

## PROJECT DESIGN PHASE - I

### PROPOSED SOLUTION

Team ID	PNT2022TMID15443
Project Name	Smart farmer - IOT Enabled Smart Farming Application

#### PROPOSED SOLUTION:

S.No	Parameter	Description
1	<b>Problem Statement (Problem to be solved)</b>	<ul style="list-style-type: none"><li>• Our project will give the solution to overcome these problems with help of IOT.</li><li>• In agriculture, there are two major problems one is unpredictable climate change and another one is the yields of the crops that have been damaged by improper irrigation.</li></ul>
2	<b>Idea / Solution description</b>	<ul style="list-style-type: none"><li>• It collects the data from different types of sensors and it sends the value to the main server.</li><li>• It also collects the weather data from the weather API.</li><li>• The ultimate decision, whether to water the crop or not is taken by the farmer using mobile application.</li></ul>
3	<b>Novelty / Uniqueness</b>	<ul style="list-style-type: none"><li>• It depends on IOT thus eliminating the need of physical work of farmers and thus</li></ul>

		<p>increasing the productivity in every possible manner.</p> <ul style="list-style-type: none"> <li>• The weather data are taken from the reliable source</li> </ul>
4	<b>Social Impact / Customer Satisfaction</b>	<ul style="list-style-type: none"> <li>• The information collected are from reliable sources and hence the farmer could make more precise decision, thereby the productivity increases.</li> </ul>
5	<b>Business Model (Revenue Model)</b>	<ul style="list-style-type: none"> <li>• Smart farming is an advanced and innovative way to get maximum cultivation and minimize the human efforts.</li> </ul>
6	<b>Scalability of the Solution</b>	<ul style="list-style-type: none"> <li>• Automatic farming equipment adjustment is made feasible by integrating information such as crops/weather and equipment to automatically alter temperature, humidity, and so on.</li> <li>• With the use of sensors, it has enabled Farmers to reduce waste and increase output.</li> </ul>