GSM Based Gas Leakage Detection & Prevention System for Disabled and Handicapped

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***Abstract* ---- Gas leakage and monitoring is a prodigious challenge with a number of industries, habitation areas and vehicles that runs on natural gas and LPG resources especially in developing countries, where gas usage is at sky-high and outrageous level. It is a runtime preventive system that provides hindrance to any causality with handicapped and disabled persons in our surrounding and societies. The purpose of this work is to provide safety to that class of people who themselves are not in position to take precautionary measures to save their precious lives. Specifically, this is a project in which we use a highly sensitive gas sensor with a portable C-16 gas detector which can detect more than 30 different gases or vapours. Also system includes GSM SIM 900 module which can send message so as to take useful cautions. Noteworthy part of this system is that it not only alerts or warns people but the accommodating factor is to provide a runtime safety by evacuating the leaked particles of combustible gas present in air on immediate basis, in case a custodian is not at home to take care of handicapped and disabled one's.**

***Keywords*: LPG – liquefied petroleum gas**

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