Abstract

Modern agriculture needs tools and technologies that can improve production efficiency, product quality, postharvest operations, and reduce their environmental impact. Automation in agriculture brings about a fundamental contribution to what is now known as precision agriculture (or precision farming). The real-time environmental parameter which makes a continuous impact on the crop from cultivating till cutting it. Such as soil moisture, temperature, water level of the tank and ph of soil. The proposed system has several types of sensors deployed in the crop field area. It captures the physical phenomnons as mentioned above. The sensed data from various sensors goes to the central Global System for Mobile communication (GSM) node. From that the sensed data is given to the personal computer, which is used by a farmer.

References

- Purnima, S. R. N. Reddy, Department of Electronics & Communication & Computer Science IGIT, GGSIP University, Delhi, India. &quot;Design of Remote Monitoring and Control System with Automatic Irrigation System using GSM-Bluetooth&quot; International Journal of
Real-Time Implementation and Analysis of Crop-Field for Agriculture Management System based on Microcontroller with GPRS (M-GPRS) and SMS

**Computer Applications** (0975 – 888) Volume 47– No. 12, June 2012.  

**Index Terms**

Computer Science  
Circuits And Systems

**Keywords**

GSM Modem with GPRS  
Sensors  
PIC Microcontroller  
LCD Display and Relay