# Jawaharlal Nehru Technological University Hyderabad
# College of Engineering Sultanpur

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**Department of Electronics and Communication Engineering**

## CERTIFICATE

Date:

*This is to certify that the major project work entitled "**PUBLIC WATER SUPPLY GRID MONITORING TO AVOID WATER THEFT USING IOT**" is a bonafide work carried out by **CH.SUMANTH, M.SOUJANYA, S.MAHITHA bearing** Roll No.**13SS1A0410, 13SS1A0434, 14SS5A0404** in partial fulfillment of the requirements for the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS & COMMUNICATION ENGINEERING** by the Jawaharlal Nehru Technological University, Hyderabad during the academic year 2016-2017.*

*The results embodied in this report have not been submitted to any other University or Institution for the award of any degree.*

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| **B. Prabhakar** | **B. Prabhakar** |
| **Associate Professor** | **Associate Professor** |
| **Project Guide** | **HOD – ECE Department** |

# DECLARATION

We do declare that the project work entitled **"PUBLIC WATER SUPPLY GRID MONITORING TO AVOID WATER THEFT USING IOT"** submitted by us in the Department of Electronics and Communication Engineering, JNTUH College of Engineering, Sultanpur in partial fulfillment of degree for the award of Bachelor of Technology in Electronics and Communication Engineering is a bonafide work, which was carried out under the supervision of Sri. B. Prabhakar, Associate Professor and Head, Department of ECE, JNTUHCES.

Also, we declare that the matter embedded in this thesis has not been submitted by us in full or partial thereof for the award of any degree of any other University or Institution previously.

Place: Signature of the Students

Date: (CH.SUMANTH)

(M.SOUJANYA)

(S.MAHITHA)

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# ABSTRACT

In urban areas the water supply to residence and commercial establishments are provided at a fixed flow rate. There are incidents of excess water drawn by certain customers/users i.e water will be released unofficially which is considered as water theft. In this project it is proposed to develop an embedded based remote water monitoring and theft prevention system by taking the data of water supply at the user end.

The overall objective of a distribution system is to deliver wholesome water to the consumer at particular area and in sufficient quantity and achieve continuity and maximum coverage at affordable cost. Here we are using AT89S52 as our controller and also few sensors are arranged to detect the presence of water in that particular pipeline. As logic level converters are used to detect the water flow.

All the details will be shown in the web server using IoT module connected to the controller. So that the authorities can take necessary action in case of misuse. This is an advanced, trouble-free, fit and forget system for water board.