

# **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 Series: 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 (*Artemisia*)  
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 linon)  
Lemongrass (Cymbopogon citratus)  
Lovage (Levisticum officinale)  
Marjoram (Origanum marjorana or Marjorana hortensis)  
Melissa (Melissa officinalis)  
Mimosa (Acacia decurrens var. dealbata)  
Myrrh (Commiphora myrrha)  
Myrtle (Mytus 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.

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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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