Tomato

Tomato
Buy Products for your crop
Crop Protection
Package of Practices
Expectation
BharatAgri Smart Farming
Standard Farming
Expected Fertilizer and
Agrochemical Expenditure
¥41,000
Expected Harvest
18 Tons/acre
900 crates/acre
Expected Income (Rs)
¥1,80,000
Expected Fertilizer and
Agrochemical Expenditure
¥48,000
Expected Harvest
14 Tons/acre
700 crates/acre
Expected Income (Rs)
¥1,40,000

Favourable climate

Climate
• Heavy rains, cloudy weather at the time of flowering and fruiting is harmful as it favours dropping of flowers and fruits.
• The plants cannot withstand frost and high humidity.
• High humidity leads to rotting of fruits.
• Bright sunshine at the time of fruit set helps to develop dark red coloured fruits.
Temperature
• Temperature below 10°C retards plant development.
• If temperature goes beyond 33°C, fruit development will be adversely affected.
• Temperature above 38°C at initial growth stage retard the growth.
• A temperature ranging from 21-24°C is ideal for tomato.
Crop Water Requirement
• Generally Grown in irrigated areas.
• To grow high quality tomato, drip with plastic mulching is recommended.
• Crop requires large amount of water at vegetative stage (upto 30 days).
• Crop water requirement- equivalent to 600-900 mm rainfall

Favourable soil

Favourable Soil
Type
• Loamy soil with good water holding capacity pH
• Required range- 6.0-7.5

- If pH is <6.0 add Lime.
- If pH is >7.5 add Gypsum.

Planting material

Abhilash F1
Duration
Special Characteristic
⑥ ②器.3%国

Package of Practices
Yield
150.0 Days
Recommended for Kharif season
Plant Type: Strong
Fruit Colour: Attractive Red
Average Fruit Weight: 80 - 100 gm
Fruit Shape: Flat Round Firmness & Shelf life:
Good
Days to First Harvest:65 - 70 days
180.0 Quintal/Acre
Shine tomato Jumbo F1 hybrid
Duration
150.0 Days
Special Characteristic
Yield
Recommended for all season
Variety type :
Determinant
Fruit Colour: Red
Fruit Shape: Flat Round
Days to First Harvest:55-60 days
Tolerant: Virus and diseases
180.0 Quintal/Acre

Nursery preparation

- For transplanting in 1 acre area, 0.08 acre (3 Guntha) nursery is required.
- Prepare six beds of size 3 m length X 1 m width X 15 cm height.
- Sow the seeds 2-3 cm deep in line at 10 cm apart and cover with soil.
- Water the nursery beds daily twice till germination and once after germination.
- 4-5 days before transplanting reduce the quantity of water application to the nursery beds to harden the seedlings and one day before transplanting give light irrigation.

OR

- Fill the protrays with Cocopeat @ 1.2 kg per protray.
- Sow the treated seeds in protrays @ 1 seed per cell.
- Cover the seed with cocopeat and keep the protrays one above the other and cover with a polythene sheet till germination starts (5 Days).
- After 6 days, place the protrays with germinated seeds individually on the raised beds inside a shade net.

Nursery Duration
- Duration- 25-30 days
- Plants are ready for transplanting when leaves become dark green in color and stem become thick.

Seed Rate
Varieties
150.0 - 160.0 gram/acre
Seed Treatment
50.0 - 60.0 gram/acre

Land preparation

Land preparation
• Plough the land 1 or 2 times based on soil type.
• Mix the following in field and keep it in open air for 10 days for proper decomposition -
FYM- 2 tons
Composting Bacteria- 3 kg
• Spread the above mixture over soil and run rotavator to the entire field making the soil as a fine tilth.
Bed preparation
• Bed preparation- Prepare beds of 120 cm width and 90 cm apart with the help of tractor.

Spacing and plant population
Varieties
Row to Row 2.9 ft
Plant to Plant 0.9 ft
Plant Population 16,858
Hybrid
Row to Row 2.4 ft
Plant to Plant 0.9 ft
Plant Population 20,370

Root Dip Treatment
• Take 20 liter water in flat container.
• Mix 40 gram Mancozeb + 40 ml Imidacloprid.
• Dip the roots for 15 mins in solution before transplanting.
• For plants in pro trays- Dip the pro trays in container for 5 min.

Transplanting
• Transplant the seedlings on the beds 30 cm apart.

Nutrient management

For varieties 80:40:40 N:P:K kg/acre.
•At transplanting apply-
Urea- 87 kg
Single Super Phosphate- 246 kg
Muriate of Potash- 67 kg
• 20 Days after transplant-Urea- 28 kg
• 40 Days after transplant-Urea- 28 kg
• 60 Days after transplant-Urea- 28 kg
• For Hybrids 120:60:60 N:P:K kg/acre.
• At transplanting apply-

Urea- 130 kg
Single Super Phosphate- 375 kg
Muriate of Potash- 100 kg

- 20 Days after transplant-Urea- 44 kg
- 40 Days after transplant-Urea- 44 kg
- 60 Days after transplant-Urea- 44 kg

Irrigation

Number of harvests

- 8 to 10

Harvesting duration

- 70 to 110 days after transplanting.

Harvesting interval

- 3 days

Yield
Each harvest quantity

- Varieties- 50 crates/acre
- Hybrid- 90 crates/acre

Total harvest quantity

- Varieties- 500 crates/acre
- Hybrid- 900 crates/acre