

Ideation Phase

Define the Problem Statements

Date	29 April 2023
Team ID	NM2023TMID21815
Project Name	Remote Pipeline Tunnel Temperature Monitoring System
Maximum Marks	2 Marks

Remote Pipeline Tunnel Temperature Monitoring System

The leading engineering and system integration providers needed exactly the right solution for a challenging gas pipeline application. The system integrator realized that monitoring the temperature of a gas pipeline tunnel is crucial for safe operations. In the confined space of a tunnel, temperature rises easily, and the overheating could cause pipeline fractures that could lead to gas leaks or even explosions. This may cause loss of property and human loss, so in order to overcome that a remote monitoring system is designed which is used to monitor temperature levels, gas leakage and also pressure at the gas pipeline tunnel at various places

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	People	Trying to use	I cannot use	I feel discomfort	Discomfort
PS-2	Lab Technician	Do my job perfectly	I cannot do	I feel not well	Anxiety
PS-3	Worker	Do over duty at night	I cannot do	I feel over pressured	Tension
PS-4	Industrial Person	Used in industrial structure	I cannot use	I feel over discomfort	Not to use the product

