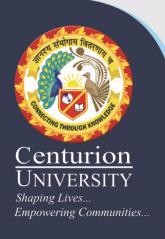


Center for Smart Agriculture

Applied Hi-Tech Horticulture



Module 2: Hi-Tech Nursery Management Session 10: Media and Soilless media used for raising seedlings



Types of media:

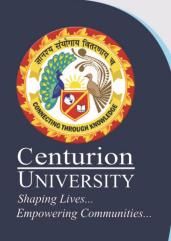
❖Soil: This is the most commonly employed medium for pot plant.

Sand: Used for rooting of cutting.

❖Peat: It consists of the remains of aquatic marsh, bog preserved in under water.

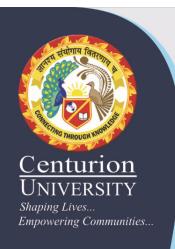
Sphagnum moss: Used for air layering.

❖Leaf mold: Used for potting mixture.



Continues....

- **♦ Saw dust:** Used in nursery as soilless substrates
- ❖ Grain husk: Byproduct of the rice milling industry, It is extremely light in weight and good drainage facility.
- **❖**Cocopeat: Byproduct of the coconut industry and commercial used in vegetable grafting and plug tray.
- ❖ Vermiculite: Used as soilless root substrate with high nutrient and water holding capacity.
- ❖ Perlite: It 3-4% water holding capacity.



Cocopeat



Soil



Peat Soil



Spagnum moss



Vermiculite



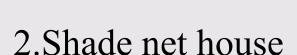
Perlite

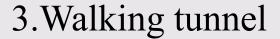




Structure of nursery

1.Green house





4.Low tunnels

5.Mist Chamber



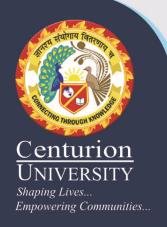
Green house



Shade net house



Swastik Agri Solution Co Walking tunnel





Low Tunnel

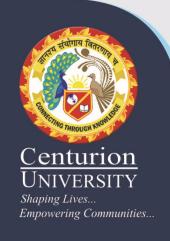


Mist chamber



Advantages of nursery management for greenhouse cultivation

- ❖Plants are protected from biotic stress and abiotic stress
- ❖Due to use of artificial soil-less media is commonly free from soil borne disease and nematode as compare
- Minimum weed infestance.
- **❖**Low cost labour.
- Germination per cent is high.
- ❖ Year round production of seedling and not severe problem in rainy season.
- ❖ Minimize the infestation of pest as well as cost of pesticides used.
- Early seedling production gives higher price in the market and economically more profit.



THANK YOU