

- ❖ Popular vegetable with year round demand
- ❖ Various constraints in open fields that limit its production
- ❖ Average yield of tomato in Rajasthan  $4.1 \text{ t ha}^{-1}$  (India  $24 \text{ t ha}^{-1}$ )
- ❖ To produce 1 kg tomato in open field 300 litres of water is required



## Benefits of protected cultivation

- ❖ Protected structures provide favourable conditions thus enables year-round cultivation
- ❖ Increase profitability due to off season production; higher yield and better quality fruits
- ❖ Best utilization efficiency of land, water and nutrients
- ❖ Fruit yield in order of fan-pad polyhouse> naturally ventilated polyhouse> insect net house> shade net house
- ❖ Yield varies from 10 to 18 kg  $\text{m}^{-2}$  in 5-6 month cropping period (September to March or January to May)
- ❖ One kg tomato is produced from 45-50 litres of water in polyhouse
- ❖ Plant lowering, double stem training and grafting on vigorous root stocks can further enhance tomato yield
- ❖ Popular hybrids (greenhouse tomato): NS-4266, Abhirang, BS-600



Cherry tomato