

DEFINE THE PROBLEM STATEMENTS

Date	29 April 2023
Team ID	NM2023TMID10372
Project Name	Remote gas pipeline tunnel temperature monitoring system

Problem Statement:

Pipelines are prone to danger. When the temperature of the gas inside the pipeline increases, there is a chance of pipeline explosion. It can happen because of the expansion of gases inside the pipeline due to increased temperature.

So there is a need to continuously monitor the temperature inside the pipeline to decrease the risk of increasing temperature.



Problem Statement(PS)	I am	I'm trying to	But	Because	Which makes me feel
PS-1	a pipeline worker	Feel safe near pipeline	there is a danger of pipeline explosion	of increase in temperature of gas	Very terrified
PS-2	a customer	Build a system to monitor the temperature of the pipeline	there are difficulties in building the system	Of complexity in structure of circuits	frustrated