Project Title :ESTIMATE THE CROP YIELD USING DATA ANALYTICS **Project Design Phase-I - Solution Fit Template** **Team ID:** PNT2022TMID20403

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) CS

The project's target audience are farmers.

6. CUSTOMER CONSTRAINTS CC

High adoption costs and concerns about safety.
Ignorant of agricultural applications.
Use it with consideration for climate change

5. AVAILABLE SOLUTIONS AS

Farmers can solve the problem by using their past experience in the crop yield

By changing the fertilizer, pesticides or planting crops, soil.

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

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

Problem:

Agriculture sector is struggling to increase the productivity of crop in india.

Due to variation in climate, there exist bottlenecks for increasing the crop production for farmers.

Jobs-to-be-done:

In the fast moving world, by using technology we can increase the crop yield production.

9. PROBLEM ROOT CAUSE RC

Agriculture is very important for human survival. In india majority of population is into agriculture.

The root casue for this problem is climate and economic factors like temperature, irrigation,soil, rainfall, pesticides,drought

7. BEHAVIOUR BE

A remote location with Good internet connectivity can prevent transmission speeds.

Customer should have the knowledge about the technology which is used to predict the crop yield.

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

Identify

3. TRIGGERS TR

seeing their neighbour using the crop yield prediction techonolgy,

Create possibilities to help individuals in underdeveloped countries escape poverty.

Smart farming lessens its impact on the environment.

4. EMOTIONS: BEFORE / AFTER EM

BEFORE: Customers have to face loss in their agriculture field, due to this they may feel Anger,depression,restlessness,disbelief, Sadness.

AFTER:Confidence,stability,happy,peace.

10. YOUR SOLUTION SL

Our solution is to predict the crop yield using data analytics,

For this we are going to use some algorithms in data analytics and Machine learning by which we can predict the crop yield and obtain the results.

8. CHANNELS of BEHAVIOUR

ONLINE

The farmer will receive the data sent through the application and sensor data.

OFFLINE

Farmers take control action to keep an eye on their land through quick response.