

# Lemon

**Plant Name:** Lemon

**Scientific Name:** Citrus Lemon

**Family:** Rutaceae

**Spacing:** 12 x 12, 15 x 15, 18 x 18, 20 x 20 feet (plant to plant and row to row distance)

**Varieties:** Phule Sharbati, Balaji, Kagzi lime, Sai sharbati, Vikram, Pramalini

**Properties of lemon:** India leads in production of lime and lemon globally. Citrus is the third most important fruit in India after mango and banana. Lemon consists of medicinal and nutritional properties. It's a Rich source of vitamin C' (65 ml per 100gm), and it helps to boost the immune system.

**Soil:** Well drained light loam, medium to black soil having pH 6.5 -7.5 suitable for lemon cultivation. Lemon crop is highly sensitive to calcareous soil, if CaCo<sub>3</sub> more than 5-7% and EC more than 0.1%, so avoid this type of soil, because presence of calcium carbonate at feeding zone may adversely affect the growth of plants.

**Climate:** Pomegranate is a sub-tropical fruit required hot and dry climate. It is drought tolerant and stands 38 °C for fruit development, also tolerant of low temperature.

**Production:** Production starts after 4-5 years of plantation i.e 20-25 Kg/plant from two flowering seasons of one year. 45-55 t/ha/year (after 10 years) at 6m x 6m of planting.

**Insect & Pest:** Leaf miner, Spider mite, Stem borer, Citrus psylla

**Disease:** Citrus canker, Citrus tristeza, Gummosis, Citrus decline.



# Lemon

## *Phule Sharbati*

**Variety:** *Phule Sharbati*

**Plantation date:** 14/04/2024

**Spacing:** 10x16 feet (plant to plant and row to row distance)

**Plantation Area:** 7.8 R

**No. of plants:** 42

**Character of variety:** This variety is tolerant to citrus canker and tristeza virus. It's also resistant to some diseases and pests. It has a good shelf life, so ideal for long transport. The fruit shape is round with soft peel (50-55 gm). The yield recorded from Phule Sharbati compared to Sai Sharbati is 11.3% more. Suitable for cultivation in Maharashtra.

**Production:** Production starts after 4-5 years of plantation i.e 20-25 Kg/plant from two flowering seasons of one year. 52-53 t/ha/year (after 10 years) at 6 x 6 m of planting.



# Lemon

## *Balaji*

**Variety:** Balaji

**Plantation date:** 22/11/2023

**Spacing:** 10x16 feet (plant to plant and row to row distance)

**Plantation Area:** 2.6 R

**No. of plants:** 18

**Character of variety:** This Native India variety with large size fruits having nipples on opposite ends of the fruit, yellow and green in colour. The fruit is sweet and juicy. The variety is resistant to citrus canker and is immune to bark eruption and dry rot. Suitable for Andhra Pradesh and Telangana.

**Production:** Production starts after 4–5 years of plantation.

55 t/ha/year (after 10 years) at 6 x 6 m of planting.



# Lemon

## *Kagzi Lime*

**Variety:** *Kagzi Lime*

**Plantation date:** 22/11/2023

**Spacing:** 10x16 feet (plant to plant and row to row distance)

**Plantation Area:** 2.6 R

**No. of plants:** 18

**Character of variety:** Small to medium size fruit with yellowish green skin. Fruits are mainly used for processing purposes. poor shelf life.

**Production:** Production starts after 4–5 years of plantation.  
55 t/ha/year (after 10 years) at 6 x 6 m of planting.



# Lemon

## *Sai Sharbati*

**Variety:** *Sai Sharbati*

**Plantation date:** 28/07/2023

**Spacing:** 10x16 feet (plant to plant and row to row distance)

**Plantation Area:** 7.05 R

**No. of plants:** 48

**Character of variety:** The fruits of this variety are Smooth with thin rind and uniform medium size (50 gm). This variety is tolerant to citrus canker and tristeza disease. It has a good shelf life. It bears fruits in Mrig and Ambiya Bahar, it has high TSS and citric acid percentage. Juice content 54-55%.

**Production:** Production starts after 4-5 years of plantation.  
47 t/ha/year (after 10 years) at 6x6 m of planting.



## **Lemon Crop Economics (Plantation spacing 15 x 15 Feet)**

## **Lemon Sai-sarbat one acre ( 0.40 R) Cost of Cultivation and Production**