

**VISVESVARAYA TECHNOLOGICAL
UNIVERSITY, BELAGAVI**



**MINI PROJECT REPORT
OF
GAS LEAKAGE DETECTION**

Submitted by

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Under the Guidance

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DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

CERTIFICATE

Certified that the mini project work entitled "GAS LEAKAGE DETECTION USING AURDINO" is a bonafide work carried out by

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in partial fulfilment for the award of **BACHELOR OF ENGINEERING** in **INFORMATIONSCIENCEAND ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM** during the year 2022-2023 It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.

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ABSTRACT

Gas leakage is a critical safety concern in both industrial and residential settings. Accidental gas leaks can lead to catastrophic consequences, including fires, explosions, and health hazards. To mitigate these risks, efficient gas leakage detection systems have been developed and deployed.

This abstract outlines the key features and benefits of a gas leakage detection system designed to detect and respond to gas leaks promptly. The system utilizes a combination of sensors, data processing, and alert mechanisms to ensure timely and accurate identification of gas leaks.

The gas leakage detection system incorporates a network of gas sensors strategically placed in vulnerable areas. These sensors continuously monitor the ambient air for the presence of specific gases, such as methane, propane, or carbon monoxide, depending on the application.

Upon detecting the presence of a gas leak, the sensors relay the information to a centralized control unit. The control unit processes the data, analyses the severity of the leak, and triggers appropriate responses based on predefined safety protocols.