

Development of Water Supply Service Capacity

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ABSTRACT

This research is intended to find out how much the water discharge at the water source in Jambe Bleberan Village Playen Gunungkidul. This debit data is used as input to plan the capacity of the Clean Water Management (PAB) service. By knowing the data of the source of clean water, the ability of the source water flow in serving the community can be calculated.

This research was conducted in the form of on-site survey and simulation of water taking at Civil Engineering Department and Planning Faculty of Engineering, Yogyakarta State University. The simulation model uses tank model and Watercad v8i software for flow in pipes.

The results of this study indicate that the discharge in September was 50.4 liters / sec. For optimal charging is by pumping 2 times starting from 03.00-07.00 am (4 hours) and 14.00-18.00 (4 hours) with debit 16 liter / second.

Kata Kunci: *Water Discharge, simulation, service capacity*