**PROJECT DESIGN PHASE – I**

**PROPOSED SOLUTION**

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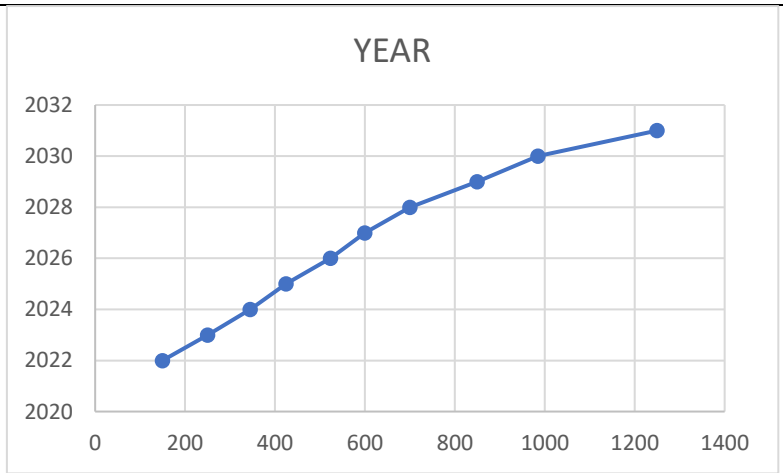
| DATE | 27-09-2022 |
| TEAM ID | PNT2022TMID01702 |
| PROJECT NAME | IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE |
| MAXIMUM MARKS | 4 MARKS |

| S.No | Parameter | Description |
|---|---|---|
| **1.** | Problem Statement (problem to be solved) | • A vast majority of the people are invariably affected by the production of crops. Farmers, for example, rely on them for their survival.<br>• The consumers, on the other hand, depend on the crops as it provides them with a multitude of utilities.<br>• It therefore, becomes essential to protect and maintain these crops. |
| **2.** | Idea / Solution Description | • In this project, we propose a solution which integrates different technologies like IoT and sensor fusion.<br>• The information collected from the above step is stored in an IoT cloud.<br>• We also aim to track the location where an intrusion has been detected using beacons. This is later notified to the user via an SMS/email |
| **3.** | Novelty / Uniqueness | • Can give results with high Precision<br>• Futuristic problem occurs in updating<br>• Maintain by ourself<br>• User friendly to access |
| **4.** | Social Impact / Customer Satisfaction | • Reduce the need for manual labour<br>• Increased Protection<br>• Crop monitoring within remote location |
| **5.** | Business Model (Revenue Model) |  |
| **6.** | Scalability of the Solution | • It refers to the adaptability of a system to increase the capacity and the number of technology devices such as sensors and actuators |