

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, stem, 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 vegetables, 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 Plantation 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
Tropical or Asiatic Types
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
Chavakacheri Muringai
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

Harvesting and Postharvest Management

Physiological Disorders

24. GARLIC

Climate and Soil

Varieties

Propagation and Planting Material

Cultivation

Planting

Manuring and Fertilization

Aftercare

Irrigation

Harvesting and Postharvest Management

Physiological Disorders

25. KALE

Climate and Soil

Varieties

Cultivation

Manuring and Fertilization

Irrigation

Interculture

Harvesting and Postharvest Management

26. KNOL-KHOL

Climate and Soil

Varieties

King of North

Large Green

Purple Vienna

White Vienna

Cultivation
Planting
Manuring and Fertilization
Aftercare
Irrigation
Harvesting and Postharvest Management

27. LABLAB BEAN

Climate and Soil
Varieties
Pusa Early Prolific
Cultivation
Field Preparation
Aftercare
Harvesting and Postharvest Management

28. LETTUCE

Climate and Soil
Varieties
Cultivation
Propagation
Planting
Manuring
Aftercare
Irrigation
Harvesting and Postharvest Management
Physiological Disorder

29. MUSKMELON

Climate and Soil
Varieties
Arka Jeet
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
Arka Abhay
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
Irrigation
Harvesting and Postharvest Management

31. ONION

Climate and Soil
Varieties
Cultivation
Planting
Transplanting
Planting by Bulbs
Direct Sowing
Planting by Sets
Manuring and Fertilization
Cultural Operations
Irrigation
Harvesting and Postharvest Management

32. PALAK OR INDIAN SPINACH

Climate and Soil
Varieties
Cultivation
Sowing
Planting
Manuring
Aftercare
Irrigation
Harvesting and Postharvest Management

33. PARSLEY

Climate and Soil
Varieties
Cultivation
Manuring and Fertilization
Irrigation
Interculture
Harvesting and Postharvest Management

34. PEA

Climate and Soil
Varieties
Arkel
Bonnaville
Harbhajan

Lincoln
Cultivation
Planting
Manuring and Fertilization
Aftercare
Irrigation
Harvesting and Postharvest Management

35. POINTED GOURD

Climate and Soil

Varieties

CHES Elite Line

Chhota Hilli

Dandali

Hilli

Shankolia

Swarna Alaukik

Swarna Rekha

Propagation

Cultivation

Planting

Manuring and Fertilization

Training

Interculture

Irrigation

Harvesting and Postharvest Management

36. PUMPKIN

Climate and Soil

Varieties

Ambili

Arka Chandan

Pusa Vikas

Pusa Vishwas

Cultivation

Sowing

Land Preparation

Interculture

Irrigation

Off-season Cultivation

Seed Production

Hybrid Seed Production

Harvesting and Postharvest Management

37. RADISH

Climate and Soil

Varieties

Asiatic or Tropical

Arka Nishant

Japanese White

Jaunpuri Giant or Newari

Kalyani White

Nadauni

Punjab Safed

Pusa Chetki

Pusa Desi

Pusa Himani
Pusa Reshmi
European or Temperate Varieties
Chinese Pink
Rapid Red White Tipped
Scarlet Globe
White Icicle

Cultivation
Preparation of Land
Sowing
Manuring and Fertilization
Interculture
Irrigation
Growth Regulators
Seed Production
Postharvest Management
Physiological Disorders

38. RIDGE GOURD

Climate and Soil
Varieties

Pusa Nasdar
Satputia
Cultivation

Sowing
Interculture

39. ROUND MELON

Climate and Soil
Varieties

Arka Tinda
Tinda Ludhiana
Tinda Tonk
Tamil Nadu Selection

Cultivation
Planting
Manuring and Fertilization
Interculture
Irrigation

Harvesting and Postharvest Management

40. SNAKE GOURD

Climate and Soil
Varieties

Cultivation
Sowing

Interculture
Harvesting and Postharvest Management

41. SPINACH

Climate and Soil
Varieties

Cultivation
Propagation
Planting
Manuring
Aftercare

Irrigation
Harvesting and Postharvest Management
42. SPONGE GOURD
Climate and Soil
Varieties
Cultivation
Sowing
Interculture
Harvesting and Postharvest Management
43. TOMATO
Climate and Soil
Varieties
Cultivation
Raising seedlings
Direct Seeding
Planting
Training and Pruning
Aftercare
Irrigation
Seed Production
Harvesting and Postharvest Management
Physiological Disorders
44. TURNIP
Climate and Soil
Varieties
Early Milan Red Top
Golden Ball
Purple Top White Globe
Pusa Chandrima
Pusa Kanchan
Pusa Swarnima
Pusa Sweti
Snow Ball
Cultivation
Manuring and Fertilization
Irrigation
Interculture
Seed Production
Harvesting and Postharvest Management
Physiological Disorder
45. WATERMELON
Climate and Soil
Varieties
Arka Jyoti
Arka Manik
Asahi Yamato
Durgapura Kesar
Durgapura Meetha
Improved Shipper
New Hampshire Midget
Pusa Bedana
Sugar Baby
Cultivation

Pruning and Training
Manuring and Fertilization
Aftercare
Forcing Watermelons out of Season
Irrigation
Harvesting and Postharvest Management

46. POLYHOUSE VEGETABLE PRODUCTION IN SUBTROPICS

Selection of Sites
Polyhouse Structures
Frames and Cladding Material
Environment Control
Selection of Vegetables
Nursery Raising
Off-season Vegetables Production
Aftercare

47. POLYHOUSE VEGETABLE PRODUCTION IN TEMPERATE REGIONS

Polyhouses
Benefits
Status
Indian Polyhouses
Plastic Low Tunnels
Soil Trench
Site Selection
Polyhouse Structure
Vegetable Production
Nursery Raising
Vegetable Production
Seed Production
Hydroponics and Micropropagated Vegetables
Polyhouse Pests and Diseases
Some Problems
Prospects in India

48. VEGETABLES GROWING IN CONTAINERS

Types of Containers
Tools, Manures, Seeds, Fungicides and Insecticides
Suitable Vegetables and their Varieties
Cultivation
Sowing/planting
Aftercare
Harvesting and Postharvest Management

PROPAGATION OF PLANTATION CROPS

49. TEA

Seed Propagation
Storage
Germination
Seed-Size
Seed-Coat
Treatment with Growth Substance
Treatment with Fungicides
Temperature
Biochemical Changes during Germination

Seedling Growth
Seed Size
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 Substance
Storage of Cutting
Other Treatments
Root Cutting
Performance of Plants from Cutting
Layering
Grafting
Methods
Budding
Rootstock
Effect on Growth and Yield
Micropropagation
50. CACAO
Seed Propagation
Storage and Viability
Germination
Stage of Harvest
Depth of Sowing
Air Drying
Size of Pod
Position of Seed in Pod
Temperature
Media
Sugar
Endogenous Substances
Seedling Survival and Growth
Stage of Harvest of Seeds
Container and Media
Effect of Growth Substance and Antitranspirant

Hybrids
Age of Seedling at Transplanting
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
Clonal Variation
Hardening of Cutting
Layering
Grafting
Budding
Methods
Preparation of Budwood
Top Working
Rootstock
Effect on Growth and Yield
Incompatibility
Effect of Different Methods of Propagation
Micropropagation
51. COFFEE
Seed Propagation
Viability
Germination
Collection of Seed
Moisture Content of Seed
Effect of Cover
Media
Seed Treatment
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
Budding
Storage of Budwood
Rootstock
Compatibility
Growth and Adaptability to Environment
Nematode, Disease and Pest Resistant Rootstock
Micropropagation
52. RUBBER
Seed Propagation
Harvesting
Viability
Germination
Seedling Growth
Vegetative Propagation
Cutting
Type of Cutting
Juvenility
Ringing
Effect of Light
Effect of Growth Substances
Effect of Fungicides
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
Treatment

Care of Budded Plants
Performance of Budded Plants
Top Working
Rootstock
Effect on Growth and Yield
Resistant to Pests and Diseases
Influence of Scion on Growth and Yield
Micropropagation

53. OIL PALM

Seed Propagation
Storage and Viability
Germination
Effect of Media and Temperature
Effect of Oxygen
Effect of Irradiation
Effect of Growth Substances
Biochemical Changes
Seedling Growth
Storage of Clone
Vegetative Propagation
Micropropagation

54. ARECANUT

Seed Propagation
Selection of Seed Nuts and Viability
Germination
Raising of Seedling
Selection of Seedlings
Vegetative Propagation
Layering

SPICES

55. BETELVINE

Climate and Soil
Varieties
Propagation
Cultivation
Construction of Bareja or Boroj
Raising of Support Plant in Open Cultivation
Land Preparation
Soil Treatment
Planting
Training/pruning
Manuring and Fertilization
Aftercare
Irrigation
Harvesting and Postharvest Management

56. BLACK PEPPER

Climate and Soil
Varieties
Propagation
Cultivation
Planting
Training/pruning
Manuring and Fertilization

Aftercare
Irrigation
Harvesting and Postharvest Management
57. CARDAMOM (SMALL)
Climate and Soil
Varieties
Propagation
Cultivation
Planting
Manuring and Fertilization
Aftercare
Irrigation
Harvesting and Postharvest Management
58. CARDAMOM (LARGE)
Climate and Soil
Varieties
Bebo
Bharlangey
Golsey
Ramla
Ramsey
Sawney
Propagation
Primary Nursery
Secondary Nursery
Cultivation
Planting
Aftercare
Irrigation
Shade Regulation
Roguing and Gap-filling
Manuring and Fertilization
Harvesting and Postharvest Management
59. CINNAMON
Climate and Soil
Varieties
Propagation
Cultivation
Planting
Manuring and Fertilization
Irrigation
Harvesting and Postharvest Management
60. CLOVE
Climate and Soil
Propagation
Cultivation
Planting
Manuring and Aftercare
Irrigation
Postharvest Management
61. CORIANDER
Climate and Soil
Varieties

Sindhu
Sadhna
Swathi
Cultivation
Sowing
Manuring and Fertilization
Weed Control
Irrigation
Harvesting and Postharvest Management
Physiological Disorders

62. CUMIN

Climate and Soil
Varieties
Cultivation
Sowing
Manuring and Fertilization
Weed Control
Irrigation
Harvesting and Postharvest Management

63. FENNEL

Climate and Soil
Varieties
Cultivation
Sowing
Manuring and Fertilization
Weed control
Irrigation
Harvesting and Postharvest Management
Physiological Disorder

64. FENUGREEK

Climate and Soil
Varieties
Rajendra Kanti
Hissar Sonali
Cultivation
Sowing
Manuring and Fertilization
Weed Control
Irrigation
Harvesting and Postharvest Management

65. GINGER

Climate and Soil
Varieties
Cultivation
Planting
Manuring and Fertilization
Weeding and Mulching
Rotation and Intercropping of Ginger
Harvesting and Postharvest Management

66. NUTMEG

Climate and Soil
Varieties
Propagation and Rootstock

Cultivation
Nursery
Planting
Aftercare
Irrigation
Harvesting and Postharvest Management

67. TAMARIND

Climate and Soil

Varieties

Urigam

Cultivation

Propagation

Planting

Aftercare

Harvesting and Postharvest Management

68. TURMERIC

Climate and Soil

Varieties

Propagation

Cultivation

Manuring and Fertilization

Aftercare

Intercropping

Irrigation

Harvesting and Postharvest Technology

MEDICINAL PLANTS

69. ASGAND

70. DILL

71. GUGGAL

72. HENBANE

73. ISABGOL

74. KHASI KATERI

75. LIQUORICE

76. OPIUM POPPY

77. PERIWINKLE

78. PIPALI

79. RAUVOLFIA

80. SENNA

AROMATIC PLANTS

81. AMBRETTE SEED OR MUSKDANA

82. CELERY

83. CHAMOMILE

84. DAVANA

85. FRENCH JASMINE

86. INDIAN BASIL

87. JAVA CITRONELLA

88. KEWADA

89. LEMON GRASS

90. MINT

Peppermint

Spearmint

Bergamot Mint

91. PALMAROSA OIL GRASS

92. PATCHOULI

93. ROSE GERANIUM

94. SCENTED ROSE

95. VETIVER

96. BIOFERTILIZERS

Nitrogen Fixing Biofertilizers

Symbiotic Nitrogen Fixation

Asymbiotic Nitrogen Fixation

Azotobacter

Phosphate Solubilizing Biofertilizers

Mycorrhizal Fungi

Actinorhizal Plants

Biofertilizers in Vegetable Cultivation

Seed Treatment

Cutting/Set Treatment

Seedling Treatment

97. MANAGEMENT OF DISEASES

Disease Management

Escape From Pathogen

Preventing Entry of Inoculum

Eradication

Protection

Reaction of Host Crop

Prophylactic Measures (Therapeutics)

Biological Control

Chemical Control

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Harvesting

Postharvest Management

Drying, Curing and Grading

Dormancy

Postharvest Losses

Physiological Losses

Pathogenic Losses

Refrigerated Storage

Non-refrigerated Storage

Traditional Storage

Processing

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TUBER CROPS

Cassava

Harvesting and Handling

Storage

Utilization

Processing

Toxic Principles

Sweet Potato

Harvesting and Handling

Storage

Utilization

Processing

Anti-nutritional Factors

Elephant-Foot Yam

Harvesting and Handling

Utilization

Anti-nutritional Factors

Taro

Harvesting and Handling

Storage

Utilization

Anti-Nutritional Factors

Tannia

Harvesting and Handling

Storage

Utilization

Anti-Nutritional Factors

Lesser Yam

Harvesting and Handling

Storage

Utilization

Greater Yam

Harvesting and Handling

Storage

Utilization

White Yam

Harvesting and Handling

Storage

Utilization

Arrow-Root

Harvesting and Handling

Utilization

Chinese Potato

Harvesting and Handling

Storage

Utilization

Yam Bean

Harvesting and Handling

Storage

Utilization

Winged Bean

Harvesting and Handling

Winged Bean

Storage

Utilization

100. POSTHARVEST MANAGEMENT OF MUSHROOMS

Postharvest Technologies

Handling Fresh Mushrooms

Harvesting

Pre-Cooling

Sorting

Dipping/Treatments

Packaging

Transportation

Storage

Processing

Low Temperature

High Temperature
Drying
Chemicals
Pickling and Lactic Acid Fermentation
Irradiation
Minimal Processing
Other Products
Future Thrust and Export
101.Tools and Equipments used in Horticulture

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 various 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.

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