

RINGKASAN

CV. Central Stone Perkasa (CV. CSP) secara administratif terletak di Desa Gunung Kukusan, Kecamatan Kokap, Kabupaten Kulon Progo CV. CSP merupakan perusahaan pertambangan andesit dengan target produksi sebesar 87.000-220.000 m³/tahun pada luasan 30 Ha selama 10 tahun. Penelitian melakukan kajian ekonomis dengan merinci biaya dan pendapatan. Biaya investasi total sebesar Rp 10.883.849.124,-.

Metode analisis kelayakan ekonomi yang digunakan adalah *Net present value* (NPV), *Discounted Cash Flow Rate of Return* (DCFRROR), dan *Pay back period* (PBP) untuk semua struktur modal. Hasil analisis dengan metode tersebut yaitu : untuk 100% modal sendiri ($i^*=15\%$) diperoleh NPV = Rp 71.655.436.696,- . DCFRROR = 71%, PBP = 1,8 tahun, dan untuk modal 40% sendiri 60% pinjaman ($i^*=12\%$) diperoleh NPV = Rp89.751.366.997,-. DCFRROR = 110%, PBP = 1,2tahun, Berdasarkan hasil analisis ekonomi ini, semua alternatif layak untuk dipertimbangkan dikarenakan $NPV>0$ dan $DCFRROR>i^*$.

Analisis kepekaan penambangan andesit menunjukkan kedua alternatif modal tetap dikatakan layak saat mengalami kenaikan dan penurunan harga sewa alat sebesar 3%, 6%, dan 9%. Pada perubahan investasi, saat kenaikan dan penurunan sebesar 3%, 6%, 9% proyek penambangan andesit dikatakan layak.

ABSTRACT

CV. Central Stone Perkasa (CV. CSP) andesite mine is located in Gunung Kukusan village, Kulon Progo district, Yogyakarta. CV. CSP is a private mining company which produces aggregate from andesite mining operation with 87.000-220.000m³/years on area of 30 hectares for 10 years. Study conducted a detailing the economic costs and revenues from mining operation. Total investment cost amounted to Rp 10.883.849.124,-.

Economic feasibility analysis method used is the Net Present Value (NPV), Discounted Cash Flow Rate of Return (DCFRROR), and Pay Back Period (PBP) for all of the capital structure. The results of the analysis by this method is, The 100% owner's equity ($i^*=15\%$) NPV = Rp 71.655.436.696,-. DCFRROR = 71%, PBP = 1,8 years, to 40% owner's equity 60% of the loan ($i^*=12\%$) NPV = Rp89.751.366.997,-. DCFRROR = 110%, PBP = 1,2 years. Based on the results of this economic analysis, all feasible alternatives to consider because $NPV>0$ and $DCFRROR>i^*$.

The analysis of the andesite mining sensitivity shows that both fixed capital alternatives are said to be feasible when there is an increase and decrease in equipment rental price by 3%, 6%, and 9%. On the change of investment, when the increase and decrease of 3%, 6%, 9% of andesite mining project is said to be feasible.