Abstract

The project is designed to develop a Low Cost SMART Intelligent Plant Monitoring System which has the main properties of , Ideal operating conditions for a specific plant based on Soil Moisture, Humidity in Air,Temperature,Rain Droplets, Light Intensity ,Spraying Compost can be identified by the monitoring system, Switching a pump motor ON/OFF on Sensing the Moisture Content of the Soil for a Specific plant, Detects Soil Moisture, Humidity in Air, Temperature, Rain, Light Intensity as a Percentage, Condition, etc and Displays on a 20×4 LCD Panel, Real Time Monitoring of the plant with Date and Time Displaying on the LCD,Collecting Data per second of Moisture Level,SunLight,Temperature,Humidity using a SD Card Module with respect to Time for future analysis, Sends SMS Alert Before two days when it's time for Liquid compost to fill to the Compost Tank and then Spray it on a given exact date for a specific time period and Finally Sending a Feedback which can Automatically Slide the Roof When Raining and For High Sunlight Conditions. In the field of Home Gardening and Mass Scale Plantations, use of proper method is important. The main advantage of using this method is to reduce human intervention and still ensure proper Gardening and Farming .