

**Project Design Phase-I**  
**Proposed Solution Template**

Date	20 September 2022
TeamID	PNT2022TMID15739
Project Name	IOT Based Smart Crop Protection System For Agriculture.
MaximumMarks	2Marks

**ProposedSolutionTemplate:**

S.No.	Parameter	Description
1.	ProblemStatement(Problemto be solved)	Develop an efficient system & an application that can monitor and alert the users(farmers)
2.	Idea/Solution description	<ul style="list-style-type: none"> <li>➤ This product helps the field in monitoring the animals other disturbance</li> <li>➤ In several areas, the temperature sensors will be integrated to monitor the temperature &amp; humidity</li> <li>➤ If in any area feel dry or wetless is detected by admins, will be notified along with the location in the web application</li> <li>➤ Access all the sensor remotely and change the sensors</li> </ul>
3.	Novelty/Uniqueness	<ul style="list-style-type: none"> <li>➤ Fastest alerts to the farmers</li> <li>➤ The increasing demand for quality food</li> <li>➤ Providing good quality product for customer.</li> <li>➤ Avoid all the unwanted products and animals.</li> </ul>
4.	Social Impact/Customer Satisfaction	<ul style="list-style-type: none"> <li>➤ Easy installation and provide efficient results</li> <li>➤ the optimisation of all the processes related to agriculture and livestock-rearing increases production rates.</li> <li>➤ weather forecasts and sensors that measure soil moisture mean watering only when necessary and for the right length of time.</li> </ul>
5.	Business Model(Revenue Model)	<ul style="list-style-type: none"> <li>➤ As the product usage can be understood by everyone, it is easy for them to use it properly for their safest organization</li> <li>➤ The product is advertised all over the platforms. Since it is economical, even helps small scale farming land from disasters.</li> </ul>
6.	Scalability of the Solution	<ul style="list-style-type: none"> <li>➤ The role of crop protection in an Integrated system is, additional to all the other methods, to efficiently control the residual harmful species, with</li> </ul>

		<p>minimal use of well selected pesticides</p> <p>➤ ICP focuses on the real problems, namely the residual ones, after all other methods are designed and optimised.</p>
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