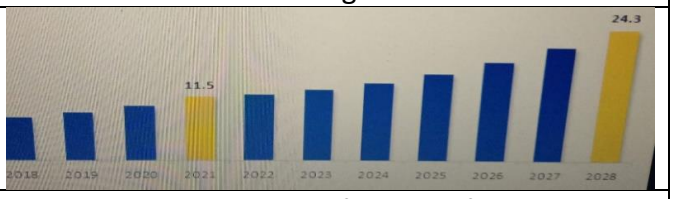
Project Design Phase-I
Proposed Solution Template

Date	26-09-2022
Team ID	PNT2022TMID40857
Project Name	Smart Farmer – IOT Enabled Smart Farming Application
Maximum Marks	4 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)	○ Most of the farmers use large portions of farming land and it becomes very difficult to reach and track each corner of large lands. Sometime there is a possibility of uneven water sprinkles. ○ Challenges faced by IOT in agriculuture are high adoption, security concerns, information lackness.
2.	Idea / Solution description	○ Smart Farming has enabled farmers to reduce waste and enhance productivity with the help of sensors (light, humidity, temperature, soil moisture,etc..) ○ Further with the help of these sensors, farmers can monitor the field conditions from anywhere.
3.	Novelty / Uniqueness	○ Role of SENSORS : IOT smart agriculture products are designed to help monitor crop fields using sensors and by automating irrigation systems. ○ As a result, farmers and associated brands can easily monitor the field conditions from anywhere without any hassle.
4.	Social Impact / Customer Satisfaction	○ Water conservation ○ Saves lot of time ○ Increased quality of production ○ Real time data and production insight. ○ Remote monitoring.
5.	Business Model (Revenue Model)	
6.	Scalability of the Solution	○ Scalability in smart farming refers to the adaptability of a system to increase the

		capacity , the number of technology devices such as sensors and actuators.