Project Design Phase-I
Proposed Solution Template

Date	17 october 2022
Team ID	PNT2022TMID27387
Project Name	Project – 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)	To improve the productivity in agricultural practices using data analytics
2.	Idea / Solution description	This project proposes The analysis of data related to agriculture helps in crop yield prediction, crop health monitoring and other such related activities
3.	Novelty / Uniqueness	The uniqueness of our proposed project is Big data provides farmers granular data on rainfall patterns, water cycles, fertilizer requirements, and more. This enables them to make smart decisions, such as what crops to plant for better profitability and when to harvest. The right decisions ultimately improve farm yields.
4.	Social Impact / Customer Satisfaction	Using this project, Analytics in agriculture are informing how farmers should manage pests. Digital tools and data analysis in agriculture are being utilized to scientifically deal with harmful insects. Agricultural pests can quickly cut into a farmer's profits.
5.	Business Model (Revenue Model)	This project not only for farmers also useful for businessmen to monitor the real-time health of the crop which can help the farmer to estimate the missing nutrients in the soil and act accordingly. Many farmers don't understand the real-time situation of soil and as a result, face a lack of production from the harvest.
6.	Scalability of the Solution	The main advantage of this project is its scalability it is crucial to understand the current nutrient levels of the soil to be able to ascertain which areas require improvement. Our LaquaTwin range of portable meters can provide in-field analysis in your pocket.