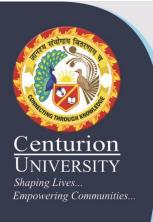


Center for Smart Agriculture

High value Cut flowers



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



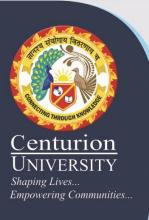
Irrigation

•Dendrobium are grown in porous media that

hold little water

•Irrigation is scheduled whenever the media

and root mass become dry



Quality of Irrigation Water

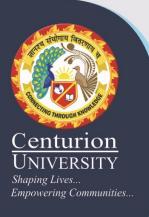
- The water should be at room temperature
- Fresh water with neutral pH
- De-ionized water should be used
- Liquid fertilizer should be applied



Frequency of Irrigation

Depends on

- Season
- Weather
- Plant Growth



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.



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.



THANK YOU