

Department of Electrical & Electronics Engineering

AUTOMATIC IRRIGATION SYSTEM

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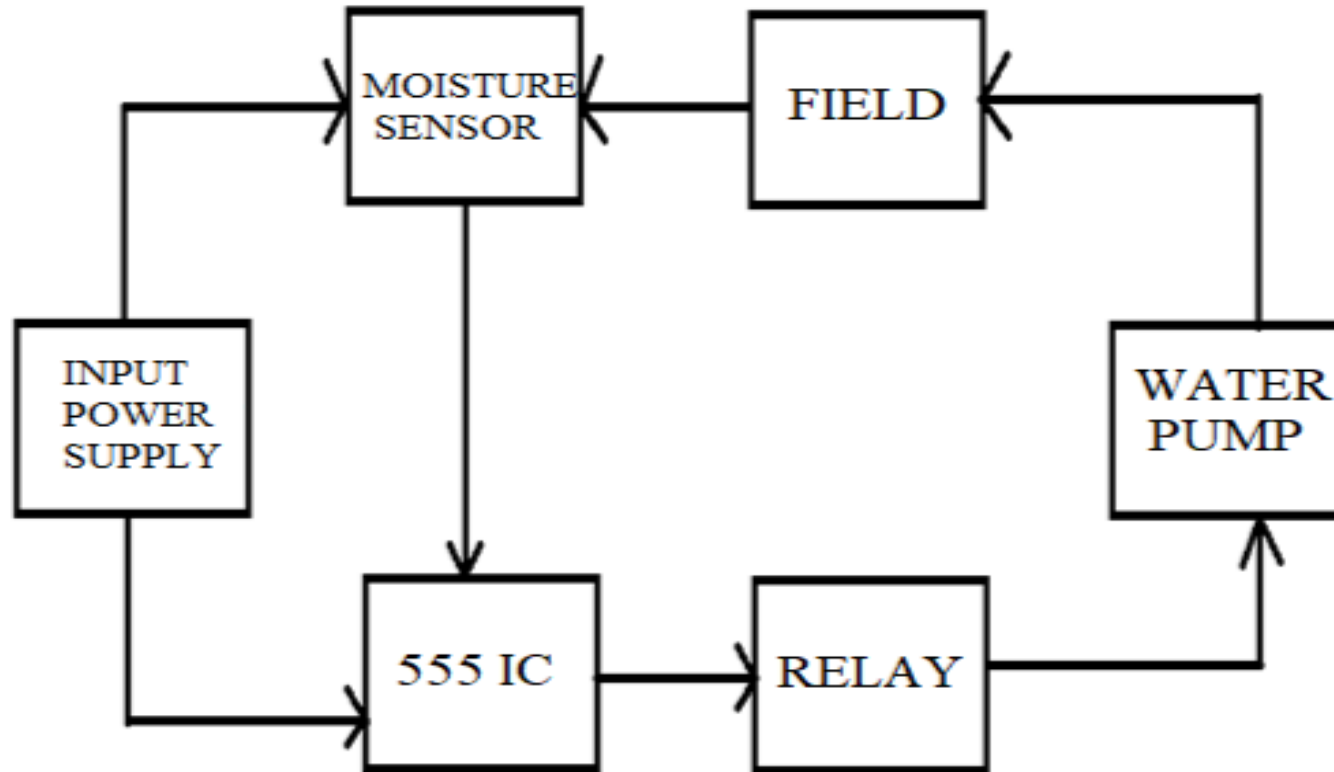
OBJECTIVES

- To watering gardens automatically based on moisture content present in the soil.
- To reduce the wastage of water and saving the life of crops from drought factors.

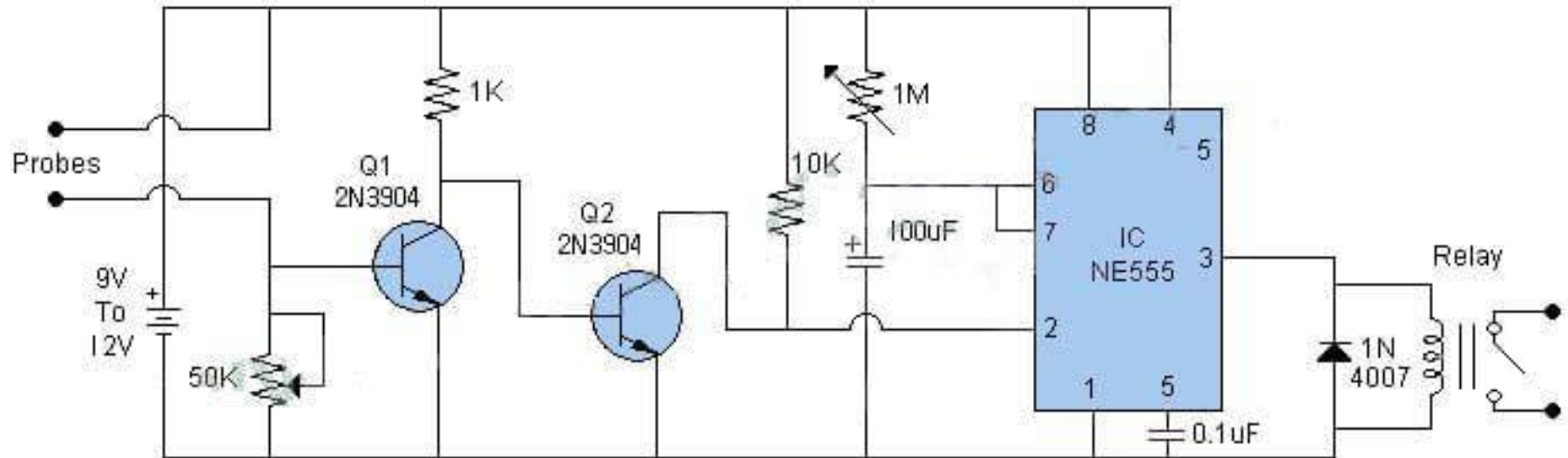
INTRODUCTION

- This project is a soil moisture monitoring system ,which detects the moisture content present in the soil .
- In this system the irrigation system of plants can be controlled.
- It avoids the suffering of plants and crops.
- It is the simple and easy method to watering the gardens.
- The implementation of this technology has a wide scope in the nearby future

BLOCK DIAGRAM



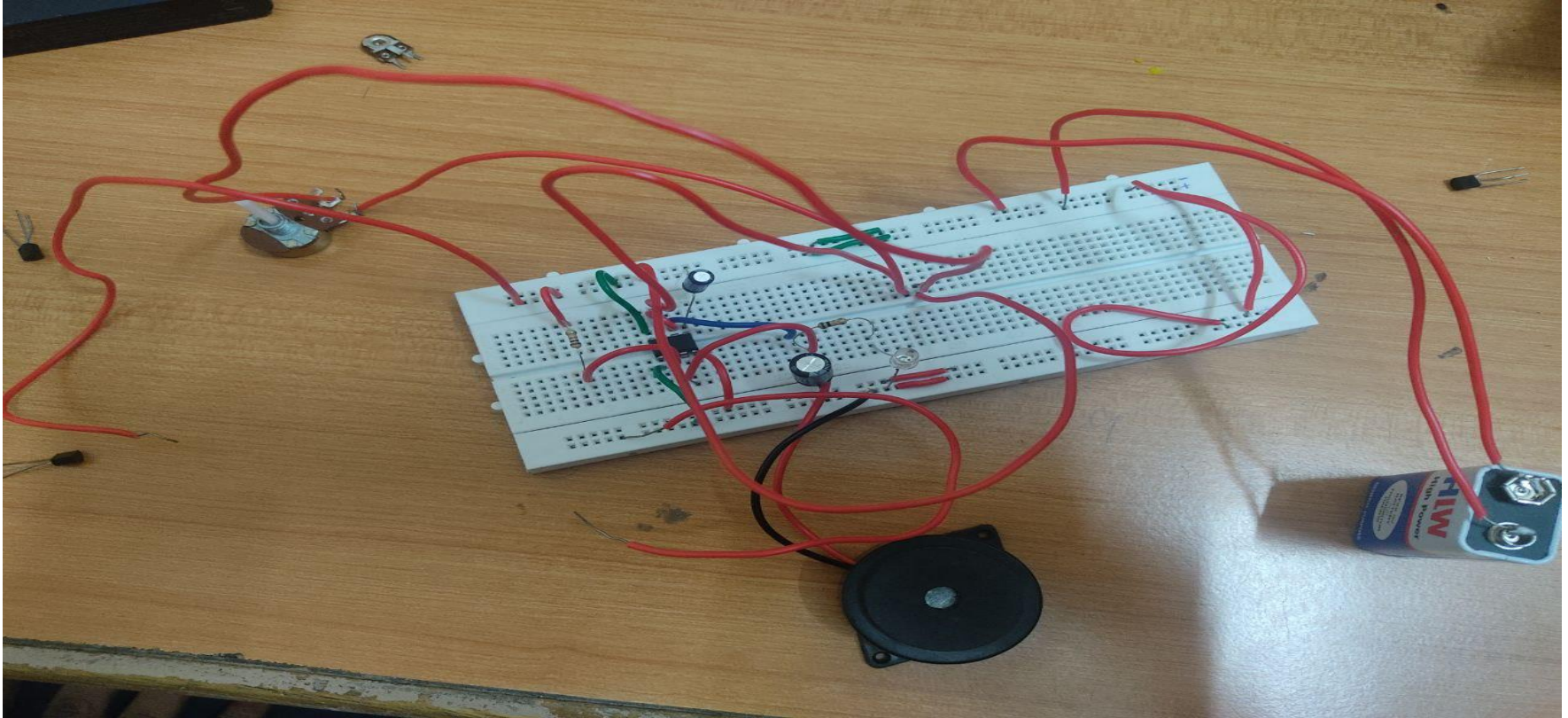
Automatic Plant Irrigator Circuit



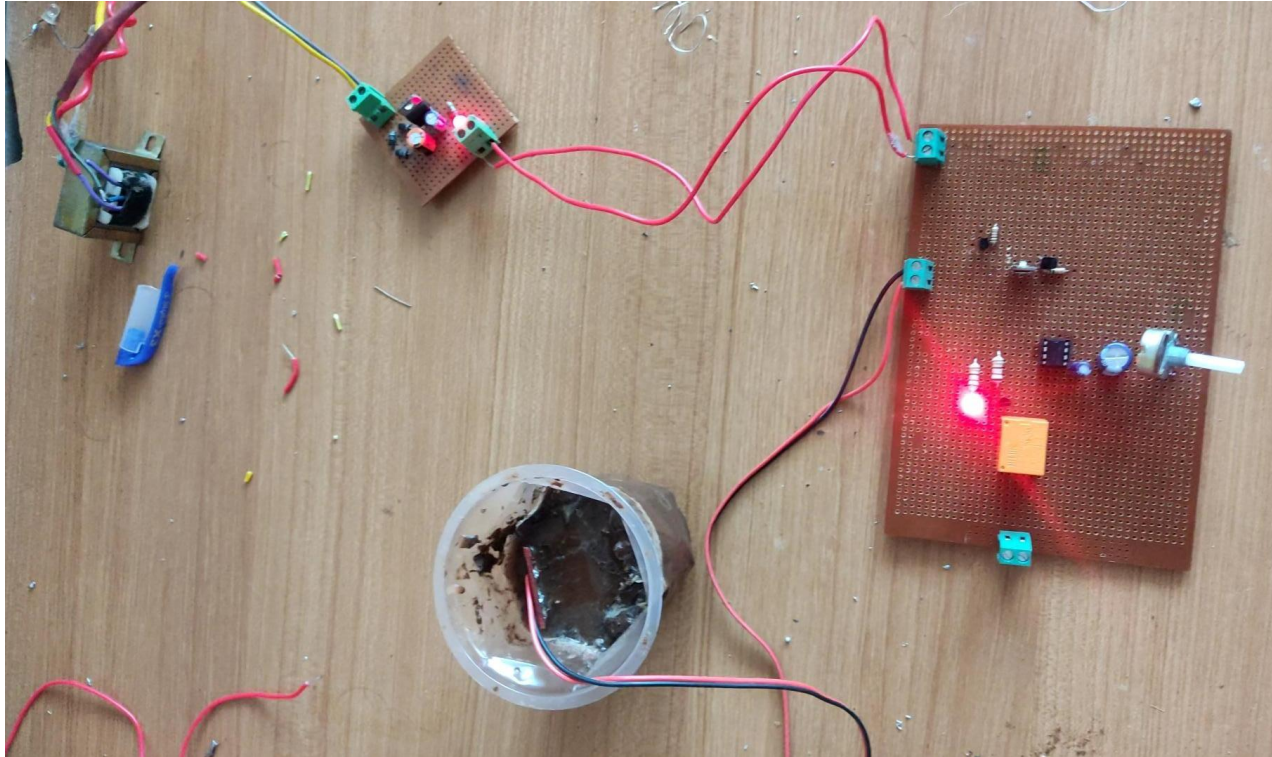
WORKING PRINCIPLE

- In this system the moisture sensor senses the moisture level of the soil and when the sensor senses a low moisture level it automatically switches the water pump with the help of timer IC. The timer IC works based on charging and discharging of a capacitor.

HARWARE KIT PHOTOGRAPH



RESULTS HARWARE



THANK YOU