

**Project Design Phase-I**  
**Proposed Solution Template**

Date	28 September 2022
Team ID	PNT2022TMID52964
Project Name	Project – Exploratory Analysis of Rain Fall Data in India for Agriculture

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Rainfall is a highly influential factor with respect to agriculture. Irregular heavy rainfall often results in heavy floods, destruction of crops and other socio-economic hazards. It is thereby crucial to exactly determine the rainfall for effective use of water resources, crop productivity, and pre-planning of water structures.
2.	Idea / Solution description	Smart prediction of rainfall using exploratory analysis of rain fall data in India to enable efficient allocation of water resources for agricultural purposes.
3.	Novelty / Uniqueness	The solution is reliant on the rainfall data in India for agriculture. The solution is enabled by the use of data analytics and data visualisation tools.
4.	Social Impact / Customer Satisfaction	Efficient management of water resources leading to minimized cost of operation. Farmers enjoy increased yield and thereby increased revenue. This enables them to settle existing debts if any, and an overall improved quality of life.
5.	Business Model (Revenue Model)	Increased revenue for agricultural practitioners as a result of increased yield.
6.	Scalability of the Solution	Highly Scalable. Proposed solution will help improve the workflow of the overall agricultural process, thereby making life easier for farmers.