

## PROJECT DESIGN PHASE – I

### SOLUTION ARCHITECTURE

Date	19-10-2022
Team ID	PNT2022TMID30738
Project Title	Project - Hazardous Area Monitoring for Industrial Plant powered by IoT
Maximum Marks	4 Marks

#### Solution Architecture:

- The reach of IOT based systems in industrial areas is still limited, but it has huge potential.
- The system actively records, processes and analyzes the temperature of surroundings, which is a prime safety parameter in areas where molten metals are processed, manufacturing is done or welds are made.
- Also, it keeps track of high levels of dangerous gases present in the environment (LPG/Natural gas).
- If a parameter is violated, the system sends an immediate notification to a set of preset list of users on their smartphones, and continues logging and monitoring data for further analysis to improvements in the safety regulations.
- The sensors used in this prototype model can be modified with industrial requirements.

#### Solution Architecture Diagram:

