

Project Design Phase-I Proposed Solution Template

DATE	19 SEPTEMBER 2022
TEAM ID	PNT2022TMID03488
PROJECT NAME	Hazardous Area Monitoring for Industrial Plant powered by IoT
MAXIMUM MARKS	2 Marks

Proposed Solution Template :

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<ul style="list-style-type: none"> ○ 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 beacon scanners 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. ○ Through this wearable device, the data is sent to the cloud and through the dashboard, the admins of that particular plant can view the data and take necessary precautions if required.
2.	Idea / Solution description	<ul style="list-style-type: none"> ○ The handheld devices act as a free gateway to the internet for the BLE network ensuring ease of use and no additional costs. ○ Bluetooth temperature sensor can carry additional sensors like humidity, shock, tamper etc.
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> ○ Temperature raise in some other places like boilers can be avoided by pre spraying the automatic sprinklers.
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> ○ Avoids large scale hazards in industries and saves the environment and people.
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> ○ Sells BLE beacon with indoor positioning services or build indoor positioning service as service
6.	Scalability of the Solution	<ul style="list-style-type: none"> ○ By using BLE device, we can sense more physical parameters of different sensors. ○ Connect more number of beacons using BLE.

