ABSTRACT

The existence of an underground river in the Ngerong cave, Rengel village, Tuban potential should be utilized. Underground river in the Ngerong cave has a debit approximately 773.6 lt/sec, and with this flow will be produce electricity approximately 20 kW. Rengel rural area, mostly the area of rice fields and house’s people need water from these rivers. The area around the village Rengel often experience drought. Hence, it’s need pump to supply water and the pump requires electricity. Then, came the concept of power plant, which is based on the community. This concept is based on the technology Micro Hydro Power Plant (PLTMH). Micro Hydro obtain energy from the flow of water that has a certain height difference. Energy is used to turn a turbine connected to electric generators. PLTMH is one alternative solution to overcome the shortage of electricity and especially in its use to pump water to overcome water shortage. Micro Hydro Power Plant will try to apply in an underground river in the Ngerong cave, Rengel village, Tuban.

Keyword : Micro hydro, Independent’s village electricity, Generation, Water Turbine
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