**TEAM ID**:PNT2022TMID01003

Proposed Solution Template

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| **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 presents 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 gases are detected within the area through  SMS using API. Ensuring precautions and safety  of the workers. |
| **3** | Novelty / Uniqueness | * Makes it easier to know the   temperature (or) any hazardous gases  present in the area without the worker  having to constantly doing manual  checks.   * Provides different solution to ensure   the safety of the workers.   * Wearable devices display the current   temperature present in the area all the  time.   * Alerts via SMS to |

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|  |  | mobiles of the workers when high temperature is detected.   * Alerts on both the wearable device and mobile application occurs simultaneously to prevent the worker   from entering into hazardous areas. |
| **4** | Social Impact / Customer Satisfaction | * Ensures safety. * Saves lives of workers. * Comfortable & User- friendly. * Simple and reliable.• Helps in taking necessary precautions   to avoid the risk of endangering human lives.   * Necessary updates and more functions   can be added to the mobile application  to make it easier to use. |
| **5** | Business Model (Revenue Model) | * 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 | * Large no. of people can be supplied   with the wearable devices to ensure  their safety.   * Beacon sensors cover large amount of   area and supplies data accurately and  more readily. |

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|  |  | * Multiple users can receive alert   messages and notifications simultaneously regarding hazardous  gases without any delay.   * Each user has individual wearable   device and mobile devices which  provide information accordingly.   * It ensures the safety of each and every   worker working in harmful gases and  high temperature environment |