

Smart water system

Problem statement:

Water is essential resource in the world. It is used in various fields such as buildings, gardens, restrooms, agricultural , factories ect. Let us consider one such field i ,e. PUBLIC GARDEN- To maintain public gardens regular watering of plants must be needed. So the gardener used to water the plants every morning and evening. It seems to have loss of water because gardener doesn't notice the **moisture** content in the soil. He/She may simply water the plants even though rainfall happened before. They may water the plants beyond the limit. Thus water is wasted in this case. To overcome the problem I have decided a scenario.

Problem Abstraction:

To overcome this problem I have a plan to buil a smart water management system using Soil Moisture sensor to detect the range of moister in soil. We will specify the limit for this sensor that if the mositer is below the limit then the installed drip irrigation pump will pump out the water. The pumping water also has a limits to conserve water. In gardens there are shurbs and grasses so it requires little amount of water. Hence the drip irrigation pump will pump out limited water to the plants. It will pour the limited water for limited period of time .In the period of Drought this drip system will pour water that is sufficient to plants to grow. By installing this drip system we can conserve water as well as plants.

Conclusion:

Thus by using Smart water management system using soil moister sensor, we will install drip system. That will help us to conserve water in the public garden.