

STUDI KELAYAKAN USAHA PENAMBANGAN TANAH URUG DI DESA  
KARANGLEWAS KECAMATAN JATILAWANG KABUPATEN BANYUMAS JAWA  
TENGAH

*Abstract*

*The increasing number infrastructure development and housing development on Jatilawang Subdistricts and the surrounding areas needs more backfill soil. However, on Jatilawang subdistricts there isn't backfill soil mining. Therefore there is someone that makes the backfill soil mining on Karanglewas, Jatilawang Subdistrict and its development will go on for 5 (five) years after administration or feasibility study finish. The existence of backfill soil mining will fulfill demand of backsoil on Jatilawang Subdistrict. Feasibility Study on the backfill soil mining on Karanglewas Village will cover whole technical aspects, market and marketing aspects, social, economic and environmental aspects, and financial aspect to determine if it is proper for either mining or continuing. Judging from financial aspects with Net Present Value (NPV) methods shows the value more than 0 that is Rp 838.732.139,45 which is therefore from Net Present Value (NPV) criteria it is proper for development. The Internal Rate of Return (IRR) obtained from interest 48%, its value greater than its minimum which is 17%. Thus, this IRR criteria is proper and will provide relatively big profit. Payback period methods show an overview about the estimated time of payback that will be invested for 0.2 years. A sensitivity analysis where a 17.9% decline in benefits over cost forecasts could lead to NPV to 0, meaning that the project is very sensitive to changes in the estimated benefit (price). Whereas, a decrease of cost (cost) of 15.5% above the estimated cost will cause the NPV to 0, meaning that the project is very sensitive to changes in the estimated cost (cost).*

*Keywords : Net Present Value, Internal Rate of Return, Pay back period and Sensitivity Analysis.*