

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama” Belagavi – 590 010



PROJECT REPORT ON
“WATER LEAKAGE DETECTION AND
MONITORING SYSTEM”

Submitted in partial fulfillment of the requirements for the award of degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS & COMMUNICATION ENGINEERING

Submitted By

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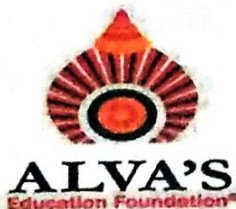
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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY
MOODBIDRI – 574 225.

2018-2019

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

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(Affiliated to VTU, BELAGAVI)

•DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the project work entitled "**WATER LEAKAGE DETECTION AND MONITORING SYSTEM**" is a bona fide work carried out by

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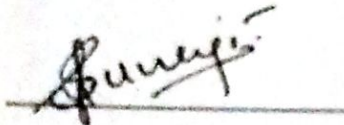
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in partial fulfillment for the award of **BACHELOR OF ENGINEERING** in **ELECTRONICS & COMMUNICATION ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the year **2018-2019**. It is certified that all corrections/suggestions 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

Water is one of the most important natural resources essential for our survival and it is supplied to cities through pipelines from water sources such as rivers and lakes. Non-Revenue Water (NRW) is the amount of water which has been produced and lost before reaching the customer. It may be due to leaks, illegal connections & faulty meters. In Indian cities like Bangalore, the amount of NRW is large and this points to the deteriorating health and efficiency of pipeline network.

Bearing in mind, the water leakage is a global issue that has already grown to become a critical issue in many areas, the objectives of the project are to develop a leak detector system and water monitor system, which use the concept of Internet of Things to monitor the data received from the system and take necessary actions when leaks are detected. The need of water requirement and its distribution is monitored through web interface based on water flow sensor value, to ensure equal and adequate water distribution to each connection (end point). The proposed system will help to reduce the leakage of water in the pipeline system and even it helps in monitoring the amount of water consumed by the user. The proposed system is the combination of leakage detection and monitoring system which helps in improving the pipeline system. Through the proposed system the user will be aware about the amount of water consumed and it can help to determine if there is any leakage in the home pipeline system.