Project Design Phase-I
Proposed Solution Template

Date	20th October 2022
Team ID	PNT2022TMID54006
Project Name	**Exploratory Analysis of Rain Fall Data in India for Agriculture**

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	• Due to high downpour of rainfall crops may get affected and this can lead to poor growth of crops. • This can have a drastic effect over the farmers and they may loose their livelihood • The food is also limited for people due to less production of crops and there may be sudden increase in cost for food products. • Rainfall plays a major role in crop production.
2.	Idea / Solution description	• If we analyse the last few years data it will enable sufficient allocation of water resources for agricultural purposes. • This proper analysis of amount of rainfall helps in preventing crop damage
3.	Novelty / Uniqueness	• It is used to predict the rainfall easily • It also uses precipitation and other earth observing datasets in tropical cyclones. • It is relies upon the rainfall data in India for agriculture.
4.	Social Impact / Customer Satisfaction	• Water irrigation method is improved with the help of weather forecasting. • This data can assist farmers in determining when they should work most efficiently in their day-to day life. • Variety of crops can be cultivated to obtain good health of people

5.	Business Model (Revenue Model)	• Due to collaboration with agriculture-sector, we could provide technical solutions to problems and there may be increase in crop productivity and crop growth. • This can help in avoiding damage and wastage of crops and could give high yield of crops to farmers.
6.	Scalability of the Solution	• This will help the major Agriculture based company to maximize their growth efficiency, save resources and optimize their production and it will analyse the climate data from meteorological stations and from food and Agricultural organizations.