Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID50307
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)	Crop yield prediction is predicting the yield of a crop in future based on the dependent factors. Crop yield is dependent on factors like weather. This is achieved by (a) Designing a system to predict yield. (b) Providing graphical user interface to view(estimate) predict results.
2.	Idea / Solution description	To predict the yield, one of the machine learning algorithms called Multiple Linear Regression algorithm is used. The result of prediction is plotted via graph.
3.	Novelty / Uniqueness	By using of data analytics in crop yield estimation helps in analysing some important visualization, creating dashboard and by going through these we will get most of the insights of crop production in India.
4.	Social Impact / Customer Satisfaction	Customer(farmer) can satisfied by increased income, reduced crop loss and high yield.
5.	Business Model (Revenue Model)	Initially an raw data set was collected and subjected to analysis. From the dataset, it is subjected to feature selection for make a predictive modelling. Final representation represents the graphical result which is helpful for analysis or estimation of crops in specified rainfall.
6.	Scalability of the Solution	Effectively analysis large dataset. Easy to predict by using previous data.