

**CANARA ENGINEERING COLLEGE**  
(AFFILIATED TO VTU, BELGAUM)  
**BENJANAPADAVU, BANTWAL – 574219, D. K. KARNATAKA**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS  
ENGINEERING**



**CERTIFICATE**

*This is to certify that the project entitled "AUTO CONTROLLED IRRIGATION UNIT IN GREENHOUSE" has been carried out by*

**PRAJWAL M. PAI  
RALSTON C. MIRANDA  
SUDARSHAN NATEKAR S.  
VIVEK GANAPATHI HEGDE**

**4CB06EE028  
4CB06EE020  
4CB06EE024  
4CB06EE027**

*Students of final year B.E., (Electrical & Electronics Engineering) under the my guidance and submitted in partial fulfillment of the requirements for the award of the degree of "BACHELOR OF ENGINEERING" in ELECTRICAL AND ELECTRONICS ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY during the academic year 2009 - 2010.*

*Further it is certified that, to the best of my knowledge that the matter embodied in this work has not been submitted for the award of any other degree.*



*Mohan Rao*

**Mr. MOHAN RAO K B.E., M.Tech**  
(Senior lecturer, Dept. of E&E Engg.)

**(PROJECT GUIDE)**

## **ABSTRACT**

Our aim is to monitor the parameters like temperature, humidity, light etc and take necessary control actions for the optimal growth of exotic plants.

In this system the sensors senses the variation in the conditions being observed in the form of analog signals, is converted into digital signal using ADC ( Analog to Digital Converter) which is given to microcontroller AT89C51. Based on these information the microcontroller sends signal to operate the relay so that required parameters can be controlled.

The design is quite flexible as the software can be changed any time. It can thus be tailor-made to the specific requirements of the user.