**AUTOMATIC PUBLIC TAP CONTROL SYSTEM USING IR SENSOR TO PREVENT WASTAGE OF WATER**

**Abstract:**

Now-a-days the usage of water has exceeded in metros and in rural areas. The is due to growth in population. The project automatic public tap control to prevent wastage of water is very useful to prevent excessive water flowing from taps. Mostly we come across this kind of situation at public taps. Once the container is filled, no one takes care to close the tap .To avoids these leakages and to utilize the groundwater coming from public taps in an efficient way we have designed an excellent system. Here we are designing project IR based automatic public tap control is used to prevent wastage of water from public taps.

A water cooler or water dispenser is a device that dispenses water. It acts as a vending machine that holds and dispenses in small amount. Whenever it senses any container automatically it fills it with water.

The project consists of a IR transmitter through which rays will be continuously received by IR receiver, which is fed as triggering input to transistor driver circuit. Here we are using DPDT relay/Traic with a combination of MOC3021 and BT136 to drive water dispenser. Until water is dispensed out it indicates with a buzzer.

This project uses regulated 5V, 750mA power supply. 7805 three terminal voltage regulator is used for voltage regulation. Bridge type full wave rectifier is used to rectify the ac output of secondary of 230/18V step down transformer.

BLOCK DIAGRAM:

