

ABSTRAK

Limited availability of good tools and practical instrumental experimental module power plant pikohidro the reason constituent Final. This final project aims to build a miniature power plant lab module pikohidro as alternative power generation.

On measurement modules / experimental use some simple methods to get the average yield measurements of water discharge, head (high water fall), and testing of a turbine wheel by using a light load and does not use a light load, so that can know the difference rotation (rpm).

Based on the results of tests performed, the results obtained by each method of measuring the flow of water, Equation 1 = 0.120 m / sec, Equation 2 = 0.197 m², Equation 3 = 0,005 m³ / s. Head measurement using a hose to get the average = 189, and a turbine wheel Testing = the generated voltage = 4.6 V.

Keywords: power generation pikohidro