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Dragon Fruit Plant Cultivation



INTRODUCTION OF DRAGONFRUIT

Pitaya also known as Dragon Fruit is a superfruit indigenous to central and South America that is grown all over the world. It has a faint, sweet taste much like an earthy watermelon. It's a fast growing crop and the plant as can produced for more than seven to eight years. The fruit of this plant having red skin covered with large scale and white or pinkflesh contains some black seeds. It can be used in jams, ice creams, jelly production, fruit juice, and wine.

Types of Dragon fruit:

- *Hylocereus megalanthus*: yellow colour fruit with colour flesh and it is also known as *Pitaya amarilla* or yellow pithaya.
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- *Hylocereus costaricensis*: Red colour fruit with red colour flesh and it is also known as a *Pitaya roja* or red-fleshed pithaya.
- *Hylocereus undatus*: Pink colour fruit with white colour flesh and also known as *Pitaya blanca* or white fleshed pithaya.



- **Chemical Composition and its uses:**

Compositions	Uses
Vitamin B2	Adds an essential nutrient in the diet and gives an energy production.
Vitamin C	Protection against immune system deficiencies, cardiovascular disease, health problems, eye disease, and even skin wrinkling.
Iron	Vital for brain and muscle functionality
Antioxidants	Protect cells against the effects of free radicals that can cause heart disease, cancer and other diseases
Magnesium	Increase energy, important for regulating Sodium, Potassium and Calcium levels,

	relax muscles, nerves and anxiety, muscle recovery.
High in Fibre	Fibre reduces the risks of heart disease, control blood sugar level; maintain bowel health, lower cholesterol levels.

Cultivation

Soil and climate:

This fruit can be grown on wide range of soils from sandy loam to clay loam. However, sandy soils with good organic matter and internal drainage are best for its cultivation. Soil pH of 5.52 to 7 is best for dragon fruit cultivation. They prefer temperatures between 65 and 80 ° F. Dragon fruit is a cactus and temperatures under 32 F will injure it over time.

Land preparation:

Land should be ploughed till soil achieves the fine tilth and weed free. As part of land/field preparation apply any organic compost in proportionate ratio.

Propagation:

The most common propagation method in dragon fruit is by cuttings. An about 20 cm length cuttings should be used for planting in the field. Pile up these cutting two days before the potting. However, it can also be propagated by seeds but it is not suitable for commercial cultivation.

Planting:

To get the proper up right growth and development of the plant, these should be supported by concrete or wooden columns as the plant becomes mature it forms aerial roots from the branches hence it is recommended to have round/circular metal frame to maintain the balanced dragon shrub with a spacing of 8x8 ft.

Irrigation:

These plants require less water compared to other plants. However, at the time of planting, flowering, fruit, development stage and hot dry climate conditions, frequent irrigation are required.

Pest:

There are no pests and diseases found or reported in dragon fruit cultivation.

Marketing:

Dragon fruit is having a huge demand in India as well and one can earn a good profit through dragon fruit as the benefit of this fruit is also very good for healthy living.

Caution:

The land should be free from weed. Proper drainage system.

Harvesting and Yield:

It is harvested when its skin color changes from bright green to red or pink. The better harvesting time for dragon fruit is 3-4 days after fruit change its skin color. An approximate yield of 20kg is obtained.

Economic of One Acre Dragon Fruit Cultivation:

Expenditure:

Sl	Cost Head Details	Distance	Qty	Unit	Rate/Unit	Time/Days	Total amount (INR)
1	Seed	8*8 1Pole=4plant	2748	Plant	25/-	-	68,700/-
	Pole	1Acer	687	pole	150/-	-	1,03,050/-
	Labor	As per Labor	-	-	-	-	-
	Manure & Bio Organic Khad	As per Requirement	-	-	-	-	-
Total cost in 1 Acre							1,71,750/-

Income:

INCOME FOR FARMING OF SAFED MUSLI ROUTS 1ACRE					
Month	Production	Production/kg (Approximated)	Rate	Revenue	Remarks
2 nd	Fruit	20kg*687=13740 kg	80/-	10,99,200/-	Production start in 2 nd year
3 rd	Fruit	20kg*687=13740 kg	80/-	10,99,200/-	
4 th	Fruit	20kg*687=13740 kg	80/-	10,99,200/-	
Total				32,92,600/-	

➤ **Technical Support & Services:**

We also provide technical support for farming. Our Service Department with technically qualified staff provide after sales service and farmers advisory services to our customers to get better plant establishment and faster growth of Herbal and Horticultural plantations.

We have largest network of employees who deliver Plants to customers at their door steps. Free technical services to customers on planting method, management practices and plant protection measures. Our teams of Agricultural Experts periodically visit and supervise the plantations and suggest necessary guidelines to get better growth and higher returns. Services:

Terms & Condition

- Dragon fruit growing first harvesting practical training.
- First production starts in 2nd year.
- Plantation cost is to be borne only once.
- This includes supervision, consultancy, guidance, transportation cost first year.
- Buy back Agreement of dragon fruit.
- For 1 Acre plantation the cost of Plants is Rs. **1,71,750/-**, out of which 50% has to be paid before the cultivation and the remaining half after the planting is done.
The Buy Back Agreement Stamp paper of Rs.100/- has to be stamped by District Court of your area.
- For 10 Acre or more yield the buy Back Agreement Stamp Paper will be of Rs.500/-.



***(“Look deep into nature,
and then you will understand everything
better”)***

THANK YOU

For More Information Contact Us

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