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Center for Smart Agriculture

High value Cut flowers



Module 3: Dendrobium Orchid Cultivation

Session 2: Pre-requisites for Dendrobium Cultivation



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Growing conditions

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



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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



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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





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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



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Bench

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



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THANK YOU