Cultivation of Fruits & Flowers

(Citrus, Grape, Banana, Mango, Pineapple, Papaya, Litchi, Guava, Coconut, Cashewnut, Avocado, Olive, Ber, Fig, Jamun, Sweet William, Wall Flower, Rudbeckia, Marigold, Limonium, Garden Poppy, Godetia, Rose)
Introduction

Tropical and subtropical plants grow in tropical jungles around the world. These plants often produce stunning blooms in a range of colors, and bring a unique and exotic feel to their growing environment. Although they hail from moist areas, many tropical and subtropical plants require warmth more than moisture. Some species of tropical plants are therefore quite easy to grow in warm, non tropical areas.

One of the great characteristics of tropical plants is that they keep growing all season. There are thousands of tropical and subtropical fruits and flowers. The tropics have the capacity to produce large quantities of fruit and international trade is adding new kinds as rapid shipment possibilities increase.
Some tropical fruits such as the banana, mango and pineapple are now as familiar as the apple and pear in temperate regions. Other examples of tropical fruits are grape, papaya, litchi, guava, coconut etc. In comparison with fruits of temperate regions, many tropical species have been much neglected in international markets. Citrus cultivation is carried out on a large scale. Citrus is grown worldwide although they are tropical plants so that most of the commercial groves are in subtropical regions. It is usually grown at sea level where sufficient moisture is readily available, or under irrigation. Any well drained soil, except an extremely sandy one, is suitable. The fruits ripen at different times of the year depending on the species and variety.
There are various kinds of tropical flowers; Aster (Callistephus chinensis), Jasmine (Jasminum sp.), Calendula (Calendula officinalis), Carnation (Dianthus caryophyllus), Lily (Lilium spp.), Narcissus (Narcissus spp.), Orchids and many more. Flowers require sincere, patient, soft, affectionate as well as expert handling. Most houseplants are tropical plants. That's why they do so well indoors, at temperature levels humans find comfortable in their homes, around 60 F to 90 F. More technically, tropical plants are defined as all vegetation growing in a wide band around the equator between the Tropic of Cancer and the Tropic of Capricorn. Just north and south of that band are the subtropical areas, also rich in plants of interest to our group.
Market Outlook

India is the second largest producer of fruits in the world with an annual production of 81.2 million tonnes contributing 12.6% of world fruit production next only to China (21.2%). Of late, with growing population and realization of commercial and nutritional values, the demand and requirement for fruits has increased manifold globally and so is in India. Since then, India has managed a steady growth in area expansion and production of fruits.

Global tropical fruit imports for the past decade and a half have netted more than US$2.2 billion.
Production Share of Major Fruit Crops in India

- Banana: 33.4%
- Mango: 20.7%
- Papaya: 6.3%
- Guava: 4.1%
- Litchi: 0.7%
- Others: 11.1%
- Citrus: 12.5%
- Grapes: 2.9%
- Apple: 2.8%
- Sapota: 2.0%
- Pomegranate: 1.5%
- Pineapple: 2.0%
INDIA PRODUCTION of FLOWERS

<table>
<thead>
<tr>
<th>Year</th>
<th>Production (in units)</th>
</tr>
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<tbody>
<tr>
<td>2006-07</td>
<td>880</td>
</tr>
<tr>
<td>2007-08</td>
<td>868</td>
</tr>
<tr>
<td>2008-09</td>
<td>987</td>
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<tr>
<td>2009-10</td>
<td>1021</td>
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<td>2011-12</td>
<td>1652</td>
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<tr>
<td>2012-13</td>
<td>1729</td>
</tr>
<tr>
<td>2013-14</td>
<td>1754</td>
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</table>
Mango (Mangifera indica Linn) is the most important fruit of India and is known as “King of fruits”. The fruit is cultivated in the largest area i.e. 2,312 thousand ha and the production is around 15.03 million tons, contributing 40.48% of the total world production of mango.
India Export of Mango to Top 10 Countries

[Graph showing the export of mangoes to different countries, with United Arab Emirates, Bangladesh, United Kingdom, and Saudi Arabia having the highest quantities.]
This book basically deals with seed propagation extraction and handling, effect of seed treatment and temperature on germination, vegetative propagation, effect of rootstocks on mineral composition, type of cutting, growth substances and season, postharvest management of fruits and vegetables, factors affecting postharvest life of flowers, postharvest management of flowers, postharvest management of spices, postharvest management of plantation crops, control of ripening process, pelletization, transportation, storage etc.
Plant propagation is an important aspect of agriculture in general and horticulture in particular. This book contains new methods for cultivation of tropical, subtropical fruits and flowers. The book is very useful for agriculture universities library, consultants, new entrepreneurs, plantation companies, farmers who wants to update their knowledge and adopt new cultivation techniques.
1. CITRUS

- Seed Propagation
- Extraction and handling
- Viability
- Storage
- Effect of Seed Treatment and Temperature on Germination
- Seed treatment to control Fungal diseases
- Polyembryony
- Vegetative Propagation
- Cutting
- Air-Layering
• Budding
• Methods of Budding
• Selection, Preparation and Storage of Budwood
• Time of Budding
• Age of Rootstock and Height of Budding
• Wrapping Material and Lopping
• Decline of Dudded Tree
• Rootstocks
• Suitability of Rootstocks
• Effect of Rootstocks on Tree-size, Yield and Quality of Fruits
• Incompatibility
• Disease and Pest Resistant Rootstocks
• Frost-resistant Rootstocks
• Effect of Rootstocks on Mineral Composition
• Dwarfing Rootstocks
• Rootstock in Relation to Soil
• Salt Tolerant Rootstock
• Drought Tolerant Rootstock
• Interstock
• Micropropagation
• Shoot-tip Grafting
2. GRAPE

- Seed Propagation
- Germination
- Effect of Temperature
- Effect of Growth Substances and Other Chemicals
- Effect of Irradiation
- Biochemical Changes
- Vegetative Propagation
- Cutting
- Type of Shoot and Length of Cutting
- Effect of Season and Temperature
- Effect of Water Treatment
- Effect of Growth Substances
- Mist and Media
- Other Treatments Influencing Root Formation
• Storage of Cutting
• Biochemical Changes During Root Formation
• Anatomy of Root Formation
• Single-Bud Cutting
• Layering
• Grafting
• Methods
• Effect of Rootstock on Graft Union
• Effect of Season
• Effect of Growth Substances and Other Chemicals
• Stratification
• Use of Paraffin
• Other Factors Influencing Graft Union
• Storage of Graft
• Biochemical changes
• Top Working
• Budding
• Methods
• Effect of Season
• Effect of Rootstock
• Storage of Bud
• Effect of Methods of Propagation
• Source of Scion
• Rootstock
• Adaptability of Soil and Climate
• Disease and Nematode Resistant Rootstock
• Effect of Rootstock on Growth, Yield and Quality
• Effect of Rootstock on Mineral Composition
• Incompatibility
• Micropropagation
• Anther Culture
• Ovule and Embryo Culture
• Protoplast Culture
• Microcutting
• Growth Variation

3. BANANA

• Seed Propagation
• Vegetative Propagation
• Suckers, Peepers and Corms
• Micropropagation
4. MANGO

- Seed Propagation
- Polyembryony
- Storage
- Germination
- Vegetative Propagation
- Cutting
- Part and Age of Plant
- Effect of Forcing, Ringing and Etiolation
- Effect of Bottom Heat
- Effect of Growth Substances and Other Chemicals
- Effect of Age of Cutting, Bottom Head and
- Growth Substance
- Life of Cutting
• Biochemical Changes
• Layering
• Air-Layering
• Etiolation
• Media
• Effect of Growth Substances
• Biochemical Changes
• Stooling
• Grafting
• Method
• Effect or Stock and Scion on Graft Union
• Effect of Season
• Effect of Growth Substances
• Anatomy of Graft Union
• Budding
• Methods
• Budding in Situ
• Effect of Stock and Scion
• Season
• Growth Substance
• Storage of Budwood
• Anatomy of Bud-Union
• Effect of Different Methods of Propagation
• Rootstock
• Effect of Rootstock on Growth and Yield
• Salt Tolerance
• Anatomical Screening
• Micropopagation
5. PINEAPPLE

- Seed Propagation
- Germination
- Vegetative Propagation
- Type of Planting Material
- Size and Weight of Planting Material
- Storage of Planting Material
- Micropropagation
6. PAPAYA

- Seed Propagation
- Storage
- Germination
- Vegetative Propagation
- Cutting
- Grafting
- Micropropagation
7. LITCHI

- Seed Propagation
- Germination
- Vegetative Propagation
- Cutting
- Humidity
- Effect of Growth Substances
- Layering
- Air-Layering
- Media
- Season
- Growth Substances
- Wrapping Material
- Biochemical Changes
- Stooling
- Grafting
8. GUAVA

- Seed Propagation
- Germination
- Vegetative Propagation
- Cutting
- Type of Cutting
- Season
- Humidity
- Effect of Growth Substances
- Growth Substances and Media
- Type of Cutting and Growth Substances
- Biochemical Changes
- Root Cutting
- Layering
- Air-Layering
• Methods
• Effect of Growth Substances
• Stooling
• Grafting
• Type of Scion
• Season
• Budding
• Methods
• Season
• Rootstock
• Effect of Rootstock on Growth and Yield
• Disease and Pest Resistant Rootstocks
• Micropropagation
9. COCONUT

- Seed Propagation
- Germination
- Time of Seed-Nut Harvest
- Storage of Nut
- Selection of Nuts
- Seed Treatment
- Raising of Seedlings
- Time of Planting
- Method of Planting
- Watering
- Seedling Growth
- Vegetative Propagation
- Layering
- Micropropagation
10. CASHEW NUT

- Seed Propagation
- Germination
- Seedling Growth
- Vegetative Propagation
- Cutting
- Effect of Growth Substances
- Effect of Ringing and Growth Substances
- Layering
- Air-Layering
• Effect of Growth Substances
• Stooling
• Grafting
• Methods
• Season
• Age of Stock and Season
• Budding
• Top Working
• Micropropagation
11. AVOCADO

- Seed Propagation
- Storage and Viability
- Germination
- Seedling Growth
- Vegetative Propagation
- Cutting
- Type of Cutting
- Etiolation and Ringing
- Effect of Growth Substances
- Clonal Variation
- Type of Cuttings and Humidity
- Growth Substances and Temperature
- Type of Cutting and Temperature
- Type of Cutting Temperature and Media
- Type of cutting, Growth Substances and Humidity
- Type of Cutting Etiolation and Growth Substances
- Endogenous Growth Substances
- Leaf Cutting
- Layering
- Air-Layering
- Grafting
- Methods
- Storage of Scion
- Anatomy of Graft Union
- Top Working
- Budding
- Methods
- Comparison between Grafting and Budding
• Rootstock
• Success
• Effect of Vigour and Yield
• Salt Tolerance
• Resistance to Chlorosis
• Resistance to Diseases
• Interstock
• Control of Sprout from Rootstock
• Micropropagation
12. OLIVE

- Seed Propagation
- Germination
- Stage of Maturity
- Storage
- Seed Development and Growth Substances
- Temperature
- Seed Treatment
- Vegetative Propagation
- Ovuli
- Sucker
- Cutting
- Type of Cutting
- Effect of Growth Substances
- Media
• Type of Cutting and Growth Substances
• Effect of Growth Substance and Fungicide
• Effect of Growth Substances and Nutrients
• Growth Substances and Media
• Growth Substances and Cultivars
• Growth Substances and Season
• Growth Substance and Humidity
• Season
• Season and Temperature
• Season and Media
• Cultivar and Temperature
• Media and Humidity
• Type of Cutting, Growth Substances and Season
• Type of Cutting, Growth Substances and Media
• Type of Cutting, Growth Substances and Humidity
• Cultivar, Growth Substances, Media and Season
• Media, Temperature and Humidity
• Growth Substance, Temperature and Humidity
• Layering
• Grafting
• Methods
• Rootstock for Grafting
• Anatomy of Graft Union
• Budding
• Budding and Grafting
• Rootstock
• Micropropagation
13. SAPOTA

- Seed Propagation
- Vegetative Propagation
- Layering
- Etiolation and Girdling
- Effect of Growth Substances
- Metabolic Changes
- Grafting
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- Micro Propagation
14. BER

- Seed Propagation
- Development of Seed
- Germination
- Factors Affecting seed Germination
- Seed Treatment
- Media
- Seedling Performance
- Vegetative Propagation
- Cutting
- Effect of Growth Substances
- Effect of Temperature
- Layering
- Air-Layering
- Effect of Growth Substances
- Stooling
- Budding
- Top Working
- Grafting
- Rootstock
- Micropropagation
15. FIG

- Seed Propagation
- Vegetative Propagation
- Cutting
- Type of Cutting
- Type of Cutting and Season
- Effect of Growth Substances
- Type of Cutting and Fungicide
- Microprogagation
16. JAMUN

- Seed Propagation
- Germination
- Vegetative Propagation
- Cutting
- Type of Cutting
- Effect of Growth Substances
- Layering
- Grafting
- Budding
17. JACKFRUIT

- Seed Propagation
- Germination
- Vegetative Propagation
- Cutting
- Layering
- Air-Layering
- Stooling
- Grafting
- Budding
- Rootstock
- Micropropagation
18. DATEPALM

- Seed Propagation
- Germination
- Temperature and Chemicals
- Histochemical Changes
- Vegetative Propagation
- Offshoot
- Micropropagation

19. ANONA

- Seed Propagation
- Dormancy
- Germination
- Vegetative Propagation
• Cutting
• Grafting
• Budding
• Rootstock
• Micropropagation

20. POMEGRANATE

• Vegetative Propagation
• Suckers
• Cuttings
• Type of Cutting
• Effect of Growth Substances
• Air-Layering
• Top-Working
• Micro Propagation
21. PERSIMMON

- Seed Propagation
- Storage and Viability
- Germination
- Seedling Growth
- Vegetative Propagation
- Sucker
- Root Cutting
- Grafting
- Method
- Season
- Storage of Scion
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- Anatomy of Root Formation
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• Germination
• Vegetative Propagation
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- Climate and Soil
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- Amaranthus
- Anchusa
- Antirrhinum
- Arctotis
- Balsam
• Calendula
• Candytuft
• Carnation (annual)
• Celosia
• China Aster
• Chrysanthemum (annual)
• Cineraria
• Clarkia
• Coreopsis
• Cornflower
• Cosmos
• Daisy
• Dianthus
• Dimorphotheca
• Eschscholzia
• Gaillardia
- Garden Poppy
- Gazania
- Godetia
- Gomphrena
- Gypsophila
- Helichrysum
- Hollyhock
- Larkspur
- Limonium
- Linaria
- Lupin
- Marigold
- Matricaria
- Mignonette
- Myosotis
- Nasturtium

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• Nemesia
• Nicotiana
• Nigella
• Pansy
• Petunia
• Phlox
• Portulaca
• Primula
• Rudbeckia
• Salvia
• Scabiosa
• Schizanthus
• Stock
• Sunflower
• Sweet Alyssum
• Sweet Pea
• Sweet Sultan
- Sweet William
- Venidium
- Viola
- Wall Flower
- Zinnia
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- Cultivation
- Planting
- Manuring and Fertilization
- Growth and Flowering
- Aftercare
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  - Orange
  - White
  - Pink
  - Obake Types
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- Cultivation
- Planting
- Manuring and Fertilization
- Aftercare
- Irrigation
- Harvesting and Postharvest Management
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- Growing Structures
- Cultivation
- Planting
- Pinching
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- Supplementary Lighting
- Growth Regulators
- Nutrition

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• Irrigation
• Harvesting and Postharvest Management
• Harvesting Stage
• Grading
• Conditioning of Flowers
• Packaging and Transportation
• Physiological Disorders
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- Garland Purpose
- Cut Spray
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- Seeds
- Suckers
- Cuttings
- Cultivation
- Training
- Manuring and Fertilization
- Aftercare
- Irrigation
- Harvesting and Postharvest Management
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- Tissue Culture
- Corm Dormancy
- Cultivation
- Land Preparation
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- Manuring and Fertilization
- Interculture
- Irrigation
- Harvesting and Postharvest Management
- Physiological Disorder
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- J. sambac
- J. grandiflorum
- J. auriculatum
- J. multiflorum
- J. arborescens
- J. calophyllum
- J. flexile
- J. humile
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- Planting
- Pruning
- Manuring and Fertilization
- Aftercare
- Irrigation
- Harvesting and Postharvest Management
- Physiological Disorders
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- Varieties
- Propagation
- Cultivation
- Planting
- Manuring and Fertilization
- Aftercare
- Irrigation
- Harvesting and Postharvest Management
- Physiological Disorders
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- Varieties
- Propagation
- Cultivation
- Planting
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- Manuring and Fertilization
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- Disbudding and Pinching
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• Mechanical Control
• Physical Control
• Cultural Control
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• Organic Insecticides
• Naturally Occurring
• Uses of Some Common Insecticides
• Specific Control Measure to Important Pests of
• Some Common Crops
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- Oil extraction
- Copra Moisture Meter
- Copra Storage
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- Coconut Oil
- Edible Copra
- Wet Processiing of Coconut
- Desiccated Coconut
- Coconut Cream
- Coconut Milk Powder
• Virgin Oil
• Medium/low-fat, Desiccated Coconut
• Coconut Cheese
• Coconut Syrup
• Coconut Honey
• Tender coconut water
• Coconut Byproducts
• Coconut Water
• Husk
• Natural Fibre Extraction
• Mechanical Extraction
• Arecanut
• Chali
• Kalipak
• Scented Supari
- Other Uses of Arecanut
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- Sterilization
- Stripping
- Digestion
- Pressing
- Clarification
- Purification
- Nut Recovery
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- Cashew Nut Processing
- Shelling
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- Peeling
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• Cashew Nut Shell Liquid (CNSL)
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• Storage of Dried Beans
• Final Processing
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• Expeller System
• Chocolate Processing
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- Drying Surface
- Dry Recovery
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- Curing
- Value-added Products
- Turmeric
• Ginger
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• Clove
• Value-added Products
• Cinnamon
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- Growing Condition
- Mechanical Injury
- Bacterial and Fungal Infections
- Plugging of Xylem Vessels of cut Flowers
- Moisture Content
- Water Quality
- Ethylene Gas
- Heat Damage
- Factors Affecting Postharvest Life of Flowers
- Stage of Harvesting
- Water Relations

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• Respiration
• Relative Humidity
• Growth Regulators
• Preservative Solutions
• Precooling and Storage
• Packing and Transporting
• Home Care of Cut Flowers
• Care And Management of Different Types of Flowers
  • Loose Flowers
  • Aster (Callistephus chinensis)
  • Crossandra (Crossandra undulaefolia)
  • Jasmine (Jasminum sp.)
  • Tuberose (Polianthes tuberosa)
• Cut Flowers
• Alstroemeria spp.
• Amaryllis and Hippeastrum
• Anthurium (Anthurium andreanum and A. scherzerianum)
• Antirrhinum or Snapdragon (Antirrhinum majus)
• Bird-of-paradise (Strelitzia reginae)
• Calendula (Calendula officinalis)
• Carnation (Dianthus caryophyllus)
• Freesia (Freesia refracta)
• Gerbera (Gerbera jamesonii)
• Gladiolus (Gladiolus spp.)
• Gypsophila (Gypsophila paniculata)
• Lily (Lilium spp.)
• Narcissus (Narcissus spp.)
• Orchids (Arachnis, Aranda, Aranthera, Ascocendra and Epidendrum)
• Cattleya
• Cymbidium
• Dendrobium
• Odontoglossum and Oncidium
• Paphiopedilum
• Phalaenopais
• Rose (Rosa hybrida)
• Tuberose (Polianthes tuberosa)
• Zinnia (Zinnia elegans)
37. POSTHARVEST MANAGEMENT OF FRUITS AND VEGETABLES

- Preharvest Factors
- Selection of Varieties
- Cultural Operations
- Preharvest Treatments
- Maturity
- Harvesting
- Postharvest Factors
- Curing
- Degreening
- Pre-cooling

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• Washing and Drying
• Sorting and Grading
• Disinfestation
• Postharvest Treatments
• Waxing
• Control of Ripening Process
• Ripening of fruits
• Pre-packaging in Plastic Films
• Packaging
• Pelletization
• Transportation
• Storage
• Irradiation
Niir Project Consultancy Services (NPCS) can provide Process Technology Book on Cultivation of Fruits & Flowers (Citrus, Grape, Banana, Mango, Pineapple, Papaya, Litchi, Guava, Coconut, Cashewnut, Avocado, Olive, Ber, Fig, Jamun, Sweet William, Wall Flower, Rudbeckia, Marigold, Limonium, Garden Poppy, Godetia, Rose)

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Economic feasibility study of the Project

Market potential survey/research

Report Compilation

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Who do we serve?

- Public-sector Companies
- Corporates
- Government Undertakings
- Individual Entrepreneurs
- NRI’s
- Foreign Investors
- Non-profit Organizations, NBFC’s
- Educational Institutions
- Embassies & Consulates
- Consultancies
- Industry / trade associations
Sectors We Cover

- Ayurvedic And Herbal Medicines, Herbal Cosmetics
- Alcoholic And Non Alcoholic Beverages, Drinks
- Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin
- Activated Carbon & Activated Charcoal
- Aluminium And Aluminium Extrusion Profiles & Sections,
- Bio-fertilizers And Biotechnology
- Breakfast Snacks And Cereal Food
- Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling
Sectors We Cover

- Bamboo And Cane Based Projects
- Building Materials And Construction Projects
- Biodegradable & Bioplastic Based Projects
- Chemicals (Organic And Inorganic)
- Confectionery, Bakery/Baking And Other Food
- Cereal Processing
- Coconut And Coconut Based Products
- Cold Storage For Fruits & Vegetables
- Coal & Coal Byproduct
Sectors We Cover: CONT...

- Copper & Copper Based Projects
- Dairy/Milk Processing
- Disinfectants, Pesticides, Insecticides, Mosquito Repellents,
- Electrical, Electronic And Computer based Projects
- Essential Oils, Oils & Fats And Allied
- Engineering Goods
- Fibre Glass & Float Glass
- Fast Moving Consumer Goods
- Food, Bakery, Agro Processing
Sectors We Cover

- Fruits & Vegetables Processing
- Ferro Alloys Based Projects
- Fertilizers & Biofertilizers
- Ginger & Ginger Based Projects
- Herbs And Medicinal Cultivation And Jatropha (Biofuel)
- Hotel & Hospitality Projects
- Hospital Based Projects
- Herbal Based Projects
- Inks, Stationery And Export Industries
Sectors We Cover  

- Infrastructure Projects
- Jute & Jute Based Products
- Leather And Leather Based Projects
- Leisure & Entertainment Based Projects
- Livestock Farming Of Birds & Animals
- Minerals And Minerals
- Maize Processing (Wet Milling) & Maize Based Projects
- Medical Plastics, Disposables Plastic Syringe, Blood Bags
- Organic Farming, Neem Products Etc.
Sectors We Cover

- Paints, Pigments, Varnish & Lacquer
- Paper And Paper Board, Paper Recycling Projects
- Printing Inks
- Packaging Based Projects
- Perfumes, Cosmetics And Flavours
- Power Generation Based Projects & Renewable Energy Based Projects
- Pharmaceuticals And Drugs
- Plantations, Farming And Cultivations
- Plastic Film, Plastic Waste And Plastic Compounds
- Plastic, PVC, PET, HDPE, LDPE Etc.
Sectors We Cover  

- Potato And Potato Based Projects
- Printing And Packaging
- Real Estate, Leisure And Hospitality
- Rubber And Rubber Products
- Soaps And Detergents
- Stationary Products
- Spices And Snacks Food
- Steel & Steel Products
- Textile Auxiliary And Chemicals

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Sectors We Cover

- Township & Residential Complex
- Textiles And Readymade Garments
- Waste Management & Recycling
- Wood & Wood Products
- Water Industry (Packaged Drinking Water & Mineral Water)
- Wire & Cable
Contact us

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THANK YOU!!!

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