Project Design Phase
Proposed Solution Template

Date	23 March 2025
Team ID	PNT2025TMID06795
Project Name	**Global Food Production Trends and Analysis A Comprehensive Study from 1961 to 2023 Using Power BI**
Maximum Marks	2 Marks

Proposed Solution Template:

The project team shall fill in the following information in the proposed solution template.

S.No.	Parameter	Description
1.	**Problem Statement** (Problem to be solved)	Global food production faces challenges due to climate change, inefficient resource allocation, and lack of data-driven insights. A comprehensive analysis of historical food production trends is needed to optimize agricultural strategies.
2.	**Idea / Solution Description**	This project leverages Power BI to analyze global food production trends from 1961 to 2023. It integrates datasets on crop yields, climate impact, and resource usage to provide interactive visual insights for policymakers, researchers, and farmers.
3.	**Novelty / Uniqueness**	- Combines historical data and real-time analysis for better decision-making. - Uses Power BI's advanced visualization and AI-driven trend forecasting. - Identifies patterns in food production efficiency across regions.
4.	**Social Impact / Customer Satisfaction**	- Helps policymakers make informed agricultural policies. - Enables farmers to adopt data-driven farming techniques. - Contributes to global food security by analyzing inefficiencies and suggesting improvements.
5.	**Business Model (Revenue Model)**	- Subscription-based model for advanced analytics dashboards. - Data-driven consulting services for governments and agribusinesses. - Premium access to AI-based forecasting and predictive insights.
6.	**Scalability of the Solution**	- Expandable to include new datasets and geographies. - Can integrate with AI-driven food demand forecasting models. - Compatible with cloud services for large-scale global deployment.