



Black Turmeric Cultivation



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काली हल्दी की व्यावसायिक खेती

Introduction:



The rhizome of kali haldi has a bitter, sharp, hot taste, and a pleasant odour. It has anti-bacterial and anti-fungal properties, and is laxative. It is used as a tonic for the brain and the heart. Rhizomes are useful in treating leucoderma, piles, bronchitis, asthma, tumors, and tuberculous glands of the neck, enlargement of the spleen, epileptic seizures, inflammations, and allergic eruptions. Black turmeric is native to Northeastern and Central India where it has been part of cultural ceremonies and medicinal remedies. Black turmeric is used by many tribal communities in the state of Madhya Pradesh, Maharashtra. The herb is sold fresh or dried in markets across India and Southeast Asia. As of 2016, Black turmeric has been listed as an endangered species by the Indian Agricultural Department. Efforts are being made to protect and conserve Black turmeric in Odisha, on the central eastern coast, along the Bay of Bengal.

Dried rhizomes of *Curcuma caesia* are reported to contain 1.6% essential oil containing 76.6% d-camphor; 8.2% camphene and bornylene; and 10.5% sesquiterpenes, curcumine, ionone, and turmerone.

Usage:

Black turmeric contains the highest concentrations of curcumin of any plant species. It is a powerful antioxidant and anti-inflammatory. The root has been used medicinally for centuries to treat arthritis, asthma, and epilepsy. Black turmeric root is crushed and can be applied to bruises and sprains to ease discomfort or applied to the forehead to help relieve symptoms of migraines. The rhizome of the plant is aromatic, contains essential oil and used for a variety of purposes. The characteristic pungent smell of the rhizome is due to the presence of essential oil rich in camphor and starch. The rhizome is traditionally used in the treatment of hemorrhoids, leprosy, asthma, cancer, fever, wounds, vomiting, menstrual disorder, anthelmintic, aphrodisiac, gonorrhoeal discharges and inflammation. Furthermore, the



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smooth muscle relaxant, anti-tumour and anti-oxidant properties of Curcuma Caesia rhizome extract had been reported.

Climate:

Curcuma Caesia usually grows in moist deciduous regions. The best season to plant turmeric is spring or summer. It requires warm and humid climate to grow. Keep the turmeric plant in partial sun in the warmer zones. Turmeric prefers warm direct or indirect sun.

Soil:

Rich organic soil that is moist and well-drained. It is grown on different types of soils from light black, ashy loam and red soils clay loam. However, it grows best in a well-drained sandy or clay loam. Keep the soil moist throughout the growing season from spring to fall and feeding with a liquid fertilizer in growing season is ideal.

Harvesting:



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Crop maturity and harvesting: The crop takes about nine months to mature. Harvesting is done in mid-January. Before digging the rhizomes, soil is moistened through irrigation, so that the rhizomes are not injured. Injury to the rhizomes may cause decay of the harvest.

Post-harvest management: Peeled, half cut or sliced rhizomes should be kept in oven at 55 °C or under well-ventilated shade for drying. These dried rhizomes should be stored in suitable damp-proof containers.

Chemical constituents : Dried rhizomes of Curcuma caesia are reported to contain 1.6% essential oil containing 76.6% d-camphor; 8.2% camphene and bornylene; and 10.5% sesquiterpenes, curcumine, ionone, and turmerone.

Yield: Estimated yield of fresh rhizomes is 19-21 tonnes per acre while dry rhizome yield is about 3.5 to 5 tonnes per acre.

We provide Agro technology and Agribusiness consultancy through better utilization of your resources, value of your money, independent consultancy, cost effective, profitable solutions and complete satisfaction without any deviation.

Caring:

Choose a large pot as this herb can easily exceed the height and spread.

Place it about 2 inches (5 cm) below the soil surface, with the buds facing up.

Water the land thoroughly, avoid overwatering.

The crop is to be mulched immediately after planting with green leaves at the rate of 12-15 tonnes per hectare

It may be repeated for a second time after 50 days with the same quantity of green leaves after weeding and application of fertilizers or plastic mulching sheet could be useful.

Economics Of One Acre Black Turmeric Cultivation:

Expenditure:

Distance (in acre)	Rhizome (in land)	Cost of Rhizomes (per kg)	Total	Other expenses (as per requirement)	Cost of cultivation
6inch X2 FT	300 kg	700 Rs./-	300X700 = 2,10,000 /-	Fertilizers Land preparation Labor expenses etc.	210000/-
Total Expenses Of Plants: 2,10,000/-					

Income:

Income of year	Wet Roots (in 10th month)	Company buy-back (per kg)	Total
10 th month	2500 kg	200 Rs	2500X200= 5,00,000/-
Total 10 month Income: 5,00,000/-			

Technical Support And 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 visits and supervise the plantations and suggest necessary guidelines to get better growth and higher returns. The income & expenditure indicated by the company is an approximate figure, as it also depends on the nature and hard work of the farmer.

Services:

1. This includes Supervision, consultancy, guidance, Transportation cost first year .
2. First production starts after 10th month.
3. Buy back agreement of Black Turmeric.
4. The income expenditure indicated by the company is an approximated figure, asit also depends on the nature and hard work of the farmer.
5. Black turmeric growing first harvesting practical training.
6. Plantation cost is to be borne only once and then for next 6-month yield can beextracted.

For More Information Contact Us:



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