

JOB ROLE – FLORICULTURIST (PROTECTED CULTIVATION)

Sector – Agriculture

(Qualification Pack Code: AGR/Q0702)



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UNIT 1: INTRODUCTION TO PROTECTED CULTIVATION

Session 2: Site Selection and Suitable Crops for Protected Cultivation

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Session Objectives

The student will be able to

- select the site for establishing protected cultivation structures
- cultivate major flowers in protected structures

Introduction

. The criteria for site selection in case of protected cultivation structures like shade net houses and greenhouses are exposure to ample sunlight, appropriate distance from a low-lying area, levelled ground surface, pH and electrical conductivity of soil.

Flower crops suitable under protected cultivation are Rose, Gerbera, Carnation and Chrysanthemum.

Site Selection for Protected Cultivation

- Site should be near to road, water source and electricity
- It should be free from waterlogging conditions
- Soil should be loamy and sandy loam, rich in organic matter content

Site Selection for Protected Cultivation

- pH range of soil and water from 6.5 – 7.0 and Electrical Conductivity below or up to 1.0 dS/m
- Away from large trees, tall buildings etc.

Orientation of Greenhouse

- In hilly regions North-South orientation is recommended, as hilly areas require more solar light for heating up inside the greenhouses
- In plane areas having more wind velocities East-West is preferred for proper natural ventilation. In other areas, where such problems are not expected there North-South is preferred.

Major Flowers Crops and Their Varieties

Flower crops suitable under protected cultivation are:

Rose: Three types of roses

Standard rose

Sweet heart rose

Spray roses

Varieties: Gold Strike, Grand gala,

Noblesse, Revival, Bordeaux and Avalanche



Major Flowers Crops and Their Varieties

Gerbera: Most commercial flower crop available in different colours (White, red, ink, yellow, orange and twin shades)

Varieties: North Star, Ornella, paradox, Tropic Blend, Topaz and Pink Fantasy.

Propagation: tissue culture



Major Flowers Crops and Their Varieties

Carnation: Two types:

- 1) Standard carnation
- 2) Spray carnation

Varieties: Big red, White liberty, Pink dove, Liberty, Solar Star

Propagation: tissue culture



Major Flowers Crops and Their Varieties

Chrysanthemum:

Suitable for plane areas,
having more shelf life

Varieties:

Otome, Taiwan Yellow,
Bowl of gold, Golden
Princess Anne etc

Propagation: stem
cuttings



Summary

In this session you have learnt about the site selection for protected cultivation, orientation of greenhouse and major flowers crops and their varieties

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