

**Project Design Phase-I**  
**Proposed Solution Template**

Date	24 September 2022
Team ID	PNT2022TMID26387
Project Name	Project – Estimate The Crop Yield Using Data Analytics
Maximum Marks	2 Marks

**Proposed Solution Template:**

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Crop production in India is one of the most important sources of income and India is one of the top countries to produce crops. As per this project we will be analysing some important visualization, creating a dashboard and by going through these we will get most of the insights of Crop production in India.
2.	Idea / Solution description	We are going to find the estimation of crop yield using data analytics. Data analytics in crop yield helps in analysing some important visualization, creating a dashboard and by going through these we will get most of the insights of Crop production in India. IBM Cognos Analytics integrates reporting, modelling, analysis, exploration, dashboards, stories, and event management. Using these we can understand our organization's data, and make effective decisions.
3.	Novelty / Uniqueness	This project differs from other existing projects by means of an interactive Dashboard. A dashboard helps to monitor events and activities at a glance by providing key insights and analysis about our data on one or more pages or screens. In this project Estimate the crop yield using data analytics, we visualize and analyse and gain most of the insights by creating a dashboard and System design defines the architecture, data flow, use case, class, sequence, and activity diagrams of the project development.
4.	Social Impact / Customer Satisfaction	A customer satisfaction survey would be taken to measure the satisfaction of the customers. Using this survey results we can understand how well customers' expectations are being met.

5.	Business Model (Revenue Model)	<pre> graph TD     A[Identify the needs] --&gt; B[Strategize solutions]     B --&gt; C[Implement solutions]     C --&gt; D[Measure effectiveness]     D --&gt; A     E((Crop prediction)) --&gt; A     E --&gt; B     E --&gt; C     E --&gt; D </pre>
6.	Scalability of the Solution	<p>Scalability is an aspect or rather a functional quality of a system, software or solution. This proposed system for crop yield prediction can accommodate expansion without hampering the existing workflow and ensure an increase in the output or efficiency of the process.</p>