

Project Design Phase-I
ProposedSolution
Template

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| Team ID | PNT2022TMID20612 |
| Project Name | Hazardous Area Monitoring For Industrial Plant Powered By IoT |

Proposed Solution Template:

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

| S.No. | Parameter | Description |
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| 1. | Problem Statement (Problem to be solved) | To monitor and alert the industrial workers of the risk of toxic or hazardous gasses present within 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 displays it. An alert message is also sent to mobile whenever high temperature (or) toxic gasses are detected within the area through SMS using API. Ensuring precautions and safety of the workers. |
| 3. | Novelty / Uniqueness | <ul style="list-style-type: none">• Makes it easier to know the temperature (or) any hazardous gasses present in the area without the worker having to constantly do manual checks.• Alerts on both the wearable device and mobile application occur simultaneously to prevent the worker from entering into hazardous areas. |

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| 4. | Social Impact / Customer Satisfaction | <ul style="list-style-type: none"> • Ensures safety. • Saves lives of workers. • Comfortable & User-friendly. • Simple and reliable. |
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| 5. | Business Model (Revenue Model) | <ul style="list-style-type: none"> • Through our mobile application the revenue can be made in the form of pop-up advertisements, overlay ads from third party services. • Wearable devices can be priced and sold by the industry to the workers. |
| 6. | Scalability of the Solution | <ul style="list-style-type: none"> • Huge. people can be supplied with wearable devices to ensure their safety and also Beacon sensors cover a large amount of area and supply data accurately and more readily. • Every individual has to hols with wearable devices and mobile devices which provide information accordingly. • It ensures the safety of each and every worker working in harmful gasses and high temperature environments.. |