

Protected Cultivation: Advantages, Present Status and Future Prospects

Kumar Sivala*, Rahul Adhikary and S. Devika Rani

Centre for Smart Agriculture, Centurion University of Technology and Management,
Odisha- 761211, India

*Corresponding author: sivalakumar@cutm.ac.in

Abstract

Protected Cultivation practices are cropping technique to maximize the plant yield by controlling the micro environment around the plant either partially or fully during the time period of plant growth. Commonly used protected cultivation practices are greenhouse (forced and naturally ventilated), shade net house, polythene tunnel and mulching, raised beds and drip irrigation. Inside the greenhouses, micro controlled climate is maintained by changing the humidity, temperature and ventilation to facilitate healthy growth of the plant. These innovations needs careful planning, mindfulness and data about course of events of creation and also, gather time to correspond with high market costs, selection of assortments embraced for the slow time of year conditions. Nursery is a counterfeit structure takes a shot at the wonder which is known as nursery impact. Ensured innovation has all in all two essential parts, initial one is framework and second one is creation innovation of harvests. Foundation includes different designing parts of secured structure improvement. The second part creation innovation of harvests includes logical examinations to build up the assortments appropriate for ensured development, picking the kind of yields and normalizing the creation conventions. For Indian farmers, this innovation can help in making worthwhile gets back from different high worth yields and will grant enough gauges to contend at international level.

Keywords: Protected cultivation, greenhouses, advantages, present status, future prospects

1. Introduction

Protected cultivation is a technique of crop cultivation where the micro climate of the plant surrounding is controlled partially or fully as per requirement of plant growth. As the agricultural technologies are improving, the various new protected cultivation