Project Design Phase-I
Problem – Solution Fit Template

Date	19 September 2022
Team ID	PNT2022TMID07205
Project Name	Project – SMART FARMER(IoT Enabled Smart Farming Application)

Problem – Solution Fit:

Project Title: SMART FARMING APPLICATIONS **Project Design Phase-I - Solution Fit** **Team ID:** PNT2022TMID07205

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) CS

Farmer, who is the owner of agriculture work

6. CUSTOMER CONSTRAINTS CC

They have to ensure that the crops are well irrigated and the farm status is monitored by them physically.

5. AVAILABLE SOLUTIONS AS

Farmer will be provided with the web application link or mobile application which can be accessed by the farmer from anywhere, the application need only internet connection on their mobile phone.

Explore AS, differentiate

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

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

Hard to get a good internet speed
Heath issues
Uncomfortable for paying cash
Looking for application that matches interest

9. PROBLEM ROOT CAUSE RC

In difficult times like in the presence of pandemic also they have to work hard in their fields risking their lives to provide food for the country.

7. BEHAVIOUR BE

Even if the number of users increases the system will perform well.

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

3. TRIGGERS TR

To get the live data from the farming field

4. EMOTIONS: BEFORE / AFTER EM

Farmer are to be present at form for its maintenance irrespective of the weather conditions.

10. YOUR SOLUTION SL

Farmer will be provided with the web application link or mobile application which can be accessed by the farmer from anywhere, the application need only internet connection on their mobile phone. OpenWeather API is used to analysis the global weather data and the farming land weather data.

8.CHANNELS of BEHAVIOUR CH

8.1 ONLINE

Farmer will be provided a mobile app or a web app which is used to monitor the farming field parameters.

Based on all parameter, farmer can water his crop by controlling the motor using the application.

8.2 OFFLINE

system can monitor soil moisture and climatic conditions to grow and yield a good crop.