

VIVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM –590010



PROJECT REPORT

ON

“SOIL TESTING ROBOT”

(Sponsored by KSCST Bangalore)

Submitted in partial fulfillment of the requirements for the award of

**BACHELOR OF ENGINEERING
IN
ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted By

- | | |
|-----------------------|-------------------|
| 1. RAMESHA.T | 4SM05EC055 |
| 2. RAMPRASAD.N | 4SM05EC056 |
| 3. RAVIKUMAR.A | 4SM05EC057 |
| 4. SUPRITH.P.G | 4SM05EC102 |

Under the Guidance of
Mr. K.B Siddesh M.Tech
Asst. Prof, Dept of E & C
S.J.M.I.T, Chitradurga



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING.
S.J.M.INSTITUTE OF TECHNOLOGY CHITRADURGA- 577 502.**

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ABSTRACT

In the present world of electronics, most of the research work is going on the field on embedded system programming and security related applications and robots. Keeping this both basic concept we are designing a project called, "SOIL TESTING ROBOT".

The prototype is built as a Robot by using the geared DC motors; the wireless camera mounted on top of the robot gives the direct visual on the computer screen of the suspected area. The detector harm detects the presence of acid or base in the suspected area and the colour variation in PH paper can be observe in monitor screen , robot movement indicates with the glow of LED to the respective direction. This prototype can also used in the chemical industries to save the life of Human beings who are unaware of the suspected area.

Robots provided a better interaction to the user at the base station and the suspected area where the soil is present. Robots can be used when human beings fail to survey the soil manually at any place we can use this robot. It is also used in chemical industries for safer side where the place spreaded with acid content.