ABSTRACT

Sometimes people who use water for everyday purposes do not know how much water they use. Unknowingly when out of bills spends a lot of cost. To find out how much water we use and to reduce the cost we have to spend on water use, the authors want to make a tool that can monitor the use of water TAPS. The amount of water coming out is the volume and price of water. The Data can be viewed through the user's mobile and there is an LCD in the device. Handphone used to receive water debit data and user's water price in the form of phone type Android only because using Android Studio application..

Wateflow sensor will be paired amid the pipe. The Waterflow sensor will transmit the water discharge data passing through it to nodeMCU after which nodeMCU will transmit to the database, the database used is Thingspeak. Once processed by the database, sent to the Android studio application. In Android, the passing water Debit studio will be calculated at the price and can be seen on the user's mobile phone. This tool has some hardware such as waterflow sensor, NodeMCU, and LCD.

This tool is obtained counting the amount of water discharge price that passes through the sensor, this tool also provides various types of customers and can determine each price.

Keywords: *Waterflow* sensor, *LCD, nodeMCU, Thingspeak, android studio*