## Project Design Phase-II Solution Requirements (Functional & Non-functional)

Date	22 October 2022		
Team ID	PNT2022TMID49260		
Project Name	Hazardous area monitoring for industrial power		
	plant powered by IoT		
Maximum Marks	4 Marks		

## **Functional Requirements:**

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)			
FR-1	User Registration	Registration through Form			
		Registration through Gmail			
		Registration through LinkedIn			
FR-2	User Confirmation	<ul> <li>Confirmation via Email</li> </ul>			
		Confirmation via OTP			
FR-3	Monitoring	To monitor the condition of area			
		To monitor the temperature			
		To monitor these places will be given a			
		wearable device which will be acting as a			
		beacon scanner			
FR-4	Remote Temperature	Using LM35 Sensor and Intimate			
	monitoring				
FR-5	Module	Arduino module is displayed in(16x2LCD)			
		Analog to digital(ADC) converter is used to			
		measure the Voltage and current.			
		LED glow when there is some gas leak			

## **Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description		
NFR-1	Usability	Area monitoring are great tool that can used to see whether gas hazards on your place		
NFR-2	Security	More secure and receive alert to the mobile through SMS		
NFR-3	Reliability	Reliable communication between workers and fixed base station		
NFR-4	Performance	Model will achieve high accurancy with good potential.		
NFR-5	Availability	Hazardous area monitoring using Embedded system and WSN		
NFR-6	Scalability	Scalable		