# **Project Design Phase-I – Problem Solution Fit**

**Project Title:** Fertilizers Recommendation System for Disease Prediction **Team ID: PNT2022TMID52605** 

Define CS, fit into CC

## 1. CUSTOMER SEGMENT(S)

Agriculturalist

Nursery owners

Beginners in farming &

Farmers

gardening



## 6. CUSTOMER CONSTRAINTS

Unfavorable soil properties, climatic

conditions led to new diseases in

crops. Manually identifying the

Difficulty in finding best fertilizers

to get rid of an infection in crop.

diseases is time-consuming.



#### 5. AVAILABLE SOLUTIONS



Farmer traditionally add manure as fertilizers to crops. They use pesticides and insecticides.

**Explore AS, differentiate** 

## 2. JOBS-TO-BE-DONE / **PROBLEMS**



## 9. PROBLEM ROOT **CAUSE**



#### 7. BEHAVIOUR



Crops are prone to diseases and infections during their different growth stages. If unnoticed this can affect their productivity.

Lack of sufficient nutrients in the soil can cause diseases. Pollution in air, water and soil are also factor of crop diseases. Ill-agricultural practices also contribute to spread of disease.

Plant diseases vary in incidence from season to season. Farmers can add fertilizers to increase soil nutrients. Adopt good agricultural practices that are traditionally followed and proved to give good results.

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