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LPG Gas Leakage Detection and Monitoring System using IoT

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Abstract: *The problem of gas leakage and fire is often encountered in our day-to-day life. LPG, Liquified Petroleum Gas, is highly flammable gas used as fuel in heating appliances. Leakage of this gas raises the risk of building fire, suffocation or an explosion. The mentioned problem can be solved with the development of reliable techniques. To detect gas leakage. As soon as gas leakage will be detected, user will be notified via SMS and call so that he/she can turn off gas. In addition to these, it is often found that a person forgets to book gas cylinder due to his/her busy schedule. The main aim of this paper is to design an 10T based Smart Gas Management System. That will be able to detect gas leakage. With the help of load sensor, automatic booking of a gas cylinder is also facilitated. Notification is sent to the hooking agency to book a gas cylinder whenever load cell detects that the weight of gas cylinder has reached below a threshold value. At the same time, user will be notified about gas cylinder going empty*

Keywords: Gas Sensor, IOT (Internet Of Things), Load Cell, LPG (Liquified Petroleum Gas), Voice Module