

A Project Report Submitted To The
Visvesvaraiyah Technological University, Belgaum-590 014
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Entitled

**“Automated Water Supply Control and Maintenance Using
Microcontroller Application”**

In Partial Fulfilment of the Award Of The Degree Of

BACHELOR OF ENGINEERING IN ELECTRONICS AND COMMUNICATION

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ABSTRACT

Now a days in cities the water supply control and maintenance is very tedious, here is a new technique to prevent this problem. By using this technique we can control the city water supply by a single operator in control room, using Microcontroller. This project mainly aims the following objectives

1. Our project aims to implement water supply automated.
2. Here electronic gadget designed using microcontroller control the water supply.
3. Floating sensor is used to check water level in tank.
4. Leakage of pipe can detect by sensor, if found any leakage automatically valves are closed.
5. The main valves and their sub valves are controlled by gadget using cable;
6. After getting the signal the valve is opened controlly and water is supplied for prescribed duration and at the same time siren is bowed to inform the people and acknowledgement is sent back to the gadget.
7. Through internet people are priory informed about the time of water supply by sending sms to their cell phones.
8. When the duration of the time is met the signal is sent by the gadget to the valves and then the valve is closed.
9. Water meter put in the houses is used to measure the water usage, accordingly water bill has to be paid.
10. Some taps such as hotel, public taps, and bus depot are not affected, because they require continuous water supply.

This project mainly aims to ease the water department and also it is applicable to common people with minimum cost.