

# **Perfumes and Flavours Technology Handbook with Manufacturing Formulations, Process, Machinery Equipment Details & Factory Layout (2nd Edition)**

**Author:-** Dr. Himadri Panda

**Format:** paperback

**Code:** NI344

**Pages:** 520

**Price: Rs.1995US\$ 200**

**Publisher:** NIIR PROJECT CONSULTANCY SERVICES

Usually ships within **5** days

Today, Perfume is an important part of everyday lives, and it is mandated by dress code. To begin with, it makes us joyful. If you are out and realize have forgotten to put on perfume, it can be really inconvenient. The perfume choose says a lot about who you are and what kind of personality you have. In fact, your smell reveals more about you than your physical appearance. The global flavors and fragrance market size is CAGR of 4.7%. Rise in demand for car and room fresheners and increase in popularity of aromatherapy are also expected to drive growth of the market for fragrance ingredients. The hospitality industry is also seeing an increase in demand for perfumes to create a relaxing environment. Scents are now generally approved for industrial application, including ambiance fragrances for consumer durables and personal care accessories, a hitherto untapped market. Furthermore, as disposable income rises, more local consumers, particularly young consumers, choose quality goods. Following the global pandemic, a greater emphasis on hygiene products has fueled demand for new and innovative fragrances in hand washes, sanitizers, and floor cleaners.

This book contains in-depth information about Perfumes, covering all elements. Professionals in Perfumery & Cosmetics will find the book extremely useful for quick revision, as well as consumers who are curious about scents in everyday life. This book is also a fantastic resource for people interested in or who have worked in the perfume industry.

Profitable and viable business opportunities exist in the perfume sector. As a result, creating your own business is a good way to get into it. To learn more about the perfume and Flavours industry in depth, read this book. It will assist you in figuring out how to establish your own perfumery. Because of the increasing demand for perfume in today's market, it's a terrific method to earn money.

## **Contents**

### **1. INTRODUCTION**

#### **1.1 Imprecise Terminology**

#### **1.2 Solvent Types**

#### **1.3 Applying Fragrances**

#### **1.4 Fragrance Notes**

#### **1.5 Benefits**

### **2. HOW TO START A PERFUME BUSINESS**

#### **2.1 Steps**

- 2.1.1 Learn the Skills of Making Perfume
- 2.1.2 Create a Business Plan
- 2.1.3 Name Your Business
- 2.1.4 Make Your Perfume Making Business Legal
- 2.1.5 Do Proper Bookkeeping
- 2.1.6 Invent New Scents
- 2.1.7 Purchase the Bottles
- 2.1.8 Create Brand
- 2.1.9 Finalize Packaging
- 2.1.10 Assemble the Perfume
- 2.1.11 Choose Sales Displays
- 2.1.12 Set Up a Website
- 2.1.13 Set Price
- 2.1.14 Decide Which Retailers to Target
- 2.1.15 Contract with a Mass Producer
- 2.1.16 Market the Perfume Line
- 2.1.17 How to Sell Perfumes?

### 3. EVERYTHING NEED TO START A PERFUME BUSINESS

- 3.1 Price
- 3.2 Understanding Brand's Values and Vision
- 3.3 Developing & Manufacturing Perfume
- 3.4 Choosing the Perfect Bottle
- 3.5 Personalized Packaging
- 3.6 Logistics Taken Care
- 3.7 How Long does this Entire Process Take?

### 4. HOW TO MAKE PERFUME

- 4.1 Raw Materials
- 4.2 Manufacturing Process
  - 4.2.1 Collection
  - 4.2.2 Extraction
  - 4.2.3 Blending
  - 4.2.4 Aging
- 4.3 Quality Control
- 4.4 Future

### 5. PERFUME TECHNOLOGY INTERVENTIONS

- 5.1 Extraction of Base Ingredients
    - 5.1.1 Improved Field Distillation Units
    - 5.1.2 Super Critical Fluid Extraction (SCFE)
    - 5.1.3 Rotary Extractors
    - 5.1.4 Ultrasonic Extraction
    - 5.1.5 Microwave Extraction Technologies
  - 5.2 Solvent Free Microwave Extraction (SFME)
  - 5.3 Blending of Essential Oils/Creation of Flavor/  
Fragrances
    - 5.3.1 Artificial Intelligence Powered Fragrance Creation
    - 5.3.2 Automation of Blending Process
    - 5.3.3 Technology Adoption
  - 5.4 Extraction/Isolation
  - 5.5 Creation of Fragrances
- ### 6. AEROSOLS PERFUME
- 6.1 Why Do Aerosols Feel Cold?
    - 6.1.1 Propellants
    - 6.1.2 Valve

6.2 Types of Aerosols

6.3 Aerosol Use

6.4 General Use of Aerosols

6.5 How Aerosol are Cans Made?

6.6 How Aerosols Work

7. PERFUMES FOR MEN

7.1 Eau de Cologne

7.2 Toilet Waters

7.3 Modified Colognes

7.4 Perfumes for Men

8. AROMATIC CHEMICALS USED IN FLAVOUR AND PERFUME COMPOUNDS

8.1 Acetophenone

8.2 Amyl Cinnamic Aldehyde

8.3 Amyl Salicylate

8.4 Anisic Aldehyde

8.5 Benzaldehyde

8.6 Benzyl Acetate

8.7 Benzyl Alcohol

8.8 Benzyl Benzoate

8.9 Benzyl Cinnamate

8.10 Benzylidene Acetone

8.11 Benzyl Salicylate

8.12 Borneol

8.13 Bornyl Acetate

8.14 Cinnamic Acid

8.15 Cinnamic Alcohol

8.16 Cinnamic Aldehyde

8.17 Citral

8.18 Citronellal

8.19 Citronellol

8.20 Coumarin

8.21 p-Cresyl Acetate

8.22 p-Cresyl Methyl Ether

8.23 Cyclamen Aldehyde

8.24 Diphenyl Ketone

8.25 Diphenyl Oxide

8.26 Eugenol

8.27 Geraniol

8.28 Heliotropin

8.29 Hydroxycitronellal

8.30 Indole

8.31 Ionone

8.32 Linalool

8.33 Linalyl Acetate

8.34 Methyl Anthranilate

8.35 Methyl Heptyne Carbonate

8.36 p-Methyl Quinoline 79

8.37 Methyl Salicylate 80

8.38 Musk Ambrette 81

8.39 Musk Ketone 81

8.40 Musk Xylene 82

8.41 Nerol 83

8.42  $\gamma$ -nonalactone 84

8.43	Phenylacetaldehyde	84
8.44	Phenyl Acetic Acid	85
8.45	Phenyl Ethyl Acetate	86
8.46	Phenyl Ethyl Alcohol	86
8.47	Rose Crystals	87
8.48	Rose Oxide	88
8.49	Terpineol	88
8.50	?-Undelactone	89
8.51	Vanillin	90
9.	NATURAL ODOURS OF AROMATIC CHEMICALS	91
9.1	Balsamic	91
9.2	Citrus	91
9.3	Fatty	92
9.4	Flowery	92
9.5	Grassy	92
9.5a	Green-Floral	92
9.6	Harsh-Pungent	93
9.7	Herb-Like	93
9.8	Leaf-Green	93
9.9	Musky	93
9.10	Odorless-Faint	93
9.11	Waxy	93
9.12	Woody	93
9.13	Acacia	94
9.14	Bergamot	94
9.15	Carnation	94
9.16	Cassia	94
9.17	Chrysanthemum	95
9.18	Clove	95
9.19	Clover	95
9.20	Cyclamen	96
9.21	Fern	
9.22	Frangipani	
9.23	Gardenia	
9.24	Geranium	
9.25	Hawthorn	
9.26	Heliotrope	
9.27	Honeysuckle	
9.28	Hyacinth	
9.29	Iris	
9.30	Jasmine	
9.31	Jonquil	
9.32	Lavender	
9.33	Lilac	
9.34	Lily of the Valley	
9.35	Linden	
9.36	Magnolia	
9.37	Mignonette	
9.38	Mimosa	
9.39	Moon Flower	
9.40	Morning Glory	
9.41	Moss	
9.42	Musk	

- 9.43 Narcissus
- 9.44 Orange Blossom
- 9.45 Orchid
- 9.46 Patchouli
- 9.47 Pine (Needles)
- 9.48 Rose
- 9.49 Sweet Pea
- 9.50 Syringa
- 9.51 Tobacco
- 9.52 Treflé
- 9.53 Tuberose
- 9.54 Verbena
- 9.55 Violet
- 9.56 Wallflower
- 9.57 Wisteria
- 9.58 Wintergreen
- 9.59 Ylang Ylang
- 9.60 Seaweed (Algae)
- 9.61 Adonis
- 9.62 Forsythia
- 9.63 Fringe Tree
- 9.64 Fixatives for Perfumes
- 9.65 Ambergris

## 10. BASIC FLAVOURING MATERIALS

- 10.1 Introduction
- 10.2 Natural Flavors Simulated with Synthetic Chemicals
  - 10.2.1 Fruity
- 10.3 Fresh Fruit
  - 10.3.1 Apple
  - 10.3.2 Apricot
  - 10.3.3 Barberry
  - 10.3.4 Bilberry
  - 10.3.5 Blackberry
  - 10.3.6 Black Currant
  - 10.3.7 Blueberry
  - 10.3.8 Cherry (Sweet and Sour)
  - 10.3.9 Cranberry
  - 10.3.10 Date
  - 10.3.11 Fig
  - 10.3.12 Gooseberry
  - 10.3.13 Grape
  - 10.3.14 Grape Fruit
  - 10.3.15 Hop
  - 10.3.16 Huckleberry
  - 10.3.17 Lemon
  - 10.3.18 Lime
  - 10.3.19 Loganberry
  - 10.3.20 Mandarin
  - 10.3.21 Melon (Watermelon)
  - 10.3.22 Mulberry
  - 10.3.23 Orange
  - 10.3.24 Peach (Freestone, Clin Gstone, Nectarine)
  - 10.3.25 Pear

- 10.3.26 Plum (Prunes)
- 10.3.27 Pomegranate
- 10.3.28 Quince
- 10.3.29 Raspberry
- 10.3.30 Red Currant
- 10.3.31 Strawberry
- 10.4 Tropical Fruits
  - 10.4.1 Avocado
  - 10.4.2 Banana
  - 10.4.3 Cherimoya
  - 10.4.4 Coconut
  - 10.4.5 Guava
  - 10.4.6 Mango
  - 10.4.7 Papaya
  - 10.4.8 Pineapple (Ananas)
- 10.5 Dry Fruits
  - 10.5.1 Almond, Bitter
  - 10.5.2 Brazil Nut (Cream Nut, Butter Nut, Pura Nut, Shenut)
  - 10.5.3 Cashew Nut
  - 10.5.4 Chestnut
  - 10.5.5 Hazelnut (Cobnuts, Filbert)
  - 10.5.6 Macadamia (Queensland Nut)
  - 10.5.7 Peanut
  - 10.5.8 Pecan
  - 10.5.9 Pistachio
  - 10.5.10 Walnut
- 10.6 Naturally Sweet Products
  - 10.6.1 Honey
  - 10.6.2 Licorice
  - 10.6.3 Maple
  - 10.6.4 Vanilla Beans
  - 10.6.5 Woodruff
- 10.7 Daily Beverages
  - 10.7.1 Cocoa-Chocolate
  - 10.7.2 Coffee
  - 10.7.3 Kola
  - 10.7.4 Tea
  - 10.7.5 Alcoholic Beverages
    - 10.7.6 Beer
    - 10.7.7 Bitters
    - 10.7.8 Cognac
    - 10.7.9 Fermented Drinks
    - 10.7.10 Fortified Beverages
    - 10.7.11 Light or Still
    - 10.7.12 Rum
    - 10.7.13 Sparkling Wines
    - 10.7.14 Vermouth
    - 10.7.15 Whiskey
- 10.8 Dairy Products
  - 10.8.1 Butter
  - 10.8.2 Cheese
  - 10.8.3 Milk

- 10.8.4 Yogurt
- 10.9 Culinary Additives
  - 10.9.1 Capsicum
  - 10.9.2 Cucumber
  - 10.9.3 Garlic
  - 10.9.4 Hickory
  - 10.9.5 Mustard
  - 10.9.6 Onion
  - 10.9.7 Paprika
  - 10.9.8 Saffron
  - 10.9.9 Smoke
  - 10.9.10 Tarragon
  - 10.9.11 Tomato
  - 10.9.12 Turmeric

## 11. AROMATIC CHEMICALS USED IN FLAVOUR COMPOUNDING

- 11.1 Aldehyde C-18
- 11.2 Anethole
- 11.3 Anisaldehyde
- 11.4 Benzaldehyde
- 11.5 Benzyl Butyrate
- 11.6 Bourbonal
- 11.7 Carvone
- 11.8 Cinnamic Aldehyde
- 11.9 Cinnamyl Alcohol
- 11.10 Cinnamyl Butyrate
- 11.11 Cinnamyl Propionate
- 11.12 Citral
- 11.13 Citronellol
- 11.14 Coumarin
- 11.15 Cumic Aldehyde
- 11.16 Decyl Acetate
- 11.17 n-Decyl Alcohol
- 11.18 n-Decyl Aldehyde
- 11.19 Dodecyl Aldehyde
- 11.20 Ethyl Acetate
- 11.21 Ethyl Acetoacetate
- 11.22 Ethyl Benzoate
- 11.23 Ethyl Butyrate
- 11.24 Ethyl Malonate
- 11.25 Ethyl Myristate
- 11.26 Ethyl Oenanthate
- 11.27 Ethyl Pelargonate
- 11.28 Ethyl Propionate
- 11.29 Ethyl Sebacate
- 11.30 Ethyl Valerate
- 11.31 Eugenol
- 11.32 Geraniol
- 11.33 Geranyl Acetate
- 11.34 Geranyl n-Butyrate
- 11.35 Heliotropin
- 11.36 Heptylic Aldehyde
- 11.37 Hydrocinnamic Aldehyde
- 11.38 Hydroxycitronellal

11.39 Ionone  
11.40 Irone  
11.41 Isoamyl Acetate  
11.42 Isoamyl Butyrate  
11.43 Isoamyl Valerate  
11.44 Isobutyl Acetate  
11.45 Isobutyl Butyrate  
11.46 Isoeugenol  
11.47 Linalool  
11.48 Linalyl Acetate  
11.49 Linalyl Butyrate  
11.50 Menthol  
11.51 Methyl Anthranilate  
11.52 Methyl m-Anthranilate  
11.53 Methyl Eugenol  
11.54 Methyl Heptyne Carbonate  
11.55 Methyl Isoeugenol  
11.56 Methylnonyl Acetaldehyde  
11.57 Methyl Phenyl Acetate  
11.58 Methyl Phenyl Glycidate  
11.59 ?-Naphthol Isobutyl  
11.60 ?-Naphthyl Ethyl Ether  
11.61 Nerol  
11.62 n-Nonyl Alcohol  
11.63 Nonyl Aldehyde  
11.64 Octyl Acetate  
11.65 n-Octyl Alcohol  
11.66 n-Octyl Aldehyde  
11.67 Octyl Butyrate  
11.68 Phenyl Ethyl Acetate  
11.69 Phenyl Ethyl Alcohol  
11.70 Phenyl Ethyl Propionate  
11.71 Rhodinol  
11.72 Rhodinyll Acetate  
11.73 Rhodinyll Butyrate  
11.74 ?-Terpineol  
11.75 Terpinyl Propionate  
11.76 p-Toluyll Aldehyde  
11.77 n-?-Undelactone  
11.78 Undecylenic Aldehyde  
11.79 Vanillin

## 12. COLORANTS FOR FLAVOURS AND PERFUMES NATURAL COLORS

12.1 Alkanet  
12.2 Annatto  
12.3 ?-Apo-8' -Carotenal  
12.4 Beet  
12.5 Buckthorn  
12.6 Campeachy  
12.7 Canthaxanthin  
12.8 Caramel  
12.9 Catechu  
12.10 Chlorophyll

12.11 Cochineal  
12.12 Cud Bear  
12.13 Curcuma  
12.14 Erythrosine  
12.15 Guanine  
12.16 Huckleberry  
12.17 Indigotin  
12.18 Kino  
12.19 Mallow Flowers  
12.20 Paprika  
12.21 Pernambuco  
12.22 Pokeberry  
12.23 Safflower  
12.24 Saffron  
12.25 Sandalwood  
12.26 Tartrazine  
12.27 Titanium Dioxide  
12.28 Turmeric  
12.29 Ultramarine  
12.30 Yellowwood  
12.31 Zinc Oxide  
12.32 Colors of Common Flavors and Perfumes

### 13. STABILIZERS

13.1 Agar-Agar  
13.2 Arabic Gum  
13.3 Bean Gums, Locust  
13.4 Carrageen  
13.5 Guar Gum  
13.6 Karaya Gum  
13.7 Pectin  
13.8 Tragacanth Gum

### 14. FORMULATION OF PERFUMES

- Acacia
- Acetic Acid, Tincture
- Alpestrine, Perfume
- Amber, Base
- Amber, Concrete (Fixative)
- Amber, Liquid (Chypre Basis)
- Ambergris, Perfume Imitation No. 1
- Ambergris, Perfume Imitation No. 2
- Ambergris, Tincture
- Bergammonia, Disinfectant
- Bergamot, Essence (Natural) No. 1
- Bergamot, Essence (Natural) No. 2
- Bouquet, No. 1 (for Soap)
- Bouquet, No. 2 (for Soap)
- Bouvardia
- Calamus, Imitation No. 1
- Calamus, Imitation No. 2
- Camphor, Tincture
- Cananga (for Soap)
- Capsicum
- Carnation, Imitation No. 1

- Carnation, Imitation No. 2
- Carnation (for Soap)
- Carnation, Pink (Perfume)
- Castor, Tincture No. 1
- Castor, Tincture No. 2
- Cedrela, "Wood Type"
- Citronella (for Soap)
- Coconut, Extract (Natural)
- Coconut, Paste
- Cologne
- Color Base Standard Formula No. 1
- Color Base Standard Formula No. 2
- Color Mixture
- Colors (Natural Dyes)
- Cover Odor, Perfume No. 1
- Cover Odor, Perfume No. 2
- Cover Odor, Perfume No. 3
- Cyclamen, Base (Synthetic)
- Cyclamen (for Soap)
- Deodorant for Cream
- Deodorant for Vessels
- Deodorant for Water
- Deodorants (Masking Agent)
- Deodorants (Masking Agent) For Heavy Odors
- Deodorants (Masking Agent) Grassy Odors
- Diacetyl, Tincture
- Eau De Cologne
- Eau De Cologne (for Soap)
- Eglantine (Wild Rose)
- Esters, General Base
- Fenugreek, Tincture
- Fern (for Soap)
- Floral Fragrance (for Soap)
- Floral, Imitation No. 1
- Floral, Imitation No. 2
- Fougère
- Fougere, Base (Fern)
- Frangipanni, Imitation No. 1 (Acutifolia, Alba, Rubra)
- Frangipanni, Imitation No. 2
- Frangipanni, Imitation No. 3
- Frangipanni, Imitation No. 4
- Freshener, Perfume
- Gardenia, Base
- Geranium
- Geranium, Imitation (for Soap)
- Geranium, Synthetic
- Gingergrass (for Soap)
- GiroflÉ, Imitation No. 1
- GiroflÉ, Imitation No. 2
- Halo, Sea Salt Odor
- Hawthorn
- Hawthorn (for Soap)
- Heliotrope (for Soap)

- Herbal Base, “Gold Water”
- HIP, Extract (Natural)
- HIP, Imitation No. 1
- Honey, Synthetic (for Perfume)
- Honeysuckle
- Hyacinth
- Ionone
- Iris
- Iris, Synthetic
- Jasmine (for Brilliantine)
- Jasmine “Grandiflora”
- Jasmine, Imitation No. 1
- Jasmine, Imitation No. 2
- Jasmine, Imitation No. 3 (For Soap)
- Jasmine, Infusion
- Jasmine, Synthetic No. 1
- Jasmine, Synthetic No. 2
- Jasmine, Synthetic No. 3
- Jasmine, Synthetic No. 4
- Jasmine, Synthetic No. 5
- Jasmine, Synthetic No. 6
- Jonquil (Daffodil), Imitation
- Jonquil (Daffodil), Synthetic
- Lavender, Essence (Natural)
- Lavender, Imitation No. 1
- Lavender, Imitation No. 2
- Lavender, Imitation No. 3
- Lavender, Imitation No. 4
- Lavender, Imitation No. 5
- Lavender, Imitation No. 6
- Lavender, Imitation No. 7
- Lavender, Imitation No. 8
- Lavender, Imitation No. 9
- Lavender, Imitation No. 10
- Lavender, Imitation No. 11
- Lavender, Imitation No. 12 (for Soap)
- Lavender, Sweet
- Leather
- Lilac, Imitation No. 1
- Lilac, Imitation No. 2
- Lilac, Imitation No. 3
- Lilac, Imitation No. 4
- Lilac, Imitation No. 5
- Lilac, Imitation No. 6
- Lilac, Imitation No. 7
- Lilac, Imitation No. 8
- Lilac, Imitation No. 9 (for Soap)
- Lilac, Synthetic No. 1 (for Soap)
- Lilac, Synthetic No. 2 (for Soap)
- Lily, Base
- Magnolia
- Mignonette (Reseda)
- Mimosa, Imitation

- Mimosa, Synthetic
- Moss
- Muguet (Lily of the Valley), Imitation No. 1
- Muguet (Lily of the Valley), Imitation No. 2
- Muguet (Lily of the Valley), Imitation No. 3 (for Soap)
- Muguet (Lily of the Valley), Synthetic No. 1
- Muguet (Lily of the Valley), Synthetic No. 2
- Musk
- Musk, Imitation No. 1 (for Powder)
- Musk, Imitation No. 2 (for Soap)
- Narcissus, Imitation No. 1 (for Powder)
- Narcissus, Imitation No. 2 (for Cologne)
- Narcissus, Imitation No. 3 (for Cologne)
- Narcissus, Imitation No. 4 "Poeticus" (For Cologne)
- Narcissus, Imitation No. 5 (for Soap)
- Narcissus, Synthetic No. 1
- Narcissus, Synthetic No. 2
- Narcissus, Synthetic No. 3
- Narcissus, Synthetic No. 4
- Neroli, Imitation No. 1
- Neroli, Imitation No. 2
- Neroli, Imitation No. 3
- Neroli, Imitation No. 4 (for Soap)
- Nerolin
- Neutroleum, Deodorizing Perfume
- New Mown Hay (Foin Coupé), Imitation No. 1
- New Mown Hay (Fon Coupe), Imitation No. 2
- New Mown Hay (Foin Coupe), Imitation No. 3
- Opoponax, Imitation No. 1
- Opoponax, Imitation No. 2
- Opoponax, Imitation No. 3
- Opoponax, Imitation No. 4 (for Soap)
- Orange Blossom, Bouquet (for Soap)
- Orange Flower, Imitation No. 1
- Orange Flower, Imitation No. 2
- Orange Flower, Imitation No. 3
- Orange Flower, Synthetic No. 4
- Orchid, Imitation
- Orris Root, Extract (Natural)
- Orris Root, Florentine
- Orris Root, Synthetic
- Pathouli, Imitation No. 1 (for Soap)
- Pathouli, Imitation No. 2 (for Toilet Powder)
- Pine, Bouquet (for Soap)
- Pine, Imitation No. 1
- Pine, Imitation No. 2
- Pine Needle
- Pine Needle, Siberian, Imitation No. 1
- Pine Needle, Siberian, Imitation No. 2
- Pine Needle, Siberian, Imitation No. 3
- Rose, Bulgarian Type
- Rose, for Cream
- Rose, for Face Powder No. 1

- Rose, for Face Powder No. 2
- Rose, Imitation No. 1
- Rose, Imitation No. 2
- Rose, Imitation No. 3
- Rose, Imitation No. 4
- Rose, Imitation No. 5 (For Cosmetic Cream)
- Rose, Imitation No. 6 (for Soap)
- Rose, Imitation No. 7
- Rose, Imitation No. 8
- Rose, Imitation No. 9 (for Perfume)
- Rose, Imitation No. 10
- Rose, Imitation No. 11
- Rose, Imitation No. 12
- Rose, Imitation, No. 13
- Rose, Imitation No. 14
- Rose, Imitation No. 15
- Rose, Imitation No. 16
- Rose, Imitation No. 17
- Rose, Imitation No. 18
- Rose, Imitation No. 19
- Rose, Imitation No. 20
- Rose Macedone
- Rose, Moss
- Rose, Oil, Synthetic
- Rose, Oriental
- Rose Otto
- Rose, Synthetic No. 1 (General Base for Rose Odor)
- Rose, Synthetic No. 2
- Rose, Synthetic No. 3
- Rose, Synthetic No. 4 (Milk-Like Compound)
- Rose, White
- Sandalwood "Santal," (for Soap)
- Sassafras, For Soap No. 1
- Sassafras, For Soap No. 2
- Sebacic Acid, Stabilizer for Perfume
- Soap, Perfume No. 1
- Soap, Perfume No. 2
- Soap, Perfume No. 3
- Soap, Perfume No. 4
- Soap, Perfume No. 5
- Sweet Pea, Blossom
- Syringa, Imitation No. 1
- Syringa, Imitation No. 2
- Tobacco for Snuff
- Tobacco Perfumes, General Basic Material No. 1
- Tobacco Perfumes, General Basic Material No. 2
- Tobacco, Strong Odor
- Theflé (Clover, Trefoil) (for Soap)
- Tuberose, Imitation (for Soap)
- Tuberose, Synthetic
- Uny Cologne, Perfume Base
- Vaporous Perfume, Imitation No. 1
- Vaporous Perfume, Imitation No. 2

- Vaporous Perfume, Imitation No. 3
- Violet, For Face Powder
- Violet, Imitation No. 1
- Violet, Imitation No. 2
- Violet, Imitation No. 3
- Violet, Imitation No. 4 (for Soap)
- Violet, Imitation No. 5 (for Soap)
- Violet, Imitation No. 6
- Violet Leaf
- Violet, Synthetic
- Wall Flower
- Winter Green, Imitation (for Soap)
- Ylang Ylang, Imitation No. 1
- Ylang Ylang, Imitation No. 2
- Ylang Ylang, Imitation No. 3
- Ylang Ylang, Imitation No. 4
- Ylang Ylang, Imitation No. 5
- Ylang Ylang, Synthetic No. 1
- Ylang Ylang, Synthetic No. 2

#### 15. FORMULATIONS OF FLAVOURS 269

- General Method for the Extraction of Natural Flavors from Fresh or Dry Fruits
- “Neutral” Esters Mixture Base
- Abbey, Benedictine Type
- Absinthe
- Advocaat (Advokaat)
- Allspice, Oil
- Almond, Bitter
- Almond, Bitter Essence (Natural)
- Almond, Bitter (for Soap)
- Almond, Bitter Imitation
- Almond, Bitter Synthetic
- Almond, Imitation
- Almond, Milk (Orzata)
- Almond, Peach
- Angelic, Tincture
- Angostura, Bitter
- Anise Base
- Apple, Base
- Apple, Essence (Natural) No. 1
- Apple, Essence (Natural) No. 2
- Apple, Essence (Natural) No. 3
- Apple, Essence (Natural) No. 4
- Apple, Essence (Natural) No. 5
- Apple, Imitation No. 1
- Apple, Imitation No. 2
- Apple, Imitation No. 3
- Apple, Imitation No. 4
- Apple, Synthetic No. 1
- Apple, Synthetic No. 2
- Apple, Synthetic No. 3
- Apple, Synthetic No. 4
- Apple, Synthetic No. 5
- Apple, Synthetic No. 6

- Apple, Synthetic No. 7
- Apple, Synthetic No. 8
- Apple, Synthetic No. 9
- Apple, Synthetic No. 10
- Apple, Synthetic No. 11
- Apricot, Imitation No. 1
- Apricot, Imitation No. 2
- Apricot, Imitation No. 3
- Apricot, Imitation No. 4
- Apricot, Imitation No. 5
- Apricot, Synthetic No. 1
- Apricot, Synthetic No. 2
- Apricot, Synthetic No. 3
- Apricot, Synthetic No. 4
- Apricot, Synthetic No. 5
- Aubepine (Hawthorn)
- Avocado
- Banana, Essence (Natural)
- Banana, Imitation No. 1
- Banana, Imitation No. 2
- Banana, Imitation No. 3
- Banana, Synthetic No. 4
- Barbecue
- Barbecue Sauce, “Hunt” Type
- Barberry, Essence (Natural)
- Benedictine No. 1
- Benedictine No. 2
- Bergamot, Flavor
- Bilberry, Essence (Natural) No. 1
- Bilberry, Essence (Natural) No. 2, Red
- Bilberry, Essence (Natural) No. 3 Scandinavian Type
- Bilberry, Imitation No. 1
- Bilberry, Imitation No. 2
- Bilberry, Imitation No. 3
- Bitter No. 1, “Unicum”
- Bitter No. 2, “Spanish”
- Bitter No. 3, “Stomach”
- Blackberry, Essence (Natural)
- Blackberry, Imitation No. 1
- Blackberry, Imitation No. 2
- Blackberry, Imitation No. 3
- Black Currant, Synthetic
- Black Pepper, Imitation No. 1
- Black Pepper, Imitation No. 2
- Blueberry, Essence (Natural)
- Brandy (Cognac) No. 1
- Brandy (Cognac) No. 2
- Bread, Fresh Roasted Flavor
- Butter, Flavor, Imitation No. 1
- Butter, Flavor, Imitation No. 2
- Butter, Flavor, Imitation No. 3
- Butter, Flavor, Imitation No. 4
- Butter, Flavor, Imitation No. 5

- Butterscotch, Imitation No. 1
- Butterscotch, Imitation No. 2
- Butterscotch, Imitation No. 3
- Butterscotch, Imitation No. 4
- Butterscoth, Imitation No. 5
- Buttescotch, Imitation No. 6
- Cacao, Extract (Natural) No. 1, Colorless
- Cacao, Extract (Natural) No. 2, Brown
- Cacao, Imitation
- Cacao, Synthetic
- Cake, Flavor No. 1
- Cake, Flavor No. 2
- Caper, Extract (Natural)
- Capsicum, Extract (Natural)
- Caramel, Flavor No. 1
- Caramel, Flavor No. 2
- Caraway, Imitation No. 1
- Caraway, Imitation No. 2
- Caraway, Imitation No. 3
- Caraway, Imitation No. 4
- Caraway, Imitation No. 5
- Cardamom, Imitation No. 1
- Cardamom, Imitation No. 2
- Carnation, Flavor
- Carrot, Extract (Natural)
- Cascarilla, Tincture
- Cashew, Extract (Natural)
- Cassia, Imitation No. 1
- Cassia, Imitation No. 2
- Cassia, Imitation No. 3
- Cassia, Imitation No. 4
- Champagne, Cedar, Imitation
- Champagne, Flavor
- Chartreuse
- Chartreuse (Liqueur) No. 1
- Chartreuse (Liqueur) No. 2
- Cheese, Blue, Synthetic No. 1
- Cheese, Blue, Synthetic No. 2
- Cheese "Roquefort" Type
- Cheese, Synthetic
- Cherimoya, Synthetic
- Cherry "Black", Essence (Natural)
- Cherry Blossom, No. 1
- Cherry Blossom No. 2
- Cherry Brandy, No. 1
- Cherry Brandy, No. 2
- Cherry Brandy, Synthetic
- Cherry, Imitation No. 1
- Cherry, Imitation No. 2
- Cherry, Imitation No. 3
- Cherry, Imitation No. 4
- Cherry, Imitation No. 5
- Cherry, Imitation No. 6

- Cherry, Imitation No. 7
- Cherry, Imitation No. 8
- Cherry, Imitation No. 9
- Cherry “Red” Essence (Natural) “Agriot”
- Cherry, Synthetic No. 1
- Cherry, Synthetic No. 2
- Cherry, Synthetic No. 3
- Cherry, Synthetic No. 4
- Cherry, Synthetic No. 5
- Cherry, Synthetic No. 6
- Cherry, Synthetic No. 7
- Cherry, Synthetic No. 8
- Chocolate, Flavor (Natural)
- Chocolate, Flavor, Synthetic
- Chocolate, Hardener
- Chypre, Base for Bouquet
- Cinnamon, Imitation
- Citrus Fruits, Extract from Peels
- Clove
- Coca, Flavor
- Cocoa, Essence (Natural)
- Coffee, Extract (Natural) No. 1, Brown
- Coffee, Extract (Natural) No. 2, Colorless
- Coffee, Extract (Natural) No. 3 Brown
- Coffee, Extract (Natural) No. 4, Colorless
- Coffee, Imitation No. 1
- Coffee, Imitation No. 2
- Cognac, Imitation No. 1
- Cognac, Imitation No. 2
- Cognac, Imitation No. 3
- Cola, Tincture
- Coriander, Imitation No. 1
- Coriander, Imitation No. 2
- Cranberry
- Cranberry, Synthetic
- Cream Paste
- Crystal Beverages
- Cucumber, Extract (Natural)
- Cucumber “Milk” (for Cosmetics)
- Culinary, Extract (Natural)
- CuraÇao, Imitation No. 1, Liquor Base
- CuraÇao, Imitation No. 2
- Currant, Extract (Natural) No. 1
- Currant, Extract (Natural) No. 2
- Currant, Imitation No. 1
- Currant, Imitation No. 2
- Currant, Imitation No. 3
- Currant, Imitation No. 4
- Currant, Imitation No. 5
- Currant, Imitation No. 6
- Currant, Synthetic No. 1
- Currant, Synthetic No. 2
- Currant, Synthetic No. 3

- Currant, Synthetic No 4
- Current, Synthetic No. 5
- Currant, Synthetic No. 6
- Date, Extract (Natural)
- Date, Imitation No. 1
- Date, Imitation No. 2
- Date, Synthetic
- Fernet “Branca” Essence
- Fig, Essence (Natural)
- Fish, Odor (Natural)
- Fondant—Orgeat—Praline
- Fortified Extracts from Vegetables
- Fruit Extract, Natural Flavor
- Fruit Soda
- Fungi Extract (Natural)
- Garlic, Extract (Natural)
- Gin, Imitation
- Ginger, Essence (Natural)
- Ginger, Extract (Natural), “Gingerine”
- Ginger, Imitation No. 1
- Ginger, Imitation No. 2
- Ginger, Imitation No. 3
- Ginger, Imitation No. 4
- Ginger, Imitation No. 5
- Gingergrass (Palmarosa)
- GiroflÉ (Clove), Tincture
- Glace Cake Mix
- Gooseberry, Extract (Natural)
- Grape, Extract (Natural)
- Grape, Imitation No. 1
- Grape, Imitation No. 2
- Grape, Synthetic No. 1
- Grape, Synthetic No. 2
- Grape, Synthetic No. 3
- Grape, Synthetic No. 4
- Grape, Synthetic No. 5
- Grape, Synthetic No. 6
- Grape, Synthetic No. 7
- Green Gage, Imitation
- Grenadine
- Guava, Extract (Natural)
- Ham, Baked “Glaze”
- Hazelnut, Extract (Natural)
- Herbal Cream (Celery or any other Herb)
- Honey, Imitation No. 1
- Honey, Imitation No. 2
- Honey, Synthetic No. 1
- Honey, Synthetic No. 2 (for Perfumes)
- Honey, Synthetic No. 3 (for Perfumes)
- Honey, Synthetic No. 4
- Honey, Synthetic No. 5
- Hop, Extract (Natural)
- Hop, Synthetic No. 1

- Hop, Synthetic No. 2
- Huckleberry, Synthetic No. 1
- Huckleberry, Synthetic No. 2
- Juices, General
- Kernel (Nut), General
- Ketchup (Catsup), Mushroom Flavor
- Ketchup (catsup), Spice
- Ketchup (Catsup), tomato Flavor
- Kummel
- Lavender, Flavor
- Lemon, Extract (Natural)
- Lemon, Imitation No. 1
- Lemon, Imitation No. 2
- Lemon, Imitation No. 3
- Lemon, Imitation No. 4
- Lemon, Imitation No 5
- Lemon, Imitation No. 6
- Lemon, Imitation No. 7
- Lemon, Imitation No. 8
- Lemon, Imitation No. 9
- Lemon, Imitation No. 10
- Lemon, Imitation No. 11
- Lemon, Powdered (Concentrate)
- Licorice, Root, Extract (Natural)
- Lime, Extract (Natural)
- Lime, Imitation
- Lime, Synthetic No. 1
- Lime, Synthetic No. 2
- Lime, Synthetic No. 3
- Lime, Synthetic No. 4
- Lime, Synthetic No. 5
- Malt, Extract (Natural)
- Malt, Imitation No. 1
- Malt, Imitation No. 2
- Mandarin, Imitation No. 1
- Mandarin, Synthetic No. 1
- Mango, Extract (Natural)
- Mango, Imitation
- Maple
- Maple, Flavor
- Maple, Syrup
- Maraschino, Imitation No. 1
- Maraschino, imitation No. 2
- Maraschino, imitation No. 3
- Maraschino, imitation No. 4
- Marshmallow
- Melon, Synthetic No. 1
- Melon, Synthetic No. 2
- Melon, Synthetic No. 3
- Melon, Synthetic No. 4
- Melon, Synthetic No. 5
- Mentha, Cream
- Milk, Caramel

- Mint
- Mirabelle
- Mirabelle (Plum), Extract (Natural)
- Mirabelle (Plum), Imitation
- Mirabelle (Plum), Synthetic
- Mulberry Synthetic No. 1
- Mulberry, Synthetic No. 2
- Mulberry, Synthetic No. 3
- Mushroom, Imitation No. 1
- Mushroom, Imitation No. 2
- Nectarine
- Noisettee
- Nuts, Flavor for Pastry
- Nuts, Kernels (General Method of Flavor Extraction)
- Onion
- Onion, Extract (Natural)
- Onion, Imitation
- Orange, Extract (Natural)
- For Orange Bitter Type
- For Sweet Orange Type
- Orange, Imitation No. 1
- Orange, Imitation No. 2
- Orange, Imitation No. 3
- Orange, Imitation No. 4
- Orange, Imitation No. 5
- Orange, Imitation No. 6
- Orange, Imitation No. 7
- Orange, Imitation No. 8
- Orange, Synthetic No. 1
- Orange, Synthetic No. 2
- Oregano, Type
- Peach, Extract (Natural)
- Peach, Imitation No. 1
- Peach, Imitation No. 2
- Peach, Imitation No. 3
- Peach, Synthetic No. 1
- Peach, Synthetic No. 2
- Peach, Synthetic No. 3
- Pear, Extract (Natural)
- Pear, Imitation No. 1
- Pear, Imitation No. 2
- Pear, Imitation No. 3
- Pear, Synthetic No. 1
- Pear, Synthetic No. 2
- Pear, Synthetic No. 3
- Pear, Synthetic No. 4
- Pea, Sweet, Imitation No. 1
- Pea, Sweet, Imitation No. 2
- Pea, Sweet, Imitation No. 3
- Pea, Sweet, Synthetic No. 1
- Pea, Sweet, Synthetic No. 2
- Peppermint, Imitation No. 1
- Peppermint, Imitation No. 2

- “Persicot,” (Peach Kernel Imitation)
- Pickle Spice Salts
- Pineapple (Ananas) Extract (Natural) No. 1
- Pineapple Peels
- Pineapple, (Ananas) Extract (Natural) No. 2
- Pineapple (Ananas), Imitation No. 1
- Pineapple (Ananas), Imitation No. 2
- Pineapple (Ananas), Imitation No. 3
- Pineapple (Ananas), Imitation No. 4
- Pineapple (Ananas), Synthetic No. 1
- Pineapple (Ananas), Synthetic No. 2
- Pineapple (Ananas), Synthetic No. 3
- Pineapple (Ananas), Synthetic No. 4
- Pineapple (Ananas), Synthetic No. 5
- Pistachio Nut, Imitation No. 1
- Pistachio Nut, Imitation No. 2
- Pistachio Nut, Imitation No. 3
- Pistachio Nut, Imitation No. 4
- Plum, Extract (Natural)
- Plum, Imitation No. 1
- Plum, Imitation No. 2
- Plum, Imitation No. 3
- Plum, Imitation No. 4
- Plum, Imitation No. 5
- Plum, Synthetic
- Pomegranate (Grenadine), Imitation No. 1
- Pomegranate (Grenadine), Imitation No. 2
- Pomegranate (Grenadine), Imitation No. 3
- Pomegranate (Grenadine), Imitation No. 4
- Pomegranate (Grenadine), Imitation No. 5
- Pomegranate (Grenadine), Imitation No. 6
- Pomegranate (Grenadine), Imitation No. 7
- Pomegranate (Grenadine), Imitation No. 8
- Pomegranate (Grenadine), Synthetic
- Potato, Flavor
- Pound Cake, Flavor
- Powdered Flavors
- Praline Flavor (Crystals)
- Proteinic Basic Flavor
- Prunelle, Extract (Natural)
- Quince, Extract (Natural)
- Quince, Imitation
- Quince, Synthetic No. 1
- Quince, Synthetic No. 2
- Quince, Synthetic No. 3
- Raisin, Synthetic
- Raspberry, Extract (Natural) No. 1
- Raspberry, Extract (Natural) No. 2
- Raspberry, Extract (Natural) No. 3
- Raspberry, Imitation No. 1
- Raspberry, Imitation No. 2
- Raspberry, Imitation No. 3
- Raspberry, Imitation No. 4

- Raspberry, Imitation No. 5
- Raspberry, Imitation No. 6
- Raspberry, Synthetic No. 1
- Raspberry, Synthetic No. 2
- Raspberry, Synthetic No. 3
- Raspberry, Synthetic No. 4
- Raspberry, Synthetic No. 5
- Raspberry, Synthetic No. 6
- Raspberry, Synthetic No. 7
- Raspberry, Synthetic No. 8
- Rosemary, Chili
- Rum, Ether Flavor
- Rum, Imitation No. 1
- Rum, Imitation No. 2
- Rum, Oil
- Rum, Synthetic No. 1
- Rum, Synthetic No. 2
- Rum, Synthetic No. 3
- Saint John's Bread (Carob), Tincture
- Sarsaparilla, Imitation No. 1
- Sarsaparilla, Imitation No. 2
- Sassafras, Imitation No. 1
- Sassafras, Imitation No. 2
- Sassafras, Imitation No. 3
- Sassafras, Imitation No. 4
- Sassafras, Synthetic No. 1
- Sassafras, Synthetic No. 2
- Sauce Flavors
- Sauce, Flavor Base
- Sauce, Soy Flavor
- Savory, Oil No. 1
- Savory, Oil No. 2
- Scotch, Smoke Type Taste
- Smoke, Flavor
- Smoke, Flavor for Fish (Seasoning)
- Smoke, Flavor for Meat
- Spearmint-Wintergreen-Peppermint No. 1
- Spearmint-Wintergreen-Peppermint No. 2
- Spice, Imitation No. 1
- Spice, Imitation No. 2
- Strawberry, Extract (Natural) No. 1
- Strawberry, Extract (Natural) No. 2
- Strawberry, Imitation No. 1
- Strawberry, Imitation No. 2
- Strawberry, Imitation No. 3
- Strawberry, Imitation No. 4
- Strawberry, Imitation No. 5
- Strawberry, Imitation No. 6
- Strawberry, Imitation No. 7
- Strawberry, Imitation No. 8
- Strawberry, Imitation No. 9
- Strawberry, Imitation No. 10
- Strawberry, Imitation No. 11

- Strawberry, Synthetic No. 1
- Strawberry, Synthetic No. 2
- Strawberry, Synthetic No. 3
- Strawberry, Synthetic No. 4
- Strawberry, Synthetic No. 5 “General Base”
- Strawberry, Synthetic No. 6
- Strawberry, Synthetic No. 7
- Strawberry, Synthetic No. 8
- Syrup, Base for Flavor (Pancake)
- Syrup, Simple, Base for Flavor
- Tamarind, Extract (Natural)
- Tangerine, Extract (Natural)
- Tangerine, Imitation No. 1
- Tea, Natural No. 1
- Tea, Natural No. 2
- Tea, Natural No. 3
- Tobacco formulas for improving flavor and odor
- Tobacco, Chewing, Flavor No. 1
- Tobacco, Chewing, Flavor No. 2
- Tobacco, Cigarette, Flavor No. 1
- Vanilla Beans, Imitation
- Vanilla Beans, Tincture No. 1
- Vanilla Beans, Tincture No. 2
- Vanillin, Crystal (Partial)
- Vanillin, Flavored Mixture
- Vanillin No. 1
- Vanillin No. 2 (Ester Mixture)
- Vanillin, Super Odor
- Vanillin, Water Soluble
- Vermouth
- Vermouth, Italian Type No. 1
- Vermouth, Italian Type No. 2
- Vinegar, Spiced
- Violet, Flavor
- Walnut, Extract (Natural)
- Walnut, Flavor for Ketchup
- Walnut, Imitation No. 1
- Walnut, Imitation No. 2
- Walnut, Imitation No. 3
- Walnut, Imitation No. 4

16. BIS SPECIFICATIONS 435

17. ISO STANDARDS 441

18. FACTORY LAYOUT AND PROCESS FLOW CHART & DIAGRAMS 442

19. PHOTOGRAPHS OF PLANT & MACHINERY WITH SUPPLIER'S  
CONTACT DETAILS 466

- Electrical Perfume Making Machine
- Perfume Mixing Tank
- Automatic Perfume Filling Machine
- Automatic Perfume Making Mixer
- Filling Machine
- Perfume Extraction Equipment
- Aerosol Filling Machine
- Aerosol Can Crimping Machine

## 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.

---

**NIIR PROJECT CONSULTANCY SERVICES**, 106-E, Kamla Nagar, New Delhi-110007, India.  
**Email:** [npcs.india@gmail.com](mailto:npcs.india@gmail.com) **Website:** [NIIR.org](http://NIIR.org)

Fri, 09 May 2025 05:47:00 +0000