

# The Complete Technology Book on Herbal Perfumes and Cosmetics (2nd Revised Edition)

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Herbal perfumes and cosmetics have been into usage from time immemorial and are made using natural herbs and ingredients that are healthier and beneficial for the skin. These are less likely to cause any damaging effect and the radiance they add to the skin. These days a number of beauty products that are using the herbal formulae have got lot of attention and have been witnessing a huge rise in demand not only nationally but on international arena. Bath and beauty products use herbs for both their scents and therapeutic qualities. Herbal products are replacing the synthetics products because of its harsh nature.

To exploit the knowledge that has got the genesis in our country the book aims to provide recourse of pragmatic formulae of diversified herbal perfumes and cosmetics. Over all, the book contains formulae, processes, technicalities which are immensely innovative and profoundly utilitarian for new entrepreneur as well as motivate the existing units in quality improvement and cost reduction.

The major contents of the book are creation of herbal perfumes, blending of fragrances, principle of manufacture, infrared spectra of pure herbal products, application of herbal products in body care, facial care, hair care, list of raw materials used for the creation of perfumery, manufacturing procedures for the preparation of toilet products, formulas of different types of perfumery, list of perfumes and cosmetics, photographs and details of machineries, toiletries manufactures and machinery suppliers in directory section.

The book is highly recommended to new entrepreneurs, existing units who wants to diversify from synthetic to herbal products, research centers, professionals and libraries.

## 1. Introduction of Perfumery

Terminology

Scientific and Medical Aspects

Perfumes and the skin

Technological Aspects

How Does Perfume Appeal?

Choosing a Perfume

An International Industry

## 2. History of Fragrance

The Ancient World

Orientalia

The Middle Ages

Influence of the Spice Trade

The Americas

Scents and "Sophistication"

The Modern World

### 3. The Sense of Smell

How the Brain Processes Odour

Essential Oil Absorption through the Skin

Fragrance and Health

Olfactory Deprivation

Odour and Eros

### 4. Scent and Psyche

Further Therapeutic Applications

Anxiety And Stress

Stimulation

Scent and Soul

### 5. Classification of Odours and Odorants

### 6. Creating a Herbal Perfume

Working within a Framework

Price

Packaging

Inspiration

The Practical Foundation

Inspiration : Response to Stimuli

Trial and error

Colours

Jeancard on Composition

Limitations of Published Formulae

The Perfumer's Knowledge of Chemistry

The Method of Carles

Analysing the Properties of Odours

Tone

Volatility

Intensity

Volume

Atmosphere

Tenacity

Fixation

Systematic Recording of Data

### 7. Raw Materials: Products of Natural Origin

Introduction : Concretes, Absolutes

Concrete Oils

Absolute Oils

Essential Oils derived from Distillation

Essential Oils obtained by Expression

Isolates, etc. from Essential Oils

Natural Odorants as Tinctures

Balsams and Resins

Concrete Oils or 'Concretes'

Absolute Oils

Floral S/eries: Rose Notes

Absolute Oil of Rose de Grasse

Jasmin Notes

Hyacinth Notes  
Lilac and Lily  
Absolute Oil of Lilac  
Lily-of-the-Valley  
Orangeblossom Notes  
Orangeflower Absolute  
Absolute oil of Orangeflower Water  
Absolute Oil of Syringa  
Tuberose Notes  
Absolute oil of Tuberose  
Absolute oil of Narcissus  
Absolute oil of Jonquil  
Absolute oil of Champaca  
Absolute oil of Honeysuckle  
Absolute oil of Lily  
Violet Notes  
Absolute oil of Violet  
Absolute oil of Parma Violet  
Absolute oil of Violet Leaves  
Absolute oil of Boronia  
Absolute oil of Cassie  
Absolute oil of Mimosa  
Absolute oil of Iris  
Mignonette  
Woody Series: Sandal Notes  
Peppery Notes  
Absolute Oil of Thyme  
Caryophyllaceous Notes  
Absolute oil of Carnation  
Absolute oil of Cloves  
Absolute oil of Tobacco Flower  
Rural Series: Herbaceous Notes  
Absolute oil of Flouve  
New Mown Hay Absolute  
Absolute Oil of Lavender  
Absolute oil of Lavandin  
Tea Leaf Absolute  
Green Notes  
Oakmoss (Mousse de Chene)  
Absolute oil of Fern  
Absolute Oil of Ivy  
Absolute oil of Tree Moss (Mousse d'Arbre)  
Vetiver Absolute  
Balsamic Series: Resinous Notes  
Absolute Oil of Cypress  
Absolute Oil of Fir Needles  
Vanilla Notes  
Absolute Oil of Vanilla  
Absolute Oil of Heliotrope  
Fruity Series  
Absolute Oil of Fig Leaves  
Animal Series: Amber Notes  
Ambrette Seed Absolute

Angelica Absolute  
Cumin Absolute  
Labdanum Absolute  
Clary Sage Absolute  
Maritime Notes  
Seaweed Absolute  
Musk Notes  
Costus Absolute  
Empyreumatic Series: Tobacco Notes  
Mate (Vert) Absolute  
Melilot Absolute  
Tobacco Leaf Absolute  
Tonka Bean Absolute  
Essential Oils, Terpeneless Oils  
Agar  
Ajowan  
Almond Oil, Bitter  
Ambrette Seed  
Amyris  
Angelica (*Angelica archangelica*)  
Angelica  
Family  
Extraction  
Medicinal Action  
Emotional Attribute  
Anise (*Pimpinella anisum*)  
Family  
Extraction  
Medicinal Action  
Emotional Attribute  
Considerations  
Associated Oils  
Star Anise (*Illicium verum*)  
Araucaria  
Arnica  
Artemisia (Armoise)  
Atractylis  
Backhousia  
Basil (*Ocimum basilicum*)  
Family  
Extraction  
Medicinal Action  
Cosmetic/Skin Use  
Emotional Attribute  
Considerations  
Associated Oil  
Reunion Basil (*O. basilicum*)  
East Indian Basil (*O. gratissimum*)  
Hairy Basil (*O. canum*)  
Bay (*Laurus nobilis*)  
Family  
Extraction  
Medicinal Action

Emotional Attribute  
Associated Oil  
Bay Rum Tree (*Pimenta racemosa*)  
Allspice (*P. dioica*)  
Benzoin (*Styrax benzoin*)  
Family  
Extraction  
Medicinal Action  
Cosmetic/Skin Use  
Emotional Attribute  
Considerations  
Associated Oil  
Balsam of Tolu (*Myroxylon balsamum*)  
Balsam of Peru (*M. balsamum* var. *Pereirae*)  
Styrax (*Liquidambar orientalis*)  
Bergamot (*Citrus bergamia*)  
Family  
Extraction  
Medicinal Action  
Cosmetic/Skin Use  
Emotional Attribute  
Considerations  
Associated Oil  
Birch (*Betula lenta*)  
Family  
Extraction  
Medicinal Action  
Cosmetic/Skin Use  
Considerations  
Associated Oil  
Birch Tar Oil  
White Birch (*B. alba*)  
Wintergreen (*Gaultheria procumbens*)  
Bellary Leaf Oil  
Bois De Rose  
Buchu Leaf Oil. *Barosma betulina* (*Rutaceae*)  
Cabreuva. *Myrocarpus* spp.  
Cajuput (*Melaleuca cajuputi*) etc.  
(*Myrtaceae*). B.C. 3.  
Calamus (*Acorus calamus*) (*Aroideae*). B.C. 4c.  
Camomile  
Roman camomile (*Anthemis nobilis*)  
(*Compositae*). B.C. 3c.  
Camphor  
Cananga (*Cananga odourata*) (*Anonaceae*)  
Calendula (*Calendula officinalis*)  
Family  
Extraction  
Medicinal Action  
Cosmetic/Skin Use  
Associated Oil  
Marigold (*Tagetes minuta* and *T. patuh*)  
Caraway (*Carum cravi*)

Family  
Extraction  
Medicinal Action  
Cosmetic/Skin Use  
Emotional Attribute  
Considerations  
Cardamom (*Elettaria cardamomum*)

Family  
Extraction  
Medicinal Action  
Emotional Attribute  
Associated Oil

Carrot Seed (*Daucus carota*)

Family  
Extraction  
Medicinal Action  
Cosmetic/Skin Use  
Caulophyllum Inophyllum  
Cedarwood (*Cedrus* species)

Family  
Extraction  
Medicinal Action  
Cosmetic/Skin Use  
Emotional Attribute  
Considerations  
Associated Oil  
Moroccan Cedar (*C. Libani*)  
Atlas Cedar (*C. atlantica*)  
Tibetan Cedarwood (*C. deodara*)  
Thuja (*Thuja occidentalis*)  
Celery (*Apium graveolens*)

Family  
Extraction  
Medicinal Action  
Chamomile, German (*Matricaria recutita*,  
formerly *M. chamomilla*)  
Chamomile, Roman (*Chamaemelum nobile*,  
formerly *Anthemis nobilis*)  
Cinnamon (*Cinnamomum zeylanicum*)  
Clary Sage (*Salvia sclarea*)  
Clove Bud (*Syzygium aromaticum*, formerly  
*Eugenia caryophyllata*)  
Coriander (*Coriandrum sativum*)  
Cumin (*Cuminum cyminum*)  
Cypress (*Cupressus sempervirens*)  
Cassia  
Citronella  
Java-type citronella Oil  
Cognac Oil  
Copaiba Balsam Oil  
Costus  
Cubeb  
Davana

Dill (French: Aneth) (*Anethum graveolens*) (Umbelliferae)  
Elcampane (root) (*Inula helenium*) (Compositae). B.C. 1g.  
Elemi Oil  
Estragon  
Eucalyptus (*Eucalyptus globulus*)  
Fennel (*Foeniculum vulgare*)  
Fir (*Abies alba* and other species)  
Frankincense (*Boswellia carterii*) 1  
Galbanum (*Ferula galbaniflua*)  
Geranium (*Pelargonium graveolens*)  
Ginger (*Zingiber officinale*)  
Helichrysum (*Helichrysum angustifolium*)  
Hyssop (*Hyssopus officinalis*)  
Inula, Sweet (*Inula graveolens*, or *I. odourata*)  
Jasmine (*Jasminum officinale* and *J. grandiflorum*)  
Juniper (*Juniperus communis*)  
Labdanum (*Cistus labdaniferus*)  
Lavender (*Lavandula angustifolia*, previously *L. vera* and *L. officinale*)  
Lemon (*Citrus limon*)  
Lemongrass (*Cymbopogon citratus*)  
Lovage (*Levisticum officinale*)  
Marjoram (*Origanum marjorana* or *Marjorana hortensis*)  
Melissa (*Melissa officinalis*)  
Mimosa (*Acacia decurrens* var. *dealbata*)  
Myrrh (*Commiphora myrrha*)  
Myrtle (*Myrtus communis*)  
Oakmoss (*Evernia Prunastri*)  
Orange (*Citrus sinensis*)  
Orange Blossom (Neroli) (*Citrus aurantium* var. *amara*)  
Patchouli (*Pogostemon cablin*)  
Pepper, Black (*Piper nigrum*)  
Peppermint (*Mentha piperita*)  
Ravensare (*Ravensara aromatica*)  
Rose (*Rosa damascena*, *R. gallica*, and others)  
Rosemary (*Rosmarinus officinalis*)  
Rosewood (*Aniba rosaeodora*)  
Sage (*Salvia officinalis*)  
Sandalwood (*Santalum album*)  
Spikenard (*Nardostachys jatamansi*)  
Tea Tree (*Melaleuca alternifolia*)  
Thyme (*Thymus vulgaris*)  
Tuberose (*Polianthes tuberosa*)  
Vanilla (*Vanilla planifolia*)  
Vetiver (*Vetiveria zizanoides*)  
Violet (*Viola odourata*)  
Yarrow (*Achillea millefolium*)  
Ylang-Ylang (*Cananga odourata*)

Expressed Essential Oils  
Citron  
Grapefruit  
Lemon  
Lime  
Mandarin  
Oranges Bitter  
Orange, Sweet  
Tinctures, Resins, Balsams  
Tinctures  
Infusions  
Absolutes  
Balsams and Resins  
Benzoin  
Copaiba  
Galbanum  
Labdanum  
Myrrh and Frankincense  
Olibanum  
Opopanax  
Peru Balsam  
Styrax or Storax or Liquidambar  
Tolu Balsam

8. Natural Isolates and Reconstituted  
Essential Oils  
Reconstituted Essential Oils  
Natural Isolates  
Derivatives from Isolates  
Aldehydes  
Ketones  
Terpene Chemicals

9. The Rose Fragrance  
Historical Background  
Perfumery Value  
Rose Growing  
Nomenclature and Isolates  
Extraction Methods  
Adulteration  
Medicinal Properties of Rose  
Economics

10. Production Economics of Jasmine Concrete  
Present Position in India  
Scope of Jasmine Oil Industry in Tamil Nadu  
Economics

11. Fragrances through Kondakov Reaction  
of Terpenes

12. Fragrances Through Ozonisation of Terpenes



13. Carvenone

14. Infrared Spectra of Pure Herbal Fractions

15. Raw Materials: Products of Synthetic Origins

Roses Odorants

Jasmin Odorants

Orangeflower and Neroli Odorants

Muguet Odorants

Green Notes

Fruity Notes

Peach

Apricot

Plum

Mirabelle

Strawberry

Raspberry

Blackcurrant

Fig

Hazel

Bitter Almond

Aniseed

The Citrus Oils

Melon

Angelica oils

Woody Notes

Empyreumatic Notes

The Salicylates

Benzyl Salicylate

Isobutyl Salicylate

Methyl Salicylate

Ethyl Salicylate

Phenylethyl Salicylate

Animal Notes

Musks, Synthetic

Civet, Synthetic

Ambergris, Synthetic

Castoreum, Synthetic

Acetates

The Fatty Alcohols, Aldehydes and Acetals

Fatty Alcohols

Fatty Aldehydes

Pseudo-Aldehydes

Acetals

Anisates

Anthranilates

Benzoates

Butyrates

Caproates

Cinnamates

Formates

Phenylacetates

Propionates

Tiglates  
Valerates (Valerianates)

## 16. Principles of Manufacture

Pressing  
Maceration  
Digestion  
Infusion  
Absorption or Enfleurage Process  
Distillation  
Extraction by Volatile Solvents  
Ripening, Preservation, Etc.

## 17. Essential Extracts

Floral Oils  
Selection of Site  
Raw Materials  
Treatment of the Ingredients  
Manufacture by Maceration  
Concentrating the Preparations  
Hastening the Process  
Tier System  
Another Tire Arrangement  
Oil direct from the seeds  
Recipes  
Bela Oil  
Jasmine Oil  
Chameli Oil  
Champaka Oil  
Kantali Champaka Oil  
Jahuri Champaka Oil  
Dolan Champaka Oil  
Nageswar Champaka Oil  
Henna Oil  
Gul Henna Oil  
Musk Henna Oil  
Janti Oil  
Mallika Oil  
Tuberose Oil  
Rose Oil  
Bakul Oil  
Ketaki Oil  
Kamini Oil  
Lemon Flower Oil  
Gandharaj Oil  
Madhumalati Oil  
Khus Oil  
Lotus Oil  
Storing

## 18. Essences and Ottos

Preparation Of Essences  
Mode of Preparation

Floral Extracts  
Classes Of Essences  
Blending  
Filtering And Packing  
Natural Essences  
Bakul  
Henna  
Musk Henna  
Ketaki  
Bela  
Mallika  
Gandharaj  
Hasu-No-Henna  
Champaka  
Jahuri Champaka  
Kantali Champaka  
Rose  
Tuberose  
Chameli  
Jasmine  
Khus  
Janti  
Orange  
Ambergris  
Musk  
Patchouli  
Cloves  
Lavender  
Pumelo  
Cassia  
White Rose  
Orange  
Bergamot  
Violet  
Rose Geranium  
Lemon  
Sandalwood  
Artificial Essences  
Simple Essences  
Essences from Country Ottos  
Handkerchief Essences  
Compound Essences  
Preparation of ottos  
Floral Ottos  
Rose  
Bela  
Chemeli  
Jasmine  
Mallika  
Madhumalati  
Henna  
Musk Henna  
Champaka

Kantali Champaka  
Jahuri Champaka  
Dolan Champaka  
Nageswar Champaka  
Bakul  
Ganharaj  
Hasu-No-Henna  
Patchouli  
Tuberose  
Keora  
Kamini  
Khus  
Janti  
Pumelo  
Shephalica  
Sandalwood  
Artificial Ottos  
Marketing

#### 19. Aromatic Waters

Rose And Keora Water  
Rose Water and Otto  
Keora Water

#### 20. Blending: The Perfumer's Art

Blending for Fragrance  
Classifying Odours  
Perfume Categories  
Floral (F)  
Oriental (F/M)  
Chypre (F/M)  
Green (M/F)  
Fougere (M)  
Citrus (M)  
Perfume Notes  
Top Notes  
Middle Notes  
Base Notes  
Perfume Fixatives  
Top, Middle and Base Notes  
Aspects of Blending  
Odour Intensity  
Beginning Blending  
Therapeutic Blending  
Safety  
Purpose  
Application  
Step-by-Step Blending  
Required Suppliers  
Sample Recipes  
Perfume cologne  
Ancient perfume formulations  
Natural Ingredients in Commercial Perfumes

## Perfume Formulas Throughout History

### Blending with imagination

#### 21. Body Care

- The Aromatic Bath
- Floating Aromatic Bath Oils
- Dispersing Bath Oils
- Aromatic Bath Vinegar
- Aromatic Bath Salts
- Aromatic Combinations for the Bath
- Steam Baths
- An Aromatic Bath Experience
- Foot or Hand Bath
- Aromatic Body Powders
- Aromatic Hair Care
- An Aromatic Miscellany

#### 22. Facial Care

- Beauty Techniques
- Cleansers
- Steaming
- Exfoliates
- Masks
- Toners
- Aromatic Hydrosols
- Fragrant Waters
- Moisturizers
- Herbs and Essential Oils for the Skin
- Home Facial Routine
- Skin Types
- "Normal" Skin
- Dry Skin
- Oily Skin
- Combination Skin
- Problem Skin

#### 23. Hair Oil and Toilet Preparations

- Scented Hair Oils
- Popularity of Hair Oils
- Chief Constituents
- Base oils
- Vegetable Base Oils
- Mineral Base Oils
- Benzoated Oils
- Floral Oils in Hair Oil Making
- Incorporation of Perfumes
- Manipulations
- Filtration And Refining
- Filtration of Thick Oils
- Refining with Animal Charcoal
- Coconut Oil Refining
- Deodourising Coconut Oil
- Refining Castor Oil

Deodourising Castor Oil  
Refining Groundnut Oil  
Bleaching Groundnut Oil  
Addition of scents  
Colouring Hair Oils  
Marketing

#### 24. Toilet Preparations

Hair Lotions  
Lipsticks  
Pomades  
Pomade A La Rose  
Vanishing Cream  
Cold Cream  
Face Powders  
Talcum Toilet Powder  
Face Lotion  
Sun Burn Lotion  
Nail Polishes  
Finger-Tip Colouring  
Freckle Lotion  
Rouge Sticks  
Hair Fixative  
Non-Greasy Hair Cream  
Cantharides Hair Wash  
Coconut Oil Shampoo  
Lime Juice Cream  
Lime Juice Glycerine  
Wrinkle Remover  
Bindi Liquid  
Bindi stick  
Liquid Brilliantine  
Corn Salve  
Stick Cosmetic  
Scent Cards  
Perfume Tablet  
Solid Perfume

#### 25. Toilet Waters

Lavender Water  
Amber Lavender  
Lily Lavender  
English Lavender Water  
Ambergris Lavender Water  
Eau De Lavender Millefleurs  
Odoriferous Lavender Water  
Florida Water  
Violet Water  
Eau De Cologne

#### 26. Taral Alta

Mode of Preparation  
Marketing

Rose  
Sandal  
Lavender  
Lily  
Henna  
Khus  
Violet  
Cherry Laurel  
Tuberose  
Bela  
Jasmine  
Champaka  
Bakul  
Rose

## 27. Flower Perfumes

Rose  
Red Rose  
Rose damascena  
Rose centifolia  
Tea Rose  
Rose Marechal Niel  
White Rose  
Jasmin  
Orangeflower A  
Violet  
Parma Violets Absolute, Art.  
Violet Base  
Acacia  
Broom  
Carnation  
Cyclamen  
Fougere (Fern)  
Gardenia  
Hawthorn  
Heliotrope  
Honeysuckle  
Hyacinath  
Iris  
Lilac  
Lily-of-The-Valley  
Linden (Lime Blossom)  
Magnolia  
Mignonette (Reseda)  
Mimosa  
Narcissus  
Nardo  
New-Mown Hay  
Nicotiana  
Opopanax  
Orchid (Orchidee)  
Pansy  
Peony

Phlox  
Stocks  
Sweet Pea  
Syringa (Philadelphus)  
Aldehyde G Blend  
Trefle (Clover)  
Tuberose  
Verbena  
Wallflower  
Wistaria  
Ylang-Ylang

## 28. Sophisticated or Fantasy Perfumes

Introductory  
Curacao Base  
Floral Bouquet Perfumes  
Bouvardia Bm  
Aldehydic Perfumes  
Chypre Types  
Oriental Perfumes  
Green Perfumes  
Dominant Note Types  
The Ambergris Note  
Manufacturing Processes  
Alcoholic Strengths  
Control

## 29. Perfumes for Men

Eau de Cologne  
Toilet Waters  
Modified Colognes  
Perfumes for Men

## 30. Perfumes for Many Purposes

The uses of Perfumes  
Perfumes for Soaps  
Soap Perfumery Fashions  
Perfuming synthetic detergents  
Perfumed Disinfectants  
Perfuming the Air  
Incense and Fumigants  
Perfumed Candles  
Paints and Polishes  
Other Household Products  
Perfuming Cosmetics  
Adapting the perfume to the Vehicle  
Perfuming Creams  
Perfuming Powders  
Perfuming Lipstick and Nail Lacquer  
Hair Preparation Perfumes  
Perfumed Aerosols  
In Pharmacy And Medicine  
Industrial Perfumes



Perfumes for Textiles  
Perfumed Ink and Paper  
Masking Malodours

Perfume In Agriculture  
Perfumed Insecticides  
And Many Other Uses  
Flavours As Perfumes

31. Fixation of Perfumes

Glossary

Directory Section  
List of Perfumes, Cosmetics and Toiletries Manufactures  
List of Machinery Suppliers (Indigeneous)

## 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.

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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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