

## Project Design Phase-I Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID46764
Project Name	Hazardous area monitoring for industrial plant powered by IOT
Maximum Marks	2 Marks

### Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
•	Problem Statement (Problem to be solved)	<ul style="list-style-type: none"> <li>An accident occurs in an industrial plant and an alarm sounds to alert.</li> <li>The industrial plant area is surrounded by people and thus there are many dangerous areas .So people should be kept in separate place.</li> <li>If the waste material in the industrial plant is not exported ,the disease will come and it will affect the people in the area.</li> </ul>
•	Idea / Solution description	<p><b>Idea :</b></p> <ul style="list-style-type: none"> <li>If there is a failure in a hazardous area inside an industrial plant, there is loss of production, human loss, loss of property etc.</li> <li>Radiation in an industrial plant can affect people if it emits a certain limit.</li> </ul> <p><b>Solution Description :</b></p> <ul style="list-style-type: none"> <li>So if the industrial plant is in a private place, there will be no problem.</li> <li>The radiation emitted by the industrial plant can be protected by sensor to protect people from spreading too much.</li> </ul>
•	Novelty / Uniqueness	<p><b>Novelty :</b></p> <ul style="list-style-type: none"> <li>Total care schemes are now a common feature in the sales of</li> </ul>

		<p>power generation and propulsion plant.</p> <ul style="list-style-type: none"> <li>Intelligent condition monitoring is a relatively new concept in this field and introduces prognostic capability.</li> </ul> <p><b>Uniqueness :</b></p> <ul style="list-style-type: none"> <li>Temperature sensors are low - cost ,precise ,and extremely reliable in repeated experiments.They are desirable for both embedded and surface mount applications.</li> <li>The use of these technologies can make a huge impact in maintaining the industrial machinery.</li> </ul>
<ul style="list-style-type: none"> <li></li> </ul>	Social Impact / Customer Satisfaction	<p><b>Social Impact :</b></p> <ul style="list-style-type: none"> <li>It emits toxic fumes that affect the body and cause severe disease.</li> <li>The industrial plant occupied a farming land.</li> <li>The industrial waste is mixed with water used by people.</li> </ul> <p><b>Customer Satisfaction :</b></p> <ul style="list-style-type: none"> <li>The industrial plant create employment for the people through man power and contributes to the economy of the place.</li> <li>Exports the products produced by the industry to foreign countries.</li> <li>All the products coming out through the industrial process are of quality.</li> </ul>
<ul style="list-style-type: none"> <li></li> </ul>	Business Model (Revenue Model)	<ul style="list-style-type: none"> <li>When the dealing or the transaction take place between two companies.</li> <li>High traffic blog that place ads to earn profit.</li> <li>You make money by selling goods and services to consumers,online and in person.</li> </ul>
<ul style="list-style-type: none"> <li></li> </ul>	Scalability of the Solution	<ul style="list-style-type: none"> <li>The ability of a computer application or product (<b>hardware or software</b>) to continue to function well when it is changed in size or volume in order to meet a user need.</li> <li>An application program would be scalable if it could be moved from a</li> </ul>

		smaller to a larger operating system.
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