

# Automatic supply of water to the fields

The National Institute of Engineering, Mysore (South) / I Sem /Mech- B Sec

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## PROBLEM STATEMENT

Spending too much on labour charge, as well as current bills at the cost of access water.

## TEAM MEMBERS

S Srihari Bhatt  
Tejaswi B Handa  
Shrirang  
Revanth K G D  
Mohammed Tariq Azeez  
Sannidhi J S Jain.

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## INTRODUCTION

In the rainy season, plants usually do not need to be watered, while in the dry season, the plants must be watered regularly according to the soil moisture conditions. Farmers usually do not grow food plants in the dry season for fear that they will not grow well due to the absence of rainfall. The farmer's dependence on the season of rain causes the production to decline and becomes a hindrance. An information and communication technology-based agricultural device is needed to overcome this problem

The rate at which water resources are depleting is a dangerous threat hence there is a need for a smart and efficient way of irrigation. Agriculture farmers are facing major problems in watering their crops. They need to pump water and wait until the field is properly watered, which compels them to stop doing other activities.

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## IDEA GENERATION

Automatic supply of water to the field reduces the burden on the farmer. We have attempted to design a simple device prototype using Arduino and respective sensors with it. It helps the farmer to track humidity, moisture contents, chemicals present such as N, P, K etc. It also tracks the required to water the field, quality of water and its components, etc. These all things can be viewed and managed by a simple smartphone. It saves Farmer's money and time.

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## PROTOTYPE IMAGES

