Cultivation of Tropical, Subtropical, Vegetables, Spices, Medicinal and Aromatic Plants

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Plant spices grown in tropical countries on small scale family farms of commercial farms, to provide foods for human or live stock, in dry or humid regions are highly abundant and taxonomically diversified. Vegetables comprise of a large number of plants, mostly annual, of which different parts like leaf, steam, flowers, fruit, root etc. are eaten. They are rich in nutrients and are essential items of a balanced diet. Vegetables are called protective food as their consumption can prevent several diseases. Many vegetables are important items of commerce and thus can play a major role in the economic development. Generally classification of horticulture plants are based on nature of growth climatic requirement continuation of growth types of fruit parts used botanical relationship, salinity tolerance, ripening behaviour, botanical relationship, hardness or temperature tolerance, cool season vegtables, warm season vegetables, parts used as food, methods of raising, etc. Medicinal and aromatic plants are important for human health. These plants have been used from the prehistoric times to present day. These plants based medicines are consumed in all civilizations. It is believed that the herbal medicine can give good effect to body without causing side effects to human life. Besides, the usage of medical plants has been increasing as an important role that can support the economic system. The medical and aromatic plants for health are used as herbal treatments and therapies that can be new habits for culture. Medicinal and aromatic plants constitute a large segment of the flora, which provide raw materials for use by various industries. They have been used in the country for a long time for their medicinal properties. The decision to cultivate medicinal herbs should only be made in response to demand for particular herbs. The market is very competitive and could easily be oversupplied.

This book majorly deals with classification of horticultural plants, classification of flowers, classification of spices, soil and climatic requirements of horticultural plants, beet root, bottle gourd, harvesting and post harvest management, poly house vegetable production in temperate regions, vegetables growing in containers, tea, performance of plants from cutting, vegetative propagation, rubber, biofertilizers in vegetable cultivation, postharvest management of tropical tuber crops, etc.

This is an informative resource of the cultivation, irrigation, manuring, fertilization, harvesting and post harvest management of tropical, subtropical, vegetables, spices, medicinal and aromatic plants. This book is useful for entrepreneurs, ayurvedic institutes, libraries and consultants.

1. CLASSIFICATION OF HORTICULTURAL PLANTS

Plant Kingdom

Classification of Fruits

Based on Nature of Growth

Based on Climatic Requirement

Based on Continuation of Growth

Based on Types of Fruit

Based on Parts Used

Based on Botanical Relationship

Based on Salinity Tolerance

Based on Ripening Behaviour

Based on Ethylene Evolution

Based on Bearing Behaviour

Classification of Vegetables

Based on Botanical Relationship

Based on Hardness or Temperature Tolerance

Cool Season Vegetables

Warm Season Vegetables

Based on Tolerance to Soil Acidity

Based on Tolerance to Salt

Based on Parts Used as Food

Based on Methods of Raising

Based on Forcing

Based on Rate of Respiration

Classification of Flowers

Based on Season of Growing

Based on Colour of Flower

Based on Purpose of Growing

Based on Nature of Growth

Based on Mode of Propagation

Based on Growth Behaviour

Classification of Spices

Based on Completion of Life Cycle

Based on Growth Behaviour

Based on Importance

Based on Part Used

Based on Utility

Based on Cultural Management

Based on Botanical Relationship

Classification of Plantatoin Crops

Based on Botanical Relationship

Based on Growth Behaviour

Based on Utility

Based on Extent of Growing

Based on Intensity of Cultivation

2. SOIL AND CLIMATIC REQUIREMENTS OF

HORTICULTURAL PLANTS

Soil

Alluvial Soils

Tarai Soils

Arid Soils

Black Soils

Red Soils

Laterite Soils

Marshy Soils

Climate

Temperate Climate

Tropical Climate

Sub-Tropical Climate

Different Types of Horticulturally Potential Zones

of the Country

Temperate Zone

North-Western Sub-Tropical Zone

North-Eastern Sub-Tropical Zone

Central Tropical Zone

Southern Tropical Zone

Coastal/Tropical Zone

Influence of Climatic Factors

On the Growth of Plants

Temperature

Humidity

Wind

Rainfall

Solar Radiation

3. VARIETAL WEALTH OF HORTICULTURAL CROPS

Fruits

Vegetables

Flowers

Plantation Crops

Seed Spices

4. AGATHI

Climate and Soil

Varieties

Cultivation

Manuring and Fertilization

Aftercare

Yield

5. AMARANTH

Climte and Soil

Varieties

Badi Chaulai

Chhoti Chaulai

Pusa Kiran

Pusa Lal Chaulai

Pusa Kirti

Cultivation

Sowing

Manuring and Fertilization

Irrigation

Interculture

Seed Production

Harvesting and Postharvest Management

6. ASH GOURD

Climate and Soil

Varieties

Apau Shakthi

Cultivation

Irrigation

Crop Regulation

Manuring and Fertilization

Harvesting and Postharvest Management

7. BEET ROOT

Climate and Soil

Varieties

Detroit Dark Red

Crimson Globe

Propagation and Rootstock

Cultivation

Planting

Training and Pruning

Manuring and Fertilization

Aftercare

Irrigation

Harvesting and Postharvest Management

Physiological Disorders

8. BITTER GOURD

Climate and Soil

Varieties

Cultivation

Sowing

Irrigation

Manuring and Fertilization

Intercultural Operations

Harvesting and Postharvest Management

9. BOTTLE GOURD

Climate and Soil

Varieties

Arka Bahar

Kalyanpur Hari Lambi

Punjab Komal

Punjab Long

Punjab Round

Pusa Manjari

Pusa Meghdut

Pusa Naveen

Pusa Summer Prolific Long

Pusa Summer Prolific Round

Rajendera Chamatkar

Cultivation

Field Preparation

Sowing

Manuring and Fertilization

Training

Interculture

Irrigation

Harvesting and Postharvest Management

10. BRINJAL

Climate and Soil

Varieties

Cultivation Sowing

Manuring and Fertilization

Interculture

Irrigation

Harvesting and Postharvest Management

11. BROCCOLI

Climate and Soil

Varieties

Palam Samridhi

Cultivation

Manuring and Fertilization

Irrigation

Interculture

Harvesting and Postharvest Management

Physiological Disorders

12. BRUSSELS SPROUT

Climate and Soil

Varieties

Jade Cross

Hilds Ideal

Rubine

Cultivation

Manuring and Fertilization

Irrigation

Interculture

Harvesting and Postharvest Management

13. CABBAGE

Climate and Soil

Varieties

Copenhagen Market

Drumhead Savoy

Golden Acre

Pride of India

Pusa Drumhead

Pusa Mukta

Red Cabbage

September

Cultivation

Planting

Manuring and Fertilization

Interculture

Irrigation

Harvesting and Postharvest Management

14. CAPSICUM

Climate and Soil

Varieties

Cultivation

Sowing

Planting

Training and Pruning

Manuring and Fertilization

Aftercare

Irrigation

Harvesting and Postharvest Management

15. CARROT

Climate and Soil

Varieties

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Temperate or European Types

Cultivation

Land Preparation

Sowing

Manuring and Fertilization

Aftercare

Irrigation

Harvesting and Postharvest Management

Physiological Disorders

16. CAULIFLOWER

Climate and Soil

Varieties

Cultivation

Raising of Nursery

Transplanting

Aftercare

Irrigation

Harvesting and Postharvest Management

Physiological Disorders

Riceyness

Fuzziness

Leafy Curds

Blindness

Buttoning

Chlorosis

Hollow Stem

Browning (brown-rot or red-rot)

Whiptail

17. CELERY

Climate and Soil

Varieties

Fork Hook Emperor

Standard Beared

Wright Grove Giant

Cultivation

Manuring and Fertilization

Irrigation

Interculture

Harvesting and Postharvest Management

18. CHILLI

Climate and Soil

Varieties

Cultivation

Raising Seedlings

Manuring and Fertilization

Irrigation and Interculture

Weed Control Harvesting and Postharvest Management 19. COWPEA Climate and Soil **Varieties** Arka Garima Pusa Barsati

Pusa Dofasali

Pusa Komal

Pusa Phalguni

Pusa Rituraj

Philippines Early

Yard Long Bean

Cultivation

Sowing

Manuring and Fertilization

Irrigation

Aftercare

Harvesting and Postharvest Management

20. CUCUMBER

Climate and Soil

Varieties

Himangi

Japanese Long Green

Poinsett

Poona Khira

Pusa Sanyog

Sheetal

Cultivation

Sowing

Manuring and Fertilization

Aftercare

Irrigation

Harvesting and Postharvest Management

21. CURRY LEAF

Climate and Soil

Varieties

Cultivation

Propagation

Planting

Manuring and Fertilization

Aftercare

Harvesting and Postharvest Management

22. DRUMSTICK

Climate and Soil

Varieties

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Chemmurungai

Jaffna Type

Kattumurungai

Kodikalmurungai

Palmurungai

Punamurungai

Yazphanam Muringa Cultivation Sowing **Crop Production** Manuring and Fertilization **Aftercare** Weeding Intercropping Harvesting and Postharvest Management 23. FRENCH BEAN Climate and Soil **Varieties** Arka Komal Bountiful Contender Jampa Kentucky Wonder Lakshmi Pant Anupma Premier Pusa Parvati Cultivation Sowing Aftercare Irrigation

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Climate and Soil

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King of North

Large Green

Purple Vienna

White Vienna

Cultivation

Planting

Manuring and Fertilization

Aftercare

Irrigation

Harvesting and Postharvest Management

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Climate and Soil

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Cultivation

Field Preparation

Aftercare

Harvesting and Postharvest Management

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Climate and Soil

Varieties

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Planting

Manuring

Aftercare

Irrigation

Harvesting and Postharvest Management

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29. MUSKMELON

Climate and Soil

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Arka Rajhans

Durgapura Madhu

Hara Madhu

Hisar Madhur

Hisar Saras

Punjab Hybrid

Pusa Madhuras

Pusa Rasraj

Punjab Rasila

Pusa Sharbati

Punjab Sunehri

Cultivation

Sowing

Land Preparation

Manuring and Fertilization

Hoeing and Weeding

Irrigation

Harvesting and Postharvest Management

30. OKRA

Climate and Soil

Varieties

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Arka Anamika

Azad Kranti

Harbhajan Bhindi Hisar Unnat Parbhani Kranti

Perkins Long Green

Punjab Padmini

Pusa Makhmali

Pusa Sawani

Red Bhindi

Varsha Uphar

Cultivation

Sowing

Training and Pruning

Manuring and Fertilization

Aftercare

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Harvesting and Postharvest Management

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Climate and Soil

Varieties

Cultivation

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Transplanting

Planting by Bulbs

Direct Sowing

Planting by Sets

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Cultural Operations

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Harvesting and Postharvest Management

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Manuring

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Irrigation

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Bonneville

Harbhajan

Lincoln

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Climate and Soil

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Dandali

Hilli

Shankolia

Swarna Alaukik

Swarna Rekha

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Cultivation

Planting

Manuring and Fertilization

Training

Interculture

Irrigation

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Climate and Soil

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Pusa Vikas

Pusa Vishwas

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Seed Production

Hybrid Seed Production

Harvesting and Postharvest Management

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Climate and Soil

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Asiatic or Tropical

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Japanese White

Jaunpuri Giant or Newari

Kalyani White

Nadauni

Punjab Safed

Pusa Chetki

Pusa Desi

Pusa Himani

Pusa Reshmi

European or Temperate Varieties

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Rapid Red White Tipped

Scarlet Globe

White Icicle

Cultivation

Preparation of Land

Sowing

Manuring and Fertilization

Interculture

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Growth Regulators

Seed Production

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Climate and Soil

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Climate and Soil

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Tinda Ludhiana

Tinda Tonk

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Pusa Chandrima

Pusa Kanchan

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Pusa Sweti

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Arka Manik

Asahi Yamato

Durgapura Kesar

Durgapura Meetha

Improved Shipper

New Hampshire Midget

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Treatment with Growth Substance

Treatment with Fungicides

Temperature

Biochemical Changes during Germination

Seedling Growth

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Effect of Insecticides

Irradiation

Vegetative Propagation

Cutting

Type of Cutting

Etiolation and Girdling

Media

Season

Clonal Variations

Effect of Growth Substances

Stock Plant

Oxygen

Fungicide and Nematicide

Type of Cutting and Growth Substances

Type of Cutting and Media

Type of Cutting and Season

Type of Cutting, Media and Temperature

Type of Cutting, Season and Growth Substances

Type of Cutting, Media and Growth Substance

Type of Cutting and Treatment with Nutrients

Growth Substance, Media and Temperature

Type of Cutting, Light, Humidity, Media and Growth

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Other Treatments

Root Cutting

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Grafting

Methods

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Rootstock

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Micropropagation

50. CACAO

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Germination

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Air Drying

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Position of Seed in Pod

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Media

Sugar

Endogenous Substances

Seedling Survival and Growth

Stage of Harvest of Seeds

Container and Media

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Vegetative Propagation

Cutting

Stock Plant

Type of Cutting

Media

Humidity

Light

Effect of Growth Substances

Type of Shoot and Growth Substances

Etiolation

Growth Substance and Fungicides

Type of Cutting and Growth Substance

Media and Light

Media and Growth Substance

Type of cutting and Humidity

Type of Cutting, Media and Humidity

Type of Cutting, Growth Substance and Media

Type of Cutting, Media, Humidity and Temperature

Type of Cutting, Media, Light and Growth Substances

Humidity, Temperature, Growth Substance and Light

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Effect of Cover

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Seedling Growth

Depth of Sowing

Container

Media

Growth Substances, Fungicides and Nutrition

Vegetative Propagation

Root Sucker

Cutting

Type of Cutting

Time of Taking Cutting

Media

Humidity

Temperature

Effect of Growth Substances

Type of Cutting and Growth Substances

Type of Cutting, Media and Temperature

Type of Cutting, Media and Growth Substances

Growth Substances and Media

Media, Temperature and Humidity

Root Cutting

Leaf Cutting

Layering

Stooling

Grafting

Methods

Type of Scion

Season

Effect of Leaves

Growth of Grafted Plants

Top Working

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Micropropagation

52. RUBBER

Seed Propagation

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Viability

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Ringing

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Humidity and Temperature

Type of Cutting and Growth Substances

Grafting

Methods

Performance of Grafted and Budded Plants

Budding

Methods

Selection of Budwood

Age of Rootstock

Budding Material

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Performance of Budded Plants

Top Working

Rootstock

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Resistant to Pests and Diseases

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Micropropagation

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Storage and Viability

Germination

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Micropropagation

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Selection of Seedlings

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Cultivation

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Land Preparation

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Training/pruning

Manuring and Fertilization

Aftercare

Irrigation

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Cultivation

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Manuring and Fertilization

Aftercare

Irrigation

Harvesting and Postharvest Management

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Manuring and Fertilization

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Golsey

Ramla

Ramsey

Sawney

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Cultivation

Planting

Aftercare

Irrigation

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Irrigation

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60. CLOVE

Climate and Soil

Propagation

Cultivation

Planting

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Sadhna

Swathi

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Weed Control

Irrigation

Harvesting and Postharvest Management

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Climate and Soil

Varieties

Cultivation

Sowing

Manuring and Fertilization

Weed control

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Physiological Disorder

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Climate and Soil

Varieties

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Hissar Sonali

Cultivation

Sowing

Manuring and Fertilization

Weed Control

Irrigation

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Climate and Soil

Varieties

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Winged Be

Winged Bean

Harvesting and Handling

Winged Bean

Storage

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About NIIR

NIIR PROJECT CONSULTANCY SERVICES (NPCS) is a reliable name in the industrial world for offering integrated technical consultancy services. NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

Our various services are: Detailed Project Report, Business Plan for Manufacturing Plant, Start-up Ideas, Business Ideas for Entrepreneurs, Start up Business Opportunities, entrepreneurship projects, Successful Business Plan, Industry Trends, Market Research, Manufacturing Process, Machinery, Raw Materials, project report, Cost and Revenue, Pre-feasibility study for Profitable Manufacturing Business, Project Identification, Project Feasibility and Market Study, Identification of Profitable Industrial Project Opportunities, Business Opportunities, Investment Opportunities for Most Profitable Business in India, Manufacturing Business Ideas, Preparation of Project Profile, Pre-Investment and Pre-Feasibility Study, Market Research Study, Preparation of Techno-Economic Feasibility Report, Identification and Section of Plant, Process, Equipment, General Guidance, Startup Help, Technical and Commercial Counseling for setting up new industrial project and Most Profitable Small Scale Business.

NPCS also publishes varies process technology, technical, reference, self employment and startup books, directory, business and industry database, bankable detailed project report, market research report on various industries, small scale industry and profit making business. Besides being used by manufacturers, industrialists and entrepreneurs, our publications are also used by professionals including project engineers, information services bureau, consultants and project consultancy firms as one of the input in their research.

Our Detailed Project report aims at providing all the critical data required by any entrepreneur vying to venture into Project. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.

NIIR PROJECT CONSULTANCY SERVICES, 106-E, Kamla Nagar, New Delhi-110007, India. Email: npcs.india@gmail.com Website: NIIR.org

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