

VELAMMAL ENGINEERING COLLEGE

**SMART FARMERS – IOT ENABLED FARMING
APPLICATION**

PROBLEM SOLUTION FIT

TEAM ID:PNT2022TMID23526

IOT BASED SMART FARMING**SOLUTION FIT TEMPLATE****1. CUSTOMER SEGMENT(S)**
CS

- This project is mainly used to reduce the work load and mental illness of farmer.
- Make farmers to invest in Good agricultral practices and climate smart agriculture techniques.
- The irrigation system, plant monitoring system, temperature and humidity detection.

2..JOBS-TO-BE-DONE / PROBLEMS

- Implementation of battery.
- Cultivate various crops in same field.
- Detection of water level of all individual crops.

3. TRIGGERS

- Monitoring the crops anytime 24/7 and low power consumption which lead the customers to triggered.

4. EMOTIOMNS BEFORE & AFTER

- Security is maintained.
- Tremendous yield
- Low power consumption

Ex**5. AVAILABLE SOLUTION.**
I&P

The available solutions are:

- Crop monitoring
- Water control
- Temperature control

6. CUSTOMER CONSTRAINTS

- Low budget
- Proper irrigation facilities
- Reduced work load of customers
- Proper amount of water consumed
- Increase productivity.

7.BEHAVIOUR

- Real time analysis of water demand
- Reduce the power consumption
- Farmers see parameter and control irrigation through smart phone

	8.CHANNELS OF BEHAVIOUR <ul style="list-style-type: none"> • ONLINE : providing online assistance to the farmer by regarding the water content of soil. online assistance to be provided to the user in using the product • OFFLINE : Awareness camps to be organized to teach the importance and advantages of automation and Iot in the development of agriculture 	9. PROBLEM OF ROOT CAUSE <ul style="list-style-type: none"> • The frequent change or unpredictable weather and climate made it difficult to farmers • These factors play a major role in making decision whether to water the plant or not • The monitoring of the field is hard when the farmer is out of station thus leading the crop damage and affect the yield. 	10. YOUR SOLUTION <ul style="list-style-type: none"> • Our product collects the data from sensors and send value to main server.The ultimate decision whether to water the crop or not by the farmer using this product 	
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