

## **2. Radish Cultivation**

### **1.Introduction**

Radishes (*Raphanus sativus*) are fast-growing root vegetables that thrive during the Zaid season.

### **2.Climate and Soil Requirements**

- Temperature: Grows well between 10–25°C.
- Rainfall: Requires 20–30 cm during growth.
- Soil:
  - Light loamy or sandy soils.
  - Soil pH: 6.5–7.5.

### **3.Seed Selection and Preparation**

- Varieties:
  - Pusa Chetki: Suitable for summer sowing.
  - Japani White: High-yielding.
- Seed Rate: 8–10 kg per hectare.
- Seed Treatment: Treat with Bavistin (2 g/kg seeds).

### **4.Sowing Techniques**

- Time of Sowing:
  - October to February for winter varieties.
  - to August for summer varieties.
- Method: Line sowing.
- Depth and Spacing:
  - Sow seeds 1–2 cm deep.
  - Maintain 30 cm row spacing and 5–8 cm plant spacing.

### **5. Fertilizer Management**

- Base Fertilizers:
  - Nitrogen (N): 50 kg/ha.
  - Phosphorus (P): 30 kg/ha.
  - Potassium (K): 30 kg/ha.
- Application: Apply full P and K and half N at sowing; remaining N after 25 days.

### **6.Irrigation**

- Light irrigation at intervals of 5–7 days.
- Ensure no waterlogging.

## **7. Pest and Disease Management**

- Pests:
  - Leaf Miner: Spray Neem oil or Dimethoate (0.03%).
- Diseases:
  - Black Rot: Use Copper Oxychloride (0.3%).

## **8. Weed Control**

Perform hand weeding 20–25 days after sowing

- Harvest 40–50 days after sowing when roots are tender and fully developed.

## **9. Harvesting and Post-Harvest Management**

- Harvesting:
  - Harvest when roots are tender (30–50 days after sowing).Post-Harvest: Clean roots and bundle for the market.

## **10. Yield and Economics**

- Yield: 15–20 tons per hectare.
- Cost of Cultivation: ₹30,000–₹50,000 per hectare.
- Market Price: ₹10–₹15 per kg.