Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID10955
Project Name	Project - 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
•	Problem Statement (Problem to be solved)	To monitoring industrial parameter monitoring and power consumption control.
•	Idea / Solution description	The industrial devices are controlled using cloud server which alerts the admin about uneven conditions using Bluetooth.In short automation has become an important term, whether at home or the industries.
•	Novelty / Uniqueness	Relays can switch AC and DC, transistors can only switch DC. Relays can switch high voltages, transistors cannot.
•	Social Impact / Customer Satisfaction	Relays are bulkier than transistors for switching small currents. Relays cannot switch rapidly (except reed relays), transistors can switch many times per second. Relays use more power due to the current flowing through their coil.
•	Business Model (Revenue Model)	Industrial parameters are temperature, humidity, gas and fire. These parameters are continuously

		monitored by ARM7 and send values to the android app using WIFI module.If any value goes above the threshold then it send SMS to supervisor and start the output devices.
•	Scalability of the Solution	We implement a GSM module based Embedded System concept. This Arduino based embedded system concept is to monitor and control industrial parameter such as (temperature, gas, fire,humidity) and inform to responsible person.