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Center for Smart Agriculture

High value Cut flowers



Module 2: Dutch Rose Cultivation
Session 3: Soil Preparation



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Selection of Soil

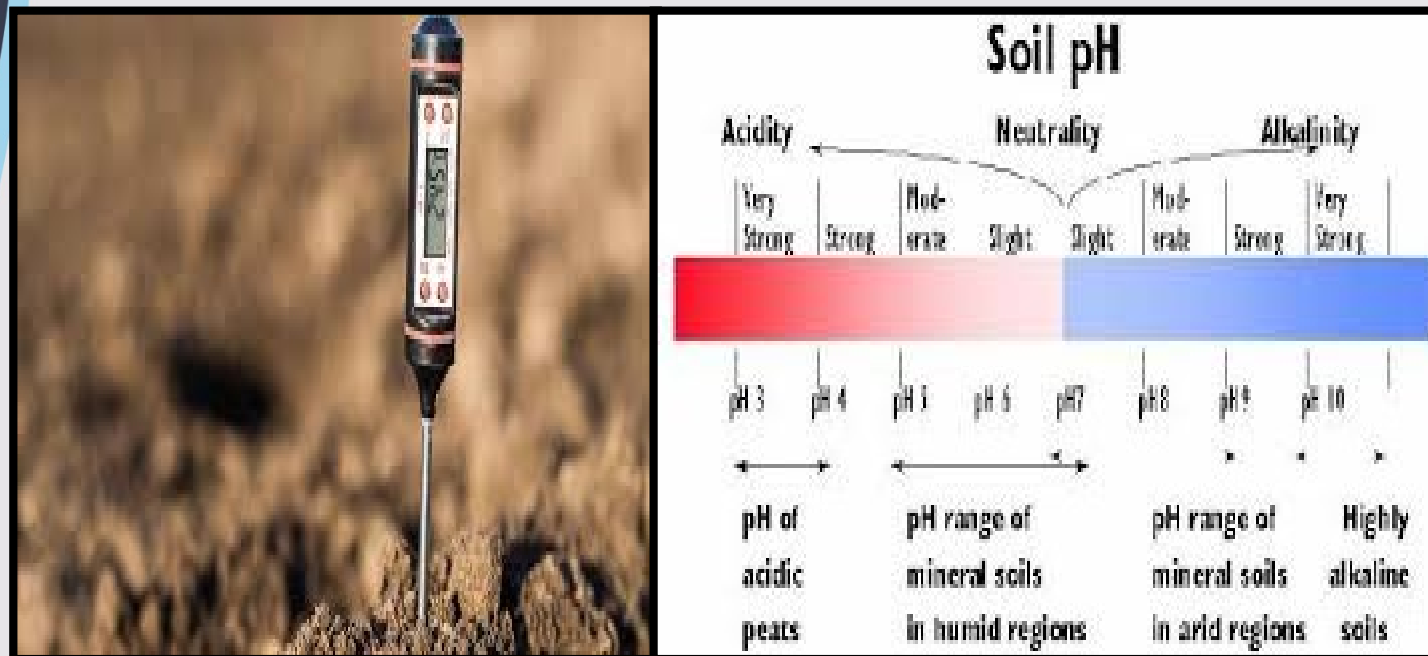
- Well drained
- Rich in organic matter
- Top soil with at least 30% OM is preferred



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Optimum pH



Optimum pH for Dutch rose should be 5 to 6.5



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Electrical Conductivity



Optimum EC for Dutch rose should be less than 1



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Soil preparation

- Dutch roses 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



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Ideal Soil Composition

| Materials | Composition |
|------------------|--------------------|
| Decomposed FYM | 2 parts |
| Sand | 1 part |
| Coir Pith | 1 part |



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Soil Sterilization

- Disinfecting the soil before planting the new plants is essential
- Popular disinfectants
 - H_2O_2 (Hydrogen Peroxide)
 - Formalin
 - Dazomet
 - Methyl Bromide
- This should be applied uniformly on the moist beds @10 L/ m²



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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



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THANK YOU