

## **Project Design Phase-I**

Date	19 September 2022
Team ID	PNT2022TMID19889
Project Name	IOT Based Smart Crop Protection System for Agriculture
Maximum Marks	2 Marks

## **PROPOSED SOLUTION**

### **INTRODUCTION:**

This smart farming project is in trending nowadays because it can reduce the manpower in farming and secondly it is an automatic system so you don't need to interfere in it. The land where the vegetation is been cultivated will be monitored continuously regarding the moisture and the soil temperature. All this will be automated such that there will be no human intervention.

### **NOVELTY AND INNOVATION:**

This farming technique helps the farmers cherish their crops in a good manner. They will be able to reduce the manpower required for their work in the land. When the crops start to grow, they need to irrigate the land regularly to maintain the moisture. They need to either look on it or get in the land to find out whether the field is moisturized or not. This tool helps the farmers look after their land as well as their crops with ease.

They just can measure the moisture of the soil with the help of the device and then plan the things that are to be done accordingly. This helps in reducing the time consumption of them in getting to all the parts of the field and finally ending up in a dilemma of what to do next.

### **FEASIBILITY OF THE IDEA:**

The equipment's feasibility is very affordable and can be owned by all of them. The approximate cost for setting up this is around 1029.08 INR. This is available for all and can be set up by all.

### **SOCIAL IMPACT:**

The work burden on the farmers is reduced and even the crops are protected for over irrigation that often leads to decay of the crops. The farmers will be indicated on the amount of water that the land must be irrigated with to avoid adverse effect on the crop's growth.

## BUSINESS MODEL:

