Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID36477
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)	With the changing of climate. Agriculture faces increasing problems with extreme weather events loading to considerable yield losses of crops. Most often crop plants are sensitive to stresses since they were mostly selected for high yield, and stress tolerance.
2.	Idea / Solution description	1.Crop with climate changes, soil erosion and bio-diversity loss. 2.Satisfy consumers' changing tastes and expectation. 3.Most rising demand for more food of higher quality. 4.Inverst in form productivity. 5.Adopt and learn new technology.
3.	Novelty / Uniqueness	1.Quality of seeds. Agricultural productivity depends on the quality of seeds with which farmers sow their field. 2.Field productivity zoning. 3.Monitoring crops growth. 4.Accurate weather prediction. 5.Regular scouting. 6.Crop production method. 7.Soil testing and its quality.

4.	Social Impact / Customer Satisfaction	Satisfied customers are loyal customers and often provide repeat business referrals and word-of-mouth advertising. Higher satisfaction levels increase custom loyalty, reduce churn and the cost of acquiring new customer
5.	Business Model (Revenue Model)	Agriculture business involves not only farming but production, management, marketing of agricultural commodities live stacks and crops etc.…
6.	Scalability of the Solution	By improving the crop variety through cross-breeding and hybridization, the crop yield can be increased. The crop becomes resistant to biotic and abiotic stresses. For short-duration crops, the early maturing varieties can fit the crop into multiple cropping varieties.