

Project Design Phase-I
Proposed Solution Template

Date	23 September 2022
Team ID	PNT2022TMID42278
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
1.	Problem Statement (Problem to be solved)	Difficulty in continuous manual monitoring of temperature and communication in hazardous areas.
2.	Idea / Solution description	<p>The hazardous area is integrated with smart temperature beacons which will be sensing and broadcasting the temperature of that particular area. Every person working in those areas will be given smart wearable devices which will be acting as beacon scanners. Whenever the person goes near the beacons, he can view the temperature on his wearable device and if the temperature is high, he will receive the alerts to the mobile through SMS using API.</p> <p>Through this wearable device, the data is sent to the cloud database and through which the dashboard, the admins of that particular plant can view the data and take necessary actions if required.</p>
3.	Novelty / Uniqueness	Smart wearable devices are used. Advanced monitoring through beacons
4.	Social Impact / Customer Satisfaction	Due to safe environment, workers can work efficiently. More focus on work without any fear.
5.	Business Model (Revenue Model)	Can be implemented in different hazardous areas. Can make the wearables more advanced and customizable to ones need.
6.	Scalability of the Solution	By increasing the number of devices, this can be implemented in a commercial level. In future, other elements like radiation and gases can also be monitored.