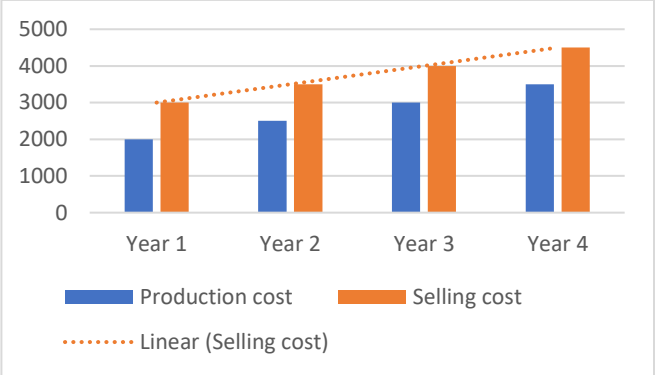
Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID19113
Project Name	SmartFarmer - IoT Enabled Smart Farming Application
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)	To facilitate the farmer's work easy, by way of helping them to make the agriculture activities much smarter.
2.	Idea / Solution description	◆ IoT-based agriculture system helps the farmer in monitoring different parameters of his field like soil moisture, temperature, and humidity using some sensors. ◆ Farmers can monitor all the sensor parameters by using a mobile application even if the farmer is not near his field. Watering the crop is one of the important tasks for the farmers. ◆ They can make the decision whether to water the crop or postpone it by monitoring the sensor parameters and controlling the motor pumps from the mobile application itself. ◆ Similarly, they can also sprinkle the liquid type insecticides by rain pipe system and weedicides by the piping system. ◆ Also, they will be able to know the plant's lifetime by using the some of the parameters of his field. So that it will help him to make further decisions as per need. ◆ Along with it all, he can also be able to control the Animal Repeller system which is kept in the field.
3.	Novelty / Uniqueness	◆ By getting to observe all the parameters of the field with the help of the mobile application, farmer can easily control the motors and irrigate the field ◆ Rain pipe system for sprinkling liquid type insecticides ◆ Piping system for spraying weedicides across the field ◆ Predicting plant's lifetime to make further decisions

		Animal Repeller system to protect the field
4.	Social Impact / Customer Satisfaction	◆ This solution helps a lot of farmers as well as the persons who are all taking care of the plantations ◆ It will become a needed one for the one who wants to save time, manpower and do the work in a smarter way
5.	Business Model (Revenue Model)	◆ We can get a better profit on this. Since, we are providing an easiest way for the farmers to reduce their work holds 
6.	Scalability of the Solution	This solution is scalable, but it is based upon the user that how frequently they are using this