

Project Design Phase-I
Proposed Solution Template

Team ID	PNT2022TMID20635
Project Name	Estimate the Crop Yield using Data Analytics
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement	Utilising data analytics to increase the productivity of agricultural processes
2.	Idea / Solution description	This experiment suggests that the analysis of agricultural data aids in crop yield forecast, crop health monitoring, and other similar tasks.
3.	Novelty / Uniqueness	The collection includes details on the crops in different Districts, States, Seasons, and regions. Therefore, considering all of these details, a well studied report will help farmers decide which crop is appropriate for their region and growing season in order to improve yield.
4.	Social Impact / Customer Satisfaction	Through this project, agricultural analytics are guiding how farmers should control pests. In agriculture, hazardous insects are being dealt with scientifically using digital tools and data analysis. A farmer's revenues can swiftly be reduced by agricultural pests..
5.	Business Model (Revenue Model)	This project helps businesspeople, in addition to farmers, keep track on the crop's health in real time, which can help farmers determine the nutrients that are missing from the soil and take appropriate action. Many farmers experience a lack of harvest yield as a result of their ignorance of the actual state of the soil.
6.	Scalability of the Solution	The key benefit of this project is its scalability; in order to determine which regions need development, it is essential to understand the present levels of soil nutrients. With one of our LaquaTwin portable metres, you can carry in-field analysis in your pocket.