# Project Design phase-I
# Proposed Solutions

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| Date | 20 September 2022 |
| Team ID | PNT2022TMID46726 |
| Project Name | Hazardous area monitoring for industrial plant powered by IOT |
| Maximum Marks | 2 Marks |

| S.NO | Parameter | Description |
|---|---|---|
| 1. | Problem Statement(Problem to be solved) | To monitor and alert the Industrial workers the risk of toxic or hazardous gases present with in the area of an industry, ensuring the safety of the workers. |
| 2. | Idea/Solution description | Providing a wearable device which collects the data (temperature) via beacon sensors and display it. An alert message is also sent to mobile whenever high temperature or toxic gases are detected within the area through SMS using API. |
| 3. | Novelty/Uniqueness | ● Provides various solutions to ensure safety of workers. <br> ● Wearable devices display the current temperature in the area at all times. <br> ● Alerts via SMS to workers' mobiles when high temperature is detected. <br> ● Alerts occur simultaneously on both the wearable device and the mobile app to prevent worker entry into hazardous. |
| 4. | Social Impact/Customer Satisfaction | ● Comfortable & User-friendly. <br> ● Simple and reliable. <br> ● Helps in taking necessary precautions to avoid the risk of endangering human lives. <br> ● Necessary updates and more functions can be added to the mobile application to make it easier to use. |
| 5. | Business Model(revenue Model) | ● Wearable devices can be priced and sold by the industry to the workers <br> ● Through our mobile application the revenue can be made in the form of pop-up advertisements, overlay ads from third party services. |
| 6. | Scalability of the Solution | ● Multiple users can receive alert messages and notifications |

| | | simultaneously regarding hazardous gases without any delay |
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| | | ● Each user has individual wearable device and mobile devices. |