

Center for Smart Agriculture

High value Cut flowers



Module 3: Dendrobium Orchid Cultivation

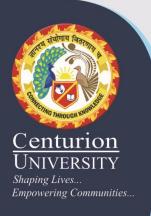
Session 2: Pre-requisites for Dendrobium

Cultivation



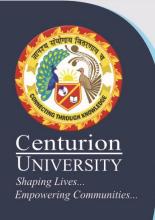
Growing conditions

- Normally grown in shade houses
- Polyhouse (In high rainfall areas)
- Side walls: Shade cloth
- This provides protective environment



Site selection for Poly house

- Level topography with good drainage
- Presence of natural wind breaks.
- Bright sunlight
- Good air movement without regular strong winds
- A reliable source of good quality water
- Proximity to utilities and roads



Polyhouse Dimensions

• In general, polyhouse of 800 to 1000 m² are recommended

Orientation: North- South

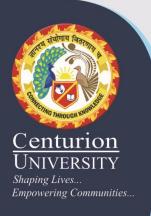
Roof Material: 200 micron white diffused

Side wall material: 40 mesh

Height:

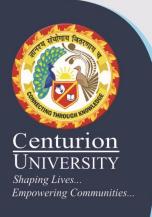
- Recommended Height: 6m
- Recommended Gutter height: 4.5 m
- Recommended Bay size: 8×4 m





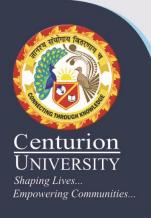
Climatic Requirement

- Optimum temperature: 20 to 27°C
- Day temperature: 23 to 29°C
- Night temperature: 15 to 18 °C
- The sunlight intensity 25,000 to 30,000 lux
- Base temperature: 10 °C



Bench

- •Dendrobium pots can be kept in the benches for proper aeration
- •It prevents soil borne diseases and pests
- •Height of the bench: 2feet
- •Breadth of the bench: 3 feet



THANK YOU