Proposed Solution Template

Date	18 OCTOBER 2022
Team ID	PNT2022TMID14113
Project Name	IOT Based Smart Crop Protection System For Agriculture
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	• Crops are properly not irrigated due to insufficient labour forces. • Requires protecting crops from Wild animals attacks, birds and pests. • In environmental factors such as temperature climate, topography and soil quality which results in crop destruction because of crops against various.
2.	Idea / Solution description	• Moisture sensor is interfaced with Arduino Microcontroller to measure the moisture level in soil and relay is used to turn ON and OFF. • The motor pump for managing the excess water level. It will be updated to authorities through IOT. • IOT based fertilizing methods are followed, to minimize the negative effects on growth of crops while using fertilizers. • Image processing techniques with IOT is followed for crop protection against animal attacks.
3	Novelty / Uniqueness	• Using the IoT Technology of Automated crop maintenance and protection of embedded system. • The increasing demand for qulity foor.
4	Social Impact / Customer Satisfaction	• This proposed system provides many facilities which helps the farmers to maintain the crop field without much loss.
5	Business Model (Revenue Model)	• As the product usage can be understand by everyone ,it is easy for them to use it properly for their saftest organisation

		• This prototype can be developed as product with minimum cost with high performance
6	Scalability of the Solution	• This can be developed to a scalable product by using sensors and transmitting the data through Wireless Sensor Network and Analysing the data in cloud and operation is performed using robots