Health Monitoring In Agriculture Land

C.Naveen[1], M.Karthikraja[2] , S.Arokia Magdaline[3]

[1, 2] Dept of ECE

[3]Assistant professor, Dept of ECE

[1, 2, 3]Parisutham institute of technology and science, Thanjavur, Tamil nadu.

Abstract- *This paper proposes a farming environment observing framework for checking data concerning a outside by using GSM. The proposed framework gathers natural and solid data through several sensors .In this paper we are using moisture sensors and PH sensors. This sensor help the field to control the water level and also temperature. Here we are using GSM. Agriculture is facing a big challenge nowadays. Many new concepts are being developed in few recent years.In some respects how we done these tasks in the past to how we could do them using GSM.That is we are interested to make the GSM based system to reduce the important factor to the farmer is wastage of time ,money, the errors which had done by the humans. . In our system we get the information about percentage of wetness of paddy field.In some respects how we done these tasks in the past to how we could do them using GSM. To dothis a large amount of information is captured by using the sensors and transmitted to the controller for the further processing*

I. INTRODUCTION

Agriculture is the backbone of Indian economy, and not only for Indian economy ,without agriculture each and every country cannot be rich. So we implement this project that must be helpful for the farmers to reduce the difficulties in cultivation.

II. AIM

Through automation ,we are going to reduce the man power by manual checking , reduce the wastage .To improve the quantity and quality of a product.

III. OBJECTIVES

The main the objective of the project will be concentrated towards the development of the system that works on SMS feature of the mobile phone Generalobjectives
1. To develop effective and convenient automatic irrigation system to increase the productivity of crops

Specific objectives

The secondary objectives of this study are as follows:

1. To develop system that automatically regulate the moisture of the soil.
2. To minimize human labor used in irrigation.

IV. EXISTING SYSTEM

By manual and hard wire control, the existing system had been done. More wire connections and difficult to change the logic and unreliable.

V. PROPOSED SYSTEM

We are going to implement this with the help of PIC controllers with MP LAB IDE. Harvard architecture is used in PIC controllers because this improves the bandwidth(throughput) more traditional. Furthermore allows instructions to be sized differently than 8 bit wide data word. They are inexpensive, simple to use ,majority contains flash memory. They can be used in circuits as multifaceted as drive systems for motors and AND gates in simple circuits. Microchip has a large suite of development tools integrated within one software package.PIC 16F73 and PIC 16F74 microcontrollers offer 4K words of Flash program memory,192 bytes of data RAM and PIC 16F76 and PIC 16F77 microcontrollers offer 8K words of Flash program memory,368 bytes of data RAM. The devices consume low power and draw 20microamps from a 3V supply while operating at 32 KHz. The microcontroller executes the program loaded in its flash memory .The executable code comprises of zeroes and ones. It is organized in 12- ,14-,or 16-bitwide words ,depending on the microcontroller's architecture. As for PIC microcontrollers the programming words comprised of 14 bits the instruction set has 35 different instructions in total. As the process of writing executable code was endlessly tiring, the first higher programming called assembly language was created. Programmers have always needed a programming language close to the language being used in everyday life.Figure1.1 shows the Block diagram of proposed system.
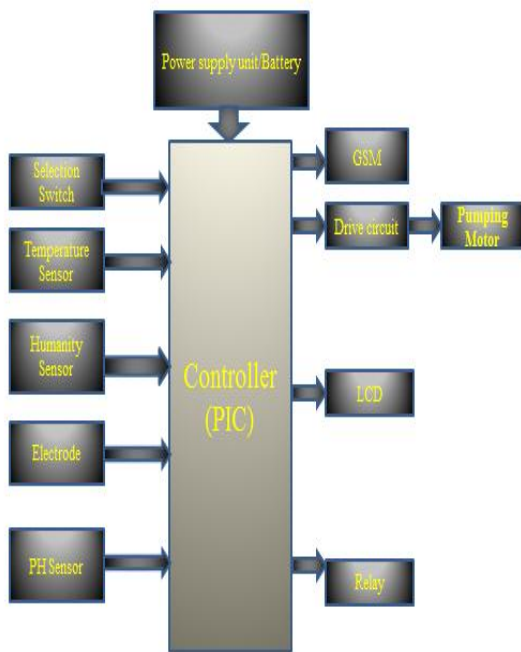
Figure1.1 Block diagram of proposed system.

VI. APPLICATIONS

Automation in agricultural fields.PH level detection, Climatic sensing, Moisture sensing.

VII. CONCLUSION

From this device ,we are going to monitor the motor on/off condition, pH level detection, climate sensing.

VIII. RESULT

ELECTRODE	MOTOR
DRY	ON
WET	OFF

REFERENCES

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