

SETHU INSTITUTE OF TECHNOLOGY

**SMART FARMERS – IOT ENABLED FARMING
APPLICATION**

PROBLEM SOLUTION FIT

TEAM ID:PNT2022TMID17203

IOT BASED SMART FARMING**SOLUTION FIT TEMPLATE**

1. CUSTOMER SEGMENT(S) CS <ul style="list-style-type: none">• This project is mainly used to reduce the work load and mental illness of farmer.• Make farmers to invest in Good agricultural practices and climate smart agriculture techniques.• The irrigation system, plant monitoring system, temperature and humidity detection.	2.JOBS-TO-BE-DONE / PROBLEMS <ul style="list-style-type: none">• Implementation of battery.• Cultivate various crops in same field.• Detection of water level of all individual crops.	3. TRIGGERS <ul style="list-style-type: none">• Monitoring the crops anytime 24/7 and low power consumption which lead the customers to triggered. 4. EMOTIOMNS BEFORE & AFTER <ul style="list-style-type: none">• Security is maintained.• Tremendous yield• Low power consumption
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Ex

5. AVAILABLE SOLUTION. S&P <p>The available solutions are:</p> <ul style="list-style-type: none">• Crop monitoring• Water control• Temperature control	6. CUSTOMER CONSTRAINTS <ul style="list-style-type: none">• Low budget• Proper irrigation facilities• Reduced work load of customers• Proper amount of water consumed• Increase productivity.	7.BEHAVIOUR <ul style="list-style-type: none">• Real time analysis of water demand• Reduce the power consumption• Farmers see parameter and control irrigation through smart phone
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8. CHANNELS OF BEHAVIOUR

- **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

- 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

- 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