



MANGOSTEEN

(*Garcinia mangostana*)

Mangosteen stands a step ahead of other fruits in taste and is called the queen of fruits. Because this tree bears in a rare biological phenomenon called parthenocarpy, in which fruition occurs without the aid of pollination, the fruits of Mangosteen are called virgin fruits.

Origin : Moluccas Island

Distribution : Malaysia, Borneo, Sumatra Mainland Southeast Asia, and the Philippines since ancient times.



DESCRIPTION

TREE

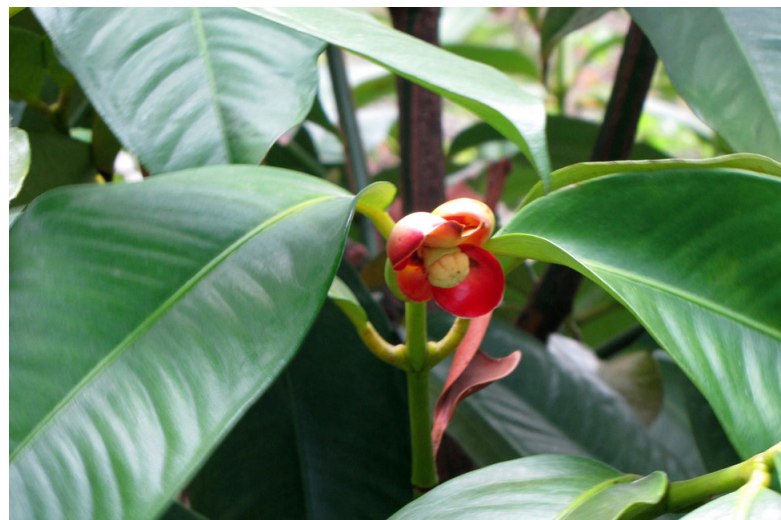
The mangosteen is a small, evergreen tree, very slow-growing, erect with a pyramidal crown; attains 6-20 m in height, has dark-brown or nearly black, flaking bark, the inner bark containing yellow, gummy, bitter latex.

FLOWER

Flowers 4-5 cm wide, fleshy, may be male or hermaphrodite on the same tree. The former are in clusters of 3-9 at the branch tips; there are 4 sepals and 4 ovate, thick, fleshy petals, green with red spots on the outside, yellowish-red inside. Stamens many, fertile and sterile. The hermaphrodite are borne singly or in pairs at the tips of young branchlets; their petals may be yellowish-green edged with red or mostly red, and are quickly shed.

FRUIT

The fruits are the size of a small orange, round or flattened on the ends. Mangosteens have a thick, hard, deep red rind surrounding snow-white flesh, which is in segments resembling those of a mandarin orange.





PLANTING CARE

Planting method : Raised bed/ Trench farming or terrace farming (Slopes)

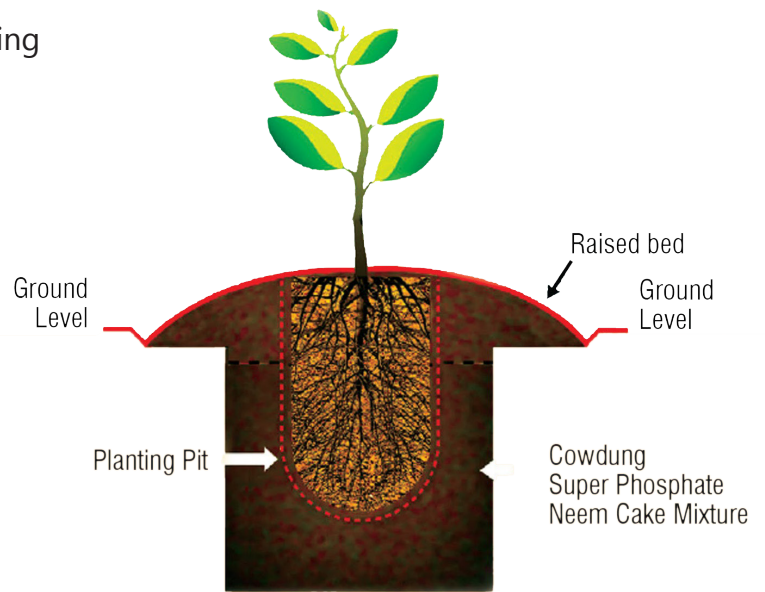
Pit size : 3x3x3 ft

Canopy width : 25 ft

Canopy height : 35 ft

Season : May - June

Ideal location : Plains and highlands



1x1 Meter Square pit for Planting

IDEAL GROWING CONDITIONS

- ❖ Temperature : 22 to 35°C
- ❖ Rainfall : 2000mm
- ❖ Relative humidity : 70% RH
- ❖ Soil pH : 5.5 to 6.5
- ❖ plant spacing : 20 x 20 ft
- ❖ Soil type : well drained sandy loam and laterite soil
- ❖ Elevation : 0-2500 ftMSL
- ❖ Sunlight requirement : Requires semi shade initially, partial sunlight to full sunlight.
- ❖ pH : 5.5 to 6.5
- ❖ Pruning : yes
- ❖ Training : yes
- ❖ Pollination : self pollinated





NUTRITION MANAGEMENT

Inputs	1st year	2nd year	3rd year	Frequency/stage
NPK	100g	200g	300g	2 split doses
Composted cattle manure	5 kg	8 kg	10 kg	2 split doses
Micronutrients	10g	15g	20g	twice a year
Dolomite	150g	200g	300g	before monsoon

WATER REQUIREMENT

Age of the tree	Quantity of water/Tree/Day
1 Years	10 Liters
2 Years	15 Liters
3 Years	20 Liters



PEST AND DISEASES

Trunk Canker : Apply Bordeaux paste on the affected area of the stem.

Twig blight : Spray saaf @ 2g/l



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