# **Project Design Phase-I - Solution Fit Template**

Project Title: SmartFarmer - IoT Enabled Smart Farming Application Team ID: PNT2022TMID04704

1. CUSTOMER SEGMENT(S) 6. CUSTOMER CONSTRAINTS 5. AVAILABLE SOLUTIONS CC Our product is for farmer who The use of multiple sensors cultivate the crops. Our main All the data and field is very difficult and continuous objective is to help them, parameters were collected internet connection is required monitor field parmeter remotely using different sensors and for success. and irrigate the field with suitable provided to customer for amount of water in suitable time. suitable crop choosing and irrigation

#### 9. PROBLEM ROOT CAUSE

Frequent changes climate and unpredictable weather made it difficult for farmers to engage in agriculture. It is difficult to monitor when the farmer is not at the field, leading to crop damage

#### 7. BEHAVIOUR:

RC

Use a proper system to overcome the effect of excess water from heavy rain.

BE

### 3. TRIGGERS



Farmers struggle to provide adequate irrigation .Inadequate water supply reduces yields and affect Farmers profit level. Farmer have a hard time predicting the weather

#### 4. EMOTIONS: BEFORE / AFTER



BEFORE:- Lack of Knowledge in weather first forecasting, then random decision, finally result will be low field

AFTER: Data from reliable source, then correct decision will be taken, finally result will high yield

#### 10. YOUR SOLUTION



Our product collects all the data from various types of sensors andd send the value to our main server. It also collect weather data from the weather API. The final decision to irrigate the crop is made by the farmer using a mobile application

# 8.CHANNELS of BEHAVIOUR



## **8.1 ONLINE**

Providing knowledge regarding the pH and moisture level of the soil and providing online assistance to the farmer. Online assistance to be provided to user in using products

### 8.20FFLINE

Awareness camp to be conducted to teach the importance and advantage of automation and lot in the field of agriculture