**ABSTRACT**

Gas leakage can be a major problem with industrial sector and residential premises. One of the preventive methods to stop accident associated with the gas leakage is to install gas leakage detection kit at vulnerable places. The aim of this project is to present such a design that can automatically detect and stop gas leakage in vulnerable premises. A particular gas sensor has been used which has high sensitivity for propane (C3H8 ) and butane (C4H10).

Gas leakage system consists of GSM (Global System for mobile communications) module, which warns by sending SMS. A load cell is used to detect the amount of gas present in the cylinder. This system can also be used to request a refill if the gas level in the cylinder becomes low. This project provides the design approach on both software and hardware.