

GAS LEAKAGE MONITORING AND ALERTING SYSTEM

PROBLEM STATEMENT

Domestically we use natural gas and it is very useful for burning purposes. If this gas is leaked in our kitchens, offices or factories and not sensed in time, it may lead to a fatal disaster, and may cause human loss. For this purpose, we came forward with an idea of making such an electronic device to sense that leakage and alarm the respective persons to solve that leakage problem and save assets and human lives. It also down our economical rate.

Who does the problem affect?	It affects the living things such as humans, plants and animals.
When does the issue occurs?	A gas leak occurs when the fuel distribution system is damaged and gasoline escapes from the system. This can be very dangerous as gasoline is extremely flammable and can lead to a fire outbreak.
What is the issue?	Gas leaks can be hazardous to health as well as the environment. Even a small leak into a building or other confined space may gradually build up an explosive or lethal concentration of gas.
Why is it important that we fix the problem?	The problem needs to be fixed immediately because of LPG gas or fuel distribution system. though it may contain hazardous chemicals such as propane and butane etc. these chemical leakage leads to explosion and cause severe damage to the surroundings.
Where is the issue occurring?	<ul style="list-style-type: none">• Faulty Piping - Piping from outside gets the gas into the home by crisscrossing under it, to connect the appliances, to the source. This piping can, with time, become faulty and lose

	<p>its seal or even break off due to wearing off. This will, therefore, cause a gas leak.</p> <ul style="list-style-type: none">• Poor Ventilation - Carbon dioxide, along with natural and propane gas, can leak in the home due to poor ventilation or malfunctioned exhaust fans. Carbon monoxide can also leak into the home if the chimney is clogged. It is odourless, unlike natural gas and propane, hence a person may fall asleep and never wake up due to this.
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