

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

Date	05 October 2022
Team ID	PNT2022TMID20305
Project Name	Estimate the Crop Yield using Data Analytics
Maximum Marks	2 Marks

**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)	The foundation of the Indian economy is agriculture, which meets a fundamental requirement for human survival. Due to weather variations and other variables, many farmers in India are not receiving the anticipated crop output. In this situation, timely advice must be given to farmers in order to forecast future agricultural productivity, and analysis must be done in order to help farmers to increase crop production.
2.	Idea / Solution description	Utilizing statistical techniques to forecast crop output across multiple regions allows for the estimation of the best crop production, allowing farmers to benefit from the forecast. Additionally, to increase agricultural productivity and decrease waste.
3.	Novelty / Uniqueness	<ul style="list-style-type: none"><li>Identifying appropriate meteorological conditions and soil types for each crop by visually showing the relationship between numerous parameters.</li><li>Enhanced and precise visualization.</li></ul>
4.	Social Impact / Customer Satisfaction	Farmers will be able to recognize the ideal growing conditions so they may make plans to boost crop yield and income.
5.	Business Model (Revenue Model)	Numerous factors, including soil fertility, climate, rainfall, and others, will have an impact on crop output, which will have an impact on revenue. Crop yields and income are increased through examination of each factor's ideal conditions..
6.	Scalability of the Solution	Crop yield can be boosted by using the knowledge gained through the examination of many parameters, such as weather patterns and soil types.