# PROBLEM STATEMENT

Gas leakage leads to various accidents resulting into both financial loss as well as human injures. The number of death due to the explosion of gas cylinders has been increasing in recent years. The reason for such explosion due to sub- standard cylinders , old valves, warn out regulators and lack of awareness using gas cylinders add to risks. Natural gases such as liquefied petroleum gas(LPG) are widely used in the whole world. LPG is used for cooking in home or hotel. It is also used in certain gas based industry. Although the procedure of installing based system is very tight, it could not give 100% guaranteed that the LPG system will not have leakage. The leakage of gas only can be detected by human nearby and if there are no human nearby, it cannot be detected. Inspections found that many LPG consumer are unaware of safety check of gas cylinders.

This system was developed by using IOT to give real time response to the user and the nearest fire station

In order to minimize or eliminate the hazard of gas leakage there is a need for a system to detect and alert on such incidence leading to the development of this project.