**IoT Project**

**Control Unit for Irrigation water pumps**

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**Brief Description**

Project construction of central control unit for irrigation water pump controller for introducing the automation technology in lives of those villagers who have barely any water supply.

There will be an android App installed in Farmer’s cell phone from where he can send message to the GSM module at the Arduino End which in a way controls the Relay for the flow of water into the farm. The microcontroller takes the responsibility of controlling the water pump using relay. In the implementation of circuit, Arduino is used to control two water pumps and the other with the user at the central control unit.

**Advantages**

* A user friendly, reliable and automated water pumping system for villagers.
* The major advantage of this device is, it can be operated by the villagers and the status of the motor can also be known by a simple LED indication more over the device is very economical and can be brought available to the common man.

**Required Components**

SIM 900A GSM with Antenna.

MicroSD Card Breakout with Output.

Digital Humidity Temperature Sensor Module

5 V Relay

DHT 11 Temperature and Pressure Sensor

Jumper wire.

Bread Board.

External Power supply (9V Battery \*2) (Optional).