

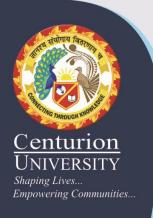
Center for Smart Agriculture

High value Cut flowers



Module 3: Dendrobium Orchid Cultivation

Session 3: Media Preparation



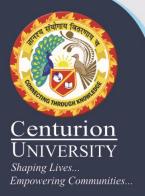
Selection of Soil

- Should provide good drainage and aeration
- Rich in organic matter
- Reasonably stable
- Top soil with at least 30% OM is preferred

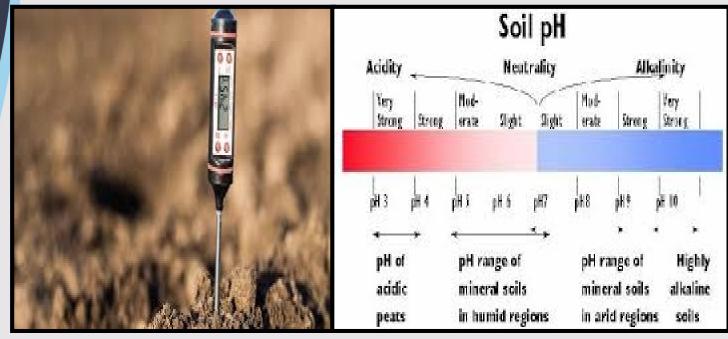


Media

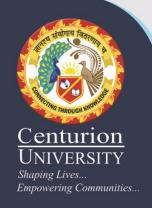
- Dendrobium is an epiphyte
- Requires porous media
- Should contain low salt



Optimum pH



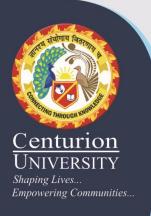
Optimum pH of 5 is preferred



Electrical Conductivity



Optimum EC for dendrobium is 0.6mS/cm



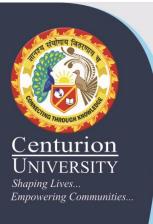
Soil preparation

- Dendrobium are sensitive to water logging
- Soil should be tilled for 2-3 times
- Land should be dug upto depth of 30 cm
- This facilitates removal of all unwanted materials



Media Sterilization

- Media sterilization prevent diseases
- Popular disinfectants
 - H₂O₂ (Hydrogen Peroxide)
 - Formalin



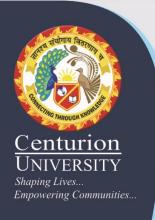
Steps in soil sterilization

Land should be irrigated

Hydrogen Peroxide @ 35ml/L

Allow to settle for 4-6 hrs

Recommended rate 1L per sq m



THANK YOU