Project Title: IoT enabled SmartFarming Agriculture | **Project Design Phase-I - Solution Fit Template** | **Team ID:** PNT2022TMID29878

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) — CS

The customers who are going to adapt this project are:

*Large Scale Farmers

*Remote Farmers

6. CUSTOMER CONSTRAINTS — CC

The customer wants a device which could be the solution in the field of watering the crops even the farmer is not presence in field and the device should fulfill all the following constraints

* Cost and Time Efficient
* Resource Efficient

5. AVAILABLE SOLUTIONS — AS

The moisture controlled irrigation system could be the best solution for this problem statement that has been provided by the farmers and also it specifically satisfies the customer constraints also.

Explore AS, differentiate

Focus on J&P, tap into BE, understand RC

2. JOBS-TO-BE-DONE / PROBLEMS — J&P

The customer needs to automate the process of irrigation in cost efficient ,energy efficient, reduced power consumption and can be achieved in a reliable

9. PROBLEM ROOT CAUSE — RC

1) The problem has its route stabled at the rate of the fast moving world since people move fast of the times and since they have their work to be stagnated similarly farmers face the inability in the process of irrigation

2)In some times, farmers can't get or predict the sensing parameters data accurately(humidity,moisture, temperature)

7. BEHAVIOUR — BE

The customer wants to make the revolutionary propagation in the rating of the irrigation through the reliability of amount of water availability on the land.

Focus on J&P, tap into BE, understand RC

Identify strong TR & EM

3. TRIGGERS — TR

The reliability and easy accessibility of this finished projects yields the Customer's attraction and they can easily installed in their fields

4. EMOTIONS: BEFORE / AFTER — EM

Before → Manual system is necessary to monitor the fields

After → Manual system is not Necessary since in our project we'll develop a mobile or web applications so the farmers can control and monitor about his field. So the customers feel comfortable and Happy

10. YOUR SOLUTION — SL

Our solution for this project is to initiate the reliability of the irrigation system using the sensor sensed information from the field and also make the automation is on and off of water pump

8. CHANNELS OF BEHAVIOUR — CH

The channels of behaviour recombines the ration of following:

*ONLINE : Using mobile application the farmers can controlling the motor pumps through online mode.

*OFFLINE: Farmers can get the sensing paramaters data via SMS.

Identify strong TR & EM