

Project Design Phase-I
Proposed Solution Template

Team ID	PNT2022TMID30680
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)	Trouble in nonstop manual observing of temperature and communication in dangerous areas.
2.	Idea / Solution description	The unsafe region is coordinates with shrewd temperature guides which can be detecting and broadcasting the temperature of that specific range. Each individual working in those areas will be given keen wearable gadgets which is able to act as guide scanners. At whatever point the individual goes close the reference points, he can see the temperature on his wearable gadget and in case the temperature is tall, he will get the alarms to the versatile through SMS utilizing API. Through this wearable gadget, the information is sent to the cloud database and through which the dashboard, the admins of that specific plant can see the information and take fundamental activities on the off chance that required.
3.	Novelty / Uniqueness	A hazardous area is any area with an atmosphere containing, or potentially containing, gases, vapour or dust which are flammable or explosive. Keen wearable gadgets are used. Advanced checking through beacons.
4.	Social Impact / Customer Satisfaction	Due to secure environment, labourers can work efficiently. More centre on work without any fear. <ul style="list-style-type: none"> Automated detection Real-time plant monitoring To prevent pollution
5.	Business Model (Revenue Model)	Can be actualized completely different perilous areas. Can make the wearable more progressed and customizable to one's need.
6.	Scalability of the Solution	By expanding the number of gadgets, this will be actualized in a commercial level. In future, other components like radiation and gasses can moreover be monitored.

