ABSTRACT

TOPIC:Smart Drip Irrigation System

India is an agricultural country and 60-70% of our economy is dependent on it. Due to global warming and natural resource scarcity, we must make sure the water resources are efficiently and precisely used up for farming. We want to automate the tedious process. We propose a microcontroller based system for automatic smart drip irrigation. Taking in consideration of the weather and soil parameters we will predict the weather and the quantity of water that should flow accordingly through drip irrigation with the help of sensors. By this project we can control the moisture content of the soil in the cultivating field. The water flow will be monitored and based on the data available, analysis and prediction will be done. Not only will it help the user to use water wisely in future but also the water supply to crops will be autmated based on the conditions which is a win- win situation for both the farmer and the environment also ultimately leading to a good crop yeild.

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