

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

Date	30 September 2022
Team ID	PNT2022TMID11072
Project Name	IOT based smart crop protection system for agriculture
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)	Agriculture is back bone of our country, but as a impact, crops will get damage due to the animals and birds which leads to less productivity in food.
2.	Idea / Solution description	Implementing IOT based sensor application for protecting crops from animals and birds. This system also helps farmers to monitor the soil moisture levels in the field and also the temperature and humidity values near the field. The motors and sprinklers in the field can be controlled using the mobile application.
3.	Novelty / Uniqueness	Our whole system will take care of entire safety of the field, special protection against harmful animals, provides crop safety against climatic conditions, moisture of the soil is also protected and processes like fertilization, irrigation, pest control are controlled remotely by the farmers.
4.	Social Impact / Customer Satisfaction	It save the time of the farmers, gives increased productivity of crops, quality of the crops are highly maintained overall customers expectations are produced and also it is cost efficient.
5.	Business Model (Revenue Model)	It brings profit among the farmer sector. Agriculture platform, serves great service in terms of economical growth it increases the sales in business sector.
6.	Scalability of the Solution	It emerge as a great solution and a eco friendly in nature