Abstract

With the water requirements in irrigation being large, there is a need for a smart system that can save the water and increase the productive of crop. This paper aims at saving time and avoiding problems like constant vigilance in irrigation field, it also focus on water conservation by automatically providing water to the field depending on their water requirement at different stages of crop growth. Hardware model has been developed to check the water level in the field and underground sump, with the help of water level sensors, based on that pumping motor will automatically pumps the water into the field. In this system, the main controlling device is microcontroller. Water level sensor will give the status of the water level to the microcontroller, based on that microcontroller will display the status of the water pump on the LCD and switch
ON or OFF the pumping motor through relay. In irrigation process, monitoring of water level in the field is of important factor, which increase productivity of crops, so monitor the water level condition are been carried out by magnetic floating sensors, which senses whether the water level is of desired level or not and it is continuously monitored by the microcontroller. In the present work Keil μvision4 and isis7 professional software are used for programming.

References

- A status paper on "Rice in India" by Department of Agriculture & Co-operation, Patna, India.

Index Terms

Computer Science

Applied Sciences

Keywords

Microcontroller  Magnetic Floating Sensor