Abstract

Sensors are the hopeful device for precision agriculture. By forming Wireless sensor network we can make good monitoring system in the paddy crop field area. This paper proposed idea about monitoring the crop field area without man power. The fundamental concept of this paper is to provide a highly enabled monitoring of paddy crop field. In this paper we have detailed about how to utilize the sensors in paddy crop field area and explained about Wireless Sensor
Network (WSN), Zigbee technology, Protocol stack of zigbee. We checked out the zigbee technology with two different commercial modules (Xbow and Xbee). We did the analysis of battery life under sensor deployed in the water conditions and the evaluation of the reliability of communications and measurements.

**Reference**

- Role of Zigbee Technology in Agriculture Sector, Alka Kalra, Rajiv Chechi, Dr. Rajesh Khanna.
- shahin Farahani, Zigbee Wireless Networks and Transceivers, newnes publications.

**Index Terms**

Computer Science

Wireless

**Key words**

Wireless Sensor Network

Zigbee

Crop Field Monitoring