang Regency, Central Java.

CV. Safria is a company engaged in mining and crushing andesite stones. The andesite crushing plant is located in Bogorejo Village, Sedan District, Rembang Regency - Central Java. CV. Safria was officially established on January 13, 2018. As a company that provides andesite stone needs, CV. Safria targets a production of 40,000 m³/month. But the reality on the ground at this time CV. Safria produces 34,813.9 m³/month with 15% ash or 5,222.1 m³/month, 5 mm products 20% or 6,962.8 m³/month, products 10-20 mm 45% or 15,666.3 m³/month, product 20-30 mm 20% or 6,962.8 m³/month. Improvements made by changing the size of the feed that enters the mouth of the crusher are too large, thus hampering the production process. Therefore, the size of the feed should not be more than 75 cm and in addition, to increase daily production, improvements are made by reducing the work delay time so that the effective working time increases. After repairs are made, the monthly production target is 44,197.5 m³/month, with details of 15% ash or 6,629.6 m³/month, 20% product size 5 mm or 8,839.5 m³/month, product size 10-20 mm 45% is 19,888.5 m³/month and product size 20-30 mm 20% is 8,839.5 m³/month. Factors causing the production target not to be achieved before repairs are ineffective working time caused by material constraints on the crusher such as too large andesite chunks, influenced by weather, experience and skill of the operator and standby time caused by tool repair time.

Keywords : Production, Crusher, Andesite