

VSB Engineering College,karur-639111

Project Design phase – I

Problem Solution fit

Project Title : IOT Based Smart Crop Protection System for Agriculture

Team id : PNT2022TMID33628

1.Customer segments

Farmers are the customers who are unaware about the water level in the field while they irrigate the field using modern irrigation systems.

2.Customer constrains

Constraint that customer will face about safety of the device which landed in the field.

5.Available solutions

Solution which we prepared for this is using sensor to monitor water level and then gives alert message to farmers when it reaches threshold water level.

2. Jobs to be done

Use sensors to measure the threshold water level in the field.

9. Problem route cause

Inability to check the water level in the field while he is away from the field can face the consequence.

5. Behavior

Taking caring about the device in the field.

3. Triggers

Some of the triggers are advertisements in the television and information from the experts.

10. Solution

Farmers unable to check the water level in the field while he is away from the field by using IOT based smart crop protection device.Farmers can easily monitor the water level in the field.

8. Channels of behavior

8.1 online

Farmers can know the working nature of device through online and can seek help from experts.

4. **Emotions**

With the modern irrigation risk of accumulation of water in field results plant decay but this device overcomes that defect.

8. 2: **offline**

Farmers can reach nearby showrooms to buy the device and also for repair.