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Center for Smart Agriculture

High value Cut flowers



Module 3: Dendrobium Orchid Cultivation **Session 5: Intercultural Operations**



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Irrigation

- Dendrobium are grown in porous media that hold little water
- Irrigation is scheduled whenever the media and root mass become dry



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Quality of Irrigation Water

- The water should be at room temperature
- Fresh water with neutral pH
- De-ionized water should be used
- Liquid fertilizer should be applied



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Frequency of Irrigation

Depends on

- Season
- Weather
- Plant Growth



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Nutrient Management

Growth phase: First year (for growth of young plant)

- 20:10: 10 NPK @ 0.1% (1g/litre of water) - Foliar application at 15 days interval.
- Calcium nitrate @ 0.05%
- Magnesium sulphate @ 0.1 %
- Micronutrient [Ferrous sulphate-50 ppm Fe, Boric acid-50 ppm B, Zinc sulphate-50 ppm Zn] foliar application at bimonthly interval.



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Nutrient Management

Flowering phase: 2nd year onwards

- February to May (for flowering)
- 10:20:20 NPK (@ 2g/litre of water) foliar application at monthly interval.
- Calcium nitrate @ 0.05% (0.5g/litre of water) - foliar application at monthly interval.



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THANK YOU