

ANALYSIS OF MINING ECONOMIC FEASIBILITY OF SANDSTONE
(SIRTU) PT. KALI GENDOL PERKASA, KEPUHARJO VILLAGE,
CANGKRINGAN DISTRICT, SLEMAN REGENCY, 2018

Abstract:

Stone sand potential in Kepuharjo Village, Cangkringan District, Sleman Regency, Yogyakarta Special Region is quite potential. In line with the need for raw materials to support development, therefore PT. Kali Gendol Perkasa as the miners carry out non-metallic rock sandstone minerals. In this study the production target was set at 241,200m³ / year for sand, while 117,600m³ / year for stone, from the mine life of 3 years over 1 month. Economic feasibility analysis is carried out to determine the level of profitability of mining plans in various conditions, such as changes in selling prices, production costs, as well as initial investment costs so that it can benefit PT. Kali Gendol Perkasa to find out the extent to which benefits are obtained in mining. The investment cost planned to open the mine is Rp. 1,335,527,660.00 where the cost is the sum of the Preparation Fee of Rp. 511,977,660.00 Cost of Socialization and Land Acquisition Rp.10,000,000.00 Construction Fee Rp. 690,350,000.00 Equipment Fee Rp. 123,200,000.00. The capital structure used is 100% own capital. The analytical tool used was Net Present Value (NPV), Internal Rate of Return (IRR), Net Benefit Cost Ratio (Net B / C), Pay Back Period (PBP), and sensitivity analysis. NPV results obtained were Rp1,246,230,245, IRR was 57.91%, Net B / C was 1.93, PBP was 1 year 4 months 22 days, and sensitivity analysis was stated to be sensitive. From the results of the feasibility analysis, it can be stated that PT. Kali Gendol Perkasa is worth considering..

Keywords: cost, capital structure, feasibility