Project Title: Smart Farmer- IOT enabled smart farming **Project Design Phase-I - Solution Fit Template** **Team ID: PNT2022TMID04753**

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) CS

Who is your customer?

Farmers and also persons who are willing to do farming but cannot manage properly

6. CUSTOMER CONSTRAINTS CC

What constraints prevent your customers from taking action or limit their choices?

Complexity of the usage of smart farming techniques and adding new feature to the already existing method.

5. AVAILABLE SOLUTIONS AS

Which solutions are available to the customers when they face the problem or need to get the job done? What have they tried in the past? What pros & cons do these solutions have?

At present the people tend to go to the farm location and operate the motors. And the soil monitor is done by assumption.

Explore AS, differentiate

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

2. JOBS-TO-BE-DONE / PROBLEMS J&P

Which jobs-to-be-done (or problems) do you address for your customers?

Management of the farm location like watering the plants, soil content calculation.

Controlling the application using mobile application.

9. PROBLEM ROOT CAUSE RC

What is the real reason that this problem exists? What is the back story behind the need to do this job?

This problem exists due to can't able to adopt with something new. Many people who want to pursue agriculture don't because of the amount work needed to monitor the crops which makes the agriculture a far fetched job to follow.

7. BEHAVIOUR BE

What does your customer do to address the problem and get the job done?

Easily monitoring and implementing the task properly and efficiently using mobile application.

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

3. TRIGGERS

TR

What triggers customers to act?

It reduces the manual labor caused by implementing the task

4. EMOTIONS: BEFORE / AFTER

EM

How do customers feel when they face a problem or a job and afterward?

Before: Need to monitor frequently even though there may be damages.

After: Can monitor the crops remotely with accurate result of the status.

10. YOUR SOLUTION

SL

-->Our proposed solution is to create a farm monitoring app which monitor the soil moisture and content, and also using weather monitoring the user can control the motor for pumping water to the farm area.

--> Viewing the necessary details in the application homepage.

8. CHANNELS of BEHAVIOUR

CH

8.1 ONLINE

What kind of actions do customers take online?

Controlling the connected devices

viewing need information and storing it.

8.2 OFFLINE

What kind of actions do customers take offline?

Installation of the module to the farming area.
Learning the flow of the application.