Project Title: Estimate Crop Yield Prediction using Data Analytics   **Project Design Phase-I – Solution Fit**   **Team ID:** PNT2022TMID21513

1. CUSTOMER SEGMENT(S) `CS`

1) Farmers
2) People related to field of agriculture

6. CUSTOMER CONSTRAINTS `CC`

Lack of experience
Lack of knowledge

5. AVAILABLE SOLUTIONS `AS`

Seeking experts – Safe approach
Random attempts – Not encouraged

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

The farmers necessarily require a timely advice to predict the future crop productivity and an analysis is to be made in order to help them to maximize the crop production in their field.

9. PROBLEM ROOT CAUSE `RC`

India, majority of the farmers are not getting the expected crop yield due to several reasons. The agricultural yield is primarily depending on weather conditions. Rainfall conditions also influences the rice cultivation. In this context, the farmers necessarily require a timely advice to predict the future crop productivity and an analysis is to be made in order to help the farmers to maximize the crop production in their crops

7. BEHAVIOUR `BE`

Seek help from experienced people
Try to acquire knowledge on cultivation methods
Understand the soil factors such as humidity, nature of the soil and choose a crop based on the observations.

3. TRIGGERS `TR`

Various visualization techniques will generate statistical results that will be helpful in decision making for the stakeholders.

4. EMOTIONS: BEFORE / AFTER `EM`

Before:
Insecure, poor decision making

After:
Improved Decision making, confident

10. YOUR SOLUTION `SL`

we will be analyzing some important visualization, creating a dashboard and by going through these we will get most of the insights of Crop production in India.

8. CHANNELS of BEHAVIOUR `CH`

8.1 Online:
1. Makes decisions based on the results given by the analysis in crop prediction tool.

8.2 Offline:
1. Seek help from experts in neighborhood through communication