Project Design Phase-I
Proposed Solution Template

Date	5 October 2022
Team ID	PNT2022TMID32036
Project Name	Project - IoT Based Smart crop protection 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)	When conditions are too humid, it may promote the growth of mold and bacteria that cause plants to die and crops to fail, as well as conditions like root or crown rot. Humid conditions also invite the presence of pests, such as fungus gnats, whose larva feed on plant roots and thrive in moist soil.
2.	Idea / Solution description	For this problem we are plan to create an app which shows the humidity level of the crop and the condition of the crop.Temperature and humidity sensors are among the most commonly used environmental sensors. Humidity sensors are also sometimes referred to as hygrometers. These devices are used to provide the actual humidity condition within the air at any given point or in any given place.
3.	Novelty / Uniqueness	We will implement that the crop status and tge condition of the crop. The crop growth is based on the humidity of the crop if the moisture status is high we could not pour more water for that crop we can change the crop growth by soil condition. We detect the soil and we can change the fertilizer and water consistency of the crop. Now a days many humidity problems

		are occur by over project we overcome that problem and it is very helpful for the farmers.
4.	Social Impact / Customer Satisfaction	This will create a healthy and organic crop protection. In our world many crops are affected due the humidity level and moisture level of the crop. From this process we can improve the crop protection. Many crops are damaged and farmers get loss and their family get affected due to this problem. So our project helpful to overcome this problem.
5.	Business Model (Revenue Model)	Selling the product to the farmers and to the government with a device and six months free subscription for live tracking and notification service so that they will understand the usage of the device. If they like this usage of the device they can pay and get the subscription for different duration and packs. By using this device farmers are get relaxed and crop growth was increased.
6.	Scalability of the Solution	The continuous detection of the crop humidity level and storing the status of the past condition of the crop has visited in a data base for the use of any emergency purposes