Abstract

Irrigation in India to maximum extent is dependent on the monsoons, which are not a reliable source of water. Depending on the soil type, plants are to be provided with water, which is called as intelligent irrigation system. Nowadays water scarcity is a big concern for farming. Irrigation status is updated to the server or local host using Personal Computer. Arduino platform is used here for getting information via serial communication from microcontroller and to update in the server. In addition for better cropping system, fertilizers required for the crops, best crops to cultivate for the particular climatic and soil conditions are updated to server at regular basis by monitoring soil PH level, Temperature level of the field area etc. By using PC host, crop is continuously monitored.

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Keywords

Arduino Uno board, Liquid crystal display, Soil moisture sensor, Relay, Solenoid valve, PCB board, 5V power supply, 12V power supply, GSM module