

ABSTRAK

Thesis Title : **SISTEM MONITORING DAN PENGELOLAAN PEMBAGIAN PENGGUNAAN AIR BERSIH MENGGUNAKAN ARDUINO MEGA DAN DATABASE SEBAGAI PENYIMPANAN DATA**

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The purpose of this tool is to improve the quality of drinking water by treating water that will be used as drinking water, which is absolutely necessary, especially if the water comes from surface water. The processing in question can be in the form of simple and complete processing. Where we do not know the amount of water that is channeled from the water source to the reservoir where every water management organization must know the amount of water consumption in each area.

This tool uses several components such as the Arduino Mega as the main controller, the Mcu Node as a liaison between the hardware and the web, then there is an Ultrasonic Sensor which is used to measure the water level, the Turbidity Sensor is used to detect the level of turbidity of the water, and waterflow is used as a water measurement. used.

Keywords : *Arduino Mega 2560, Node MCU, Sensor Ultrasonik, Sensor Turbidity, Waterflow*