

Automatic Polyhouse

Control and monitoring of environmental parameters inside a Polyhouse farm, so as to ensure continuous maintenance of favorable crop atmosphere is the objective of this proposed system. The objective is achieved through the use of internet based technology. Greenhouse is a methodology used to grow plant under controlled environment for increasing yield and quality of the crops. The development and growth of crop depends on internal environment of polyhouse such as temperature, humidity, pH level of soil. The controlling and monitoring of polyhouse parameters play vital role in overall development of plant. In greenhouse, for proper plant growth soil nutrient parameters are equally important. Nutrient related parameters give the ability to correct issue before they become problems like plant losses and poor crop quality. For nutrient testing, pH of growing substrate measures the availability of micronutrient. pH depends on various factors such as fertilizers, growing substrate, irrigation, plant species, water quality and whole data provides valuable clues if problem arises. Irrigation is also one of the most important inputs for increasing yield of crop and quality. In this system irrigation system is controlled and monitored as per soil moisture data. Polyhouse maintain necessary environment through web technologies instead of any kind of human interaction.

