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# ENTREPRENEUR INDIA

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## Industrial Alcohol Technology Handbook

₹ 1675/- US \$ 150

### Industrial Alcohol Technology Handbook

The various substrates used for ethanol production are sugar crops such as sugarcane, sugar beet, sorghum, etc. provide a good substrate. By-product of these crop processing, e.g., molasses, sweet sorghum syrup, etc. are the most common substrates. Cereals like maize, wheat, rice etc are also used for ethanol production. Distillation of industrial alcohol, which is normally not used for consumption, can be made in a two-step process. The process of distillation is one with

a slow dynamics making it essential to have a carefully planned and designed control system. This handbook provides complete details on process and the technology used in the production of ethanol from various sugar crops and cereals and also briefs the different types of monohydric, trihydric and polyhydric alcohols. This handbook will be very helpful to its readers who are just beginners in this field and will also find useful for upcoming entrepreneurs, existing industries, technical institution etc.



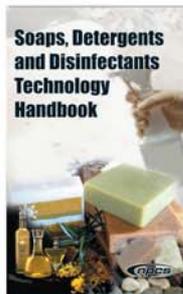
## Phenolic Resins Technology Handbook

₹ 1275/- US\$ 125

### Phenolic Resins Technology Handbook

Until the early 1920, only naturally occurring resins, such as congo kauri gums or shellac were used in the surface coating industry. Varnish makers combined these resins with oil. The advent of the hard oil-soluble synthetic resins opened the way to a more scientific approach to varnish making. The development of synthetic resins for

surface coating applications has usually followed the use of similar material in the plastic industry. One of the first synthetic resins ever used commercially, both in plastics and in surface coatings was the phenolic resin. Phenolic resins result aldehyde with or without modification. The present book covers manufacturing processes of phenolic resins. This book is very useful for new entrepreneurs, technocrats, established units and research scholars.



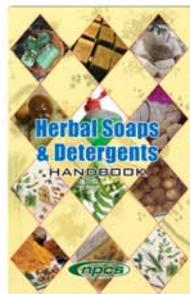
## Soaps, Detergents and Disinfectants Technology Handbook

₹ 1275/- US\$ 125

### Soaps, Detergents and Disinfectants Technology Handbook

It has been said that amount of soap and detergent consumed in a country is a reliable measure of its civilizations. There was a time when these products were luxury; now it is a necessity. A disinfectant or agent that frees from infection is ordinarily a chemical agent

which kills disease germs or other harmful microorganisms and is applied to inanimate objects. The present book contains formulae, processes of different types of soaps, detergents and disinfectants. These products have good demand in domestic as well as in International market. So there is a very good scope for new entrepreneurs to venture into this field. This book is very useful for entrepreneurs, technocrats and for those who want to diversify in this field.



## Herbal Soaps & Detergents Handbook

₹ 1275/- US \$ 125

### Herbal Soaps & Detergents Handbook

The use of herbs for medicinal and cosmetic purpose goes back to the ancient times. The emphasis at the present hour has been laid on the spectacular growth of the herbal and ayurvedic products. The demand in past is found to have increased with increase in number of middle class population. People are now a days very much aware of the ingredients in cosmetic products, the benefits of plant products and the harmful effects of chemical ingredients. Due to the increasing awareness and importance of cleanliness and healthiness, the use of herbal products is also increasing. Future

demand for herbal products depends upon the per capita rate of consumption and segment of population using these products. This handbook provides detailed information on the manufacturing process of herbal soaps and detergents. This book contains numerous formulae, manufacturing process of different type of soaps and detergents which are used in day to day life. The book is an unique compilation and will be very helpful to all its readers, new entrepreneurs, professionals, beauty care product manufacturers, existing units, technical institutions, etc.



## Gums, Adhesives & Sealants Technology Handbook

₹ 1475/- US \$ 150

### Gums, Adhesives & Sealants Technology Handbook

(with Formulae & their Applications)

The adhesives and sealants are two chemically similar but functionally different groups of formulated products. There is no end in sight to the new materials, new formulation, and new uses to which adhesives and sealants will be put in the future. This book covers a wide range of polymeric adhesives and sealants, gums along with their essential formularies,

distinguished by applications and based on technology. The main areas covered in details are the basic fundamentals, properties, uses and applications, formulations and chemistry, methods of manufacturing and lastly testing methods. This book will be very helpful to its readers who are just beginners in this field and also to upcoming entrepreneurs, engineers, existing industries, technologist, technical institution etc.



## Handbook on Paints and Enamels

₹ 1275/- US \$ 125

### Handbook on Paints and Enamels

This book is the outgrowth offered in the chemistry and chemical engineering of organic polymeric and resinous substances. Needless to say such a book is not available because of the rapidity of growth in the polymer field; it has been difficult to resist the temptation to all with

new discoveries and products.

The book is emphasized on manufacturing of different types of paints, enamels and allied products. It was purposely made wide, so that the book could be used as a text regardless to particular field of interest. All the chapters are introduced separately with simpler language. The book will be very helpful for technocrats, new entrepreneurs, industrialists and for those who wants to diversify into this field.

## BOOKS ON FOOD, SPICES, BAKERY, FRUITS, VEGETABLES, POULTRY, DAIRY, CONFECTIONERY, AGRO PRODUCTS/OILS & FATS, FOOD COLOURS, ADDITIVES



### The Complete Technology Book On DAIRY & POULTRY INDUSTRIES

**(With Farming & Processing) 2nd Revised Edition**  
Developments in the Dairy and Poultry industries during the last decade have been important enough to be brought out a considerable amount of material on Dairy and Poultry farming and processing of milk and poultry related products. The first book of its kind which cover complete details of dairy poultry farming, processing, how to feed cows, birds in dairy and poultry, kind of diseases and their cure and other information related to farming. ₹1275 US\$125



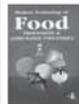
### The Complete Technology Book On SNACK FOODS

There are plenty of marketing niches and slots to be filled in the Snacks Food area. This book attempts to provide the processes for the manufacture of various Snacks food items which has tremendous domestic and export market. ₹975 US\$100

### MODERN TECHNOLOGY OF MILK PROCESSING & DAIRY PRODUCTS 3rd Rev. Edn.



The dairy industries in many countries a major contributor to the manufacturing capacity of the food sector, and as more components of milk are utilised in processed food, so this importance is likely to grow. This book is devoted solely to milk and its products. The book deals with processes, formulae, project profiles, details of plant machinery and raw materials with their resources etc. of various dairy products. ₹975 US\$100



### MODERN TECHNOLOGY OF FOOD PROCESSING & AGRO BASED INDUSTRIES 2nd Edn.

The book contains confectionery, bakery, canning and preservation, fruits and vegetable products, Agro based projects with processes, formulae, machinery and raw materials sources etc. ₹1575 US\$150



### Hand Book on SPICES

India is one of the leading producers and exporters of spices in the world. This book covers the comprehensive information on cultivation and processing of main spices and condiments of India which play important role in national economies of several spices producing, importing and exporting countries. ₹975 US\$100



### Modern Technology of CONFECTIONERY INDUSTRIES With Formulae & Processes 2nd Rev. Edn.

Confectionery in a broader sense implies the preservation of sweet-meat preparation in the form of candies, caramels, chocolates, processed cocoa products and traditional Indian confections. Special emphasis has been made on describing the various process parameters and equipments used with the help of process diagrams wherever necessary. Apart from these it also

contains details of cooking techniques, formulae, processes, the incorporation of flavours and essences, permitted colours used, quality control aspects alongwith sources of plant, machinery and raw material. ₹600 US\$100



### RABBIT, GOAT, SHEEP, POULTRY, FISH AND PIG FARMING WITH FEED TECHNOLOGY

Livestock and poultry in Indian tropics and subtropics play a critical role in agricultural economy by providing milk, wool, meat, eggs and draft power and manure. They are living banks for farmers and provide flexible reserves during period of economic stress and buffer against crop failure. Rabbit farming is no doubt very profitable wing to their short generation interval and their rapid prolificacy. The large demand for animal protein and fiber, the future for sheep meat and wool seems to be assured. Sheep rearing is the major source of livelihood to small and marginal farmers and landless labourers in hilly areas, arid and semi-arid region of India. Goat was believed to be the earliest ruminant, among livestock, species, to be domesticated by man in around 7600 B.C. probably, due to its multipurpose utility to the human beings. Fish is a good source of animal proteins, Man has realized its importance from the very inception of the evolution of the human race. ₹1100 US\$125



### The Complete Technology Book on Cocoa, Chocolates, Ice cream and other Milk Products

Cocoa, Chocolate and Ice cream are the products which has a good nutritious value and relatively inexpensive food. Cocoa butter is used in chocolate and to cover other confectionery products. Now a days chocolate and ice reams are gaining good popularity among the society all over the world. The present book contains formulae, processes and other relevant details related to

manufacture of Cocoa products, chocolates, ice cream and other milk products. An attempt has been made to bring in to focus the significant aspect of cocoa products, dairy products manufacturing. ₹1275 US\$125



### FOOD PACKAGING TECHNOLOGY HANDBOOK 2nd Rev. Edn.

This book gives comprehensive account of food packaging, which is the most important part to preserve the food for a long time. ₹1475 US\$150

### THE COMPLETE TECHNOLOGY BOOK ON PROCESSING, DEHYDRATION CANNING, PRESERVATION OF FRUITS & VEGETABLES

A Comprehensive book which deal with Processing, Dehydration, Canning, Preservation of various fruits and vegetables. Information on quality control and other parameters has been discussed in this book which is necessary for this type of project. Each chapter gives theoretical as well practical information to understand the basic principles and methodology. ₹1575 US\$150

### THE COMPLETE TECHNOLOGY BOOK ON BAKERY PRODUCTS 2nd Edn.

Bakery products are gaining a new dimension in modern times owing to their versatility in day to day life. Being highly demandable products, their popularity is increasing tremendously. The book elucidates full procedure to be adopted for making various bakery products, details of raw materials, plants and machinery required along with their suppliers, formulae, processes etc. ₹1100 US\$125

### Modern Technology on Food Preservation

The people in the world required trillions pounds of food, one mouthful at a time, during the period from one food harvest to the next. All of man's foods are perishable commodities, they begin to deteriorate shortly after harvest, gather or slaughter. The purpose of this book is to present the elements of the technology of food preservation. It deals with the products prepared from various fruits and vegetables commercially as well as on home scale. Relevant information on enzymes, colours, additives, flavours, adulteration, etc., has been given. ₹1275 US\$125

### Hand Book on FRUITS, VEGETABLES & FOOD PROCESSING With Canning & Preservation 3<sup>rd</sup> Rev. Edn.

Natural foods such as fruits and vegetables are among the most important foods of mankind as they are not only nutritive but are also indispensable of the maintenance of the health. The present book covers the processing of various types of fruits, vegetables and other food products. Apart from this Canning and Preservation processes are also included in this book with other comprehensive details. ₹1475 US\$150

### Modern Technology of OILS, FATS & ITS DERIVATIVES

The book contains the manufacturing processes and other related informations of important Oils, Fats and their derivatives. ₹1100 US\$125

### Modern Technology of AGRO PROCESSING AND AGRICULTURAL WASTE PRODUCTS

The book deals with the processing of different products manufactured from agro crops. It also contains the number of products made from agricultural waste with their project profiles, requirements of plant, machinery and raw materials and addresses of their suppliers. ₹975 US\$100

### FOOD COLOURS, FLAVOURS AND ADDITIVES TECHNOLOGY Handbook

The people in earth require about 3.4 billion pounds of food, one mouthful at a time. All of man's food are perishable. They begin to deteriorate shortly after harvest. This also loose the restrictive value of foods. In this twenty first century, mankind has developed a technology to retain the original value of food by adding additives, flavours and colours, which also increases the taste of food. ₹1000/- US \$ 100

### Food Flavours Technology Hand Book

No Doubt flavour is one of the most important attributes of the food products we eat in our daily life. Man does not eat simply to live but even more so lives to eat. The flavour industry has become a vital element in the growth and success of food and beverage industries worldwide. The present book contains formulae, processes of various flavours applied in food and beverage industries. ₹1075 US\$125

### The Complete Technology Book on Flavoured Ice Cream

Ice Cream is a favourite food of millions around the world. It is a frozen mixture of a combination of component of milk, sweeteners, stabilizers, emulsifiers and flavours. Ice cream is a palatable, nutritious and relatively inexpensive food. No other food enjoys so much popularity and has as attractive a form and appeal as ice cream. It is a comprehensive book which covers all the aspects of manufacturing of ice cream in various flavours. ₹975 US\$100

### Wheat, Rice, Corn, Oat, Barley and Sorghum Processing Handbook (Cereal Food Technology)

Cereal grains play an important role in meeting the nutrient needs of the human population. Like any food, they are good to excellent sources of some nutrients and low or void in other nutrients. The vitamins content varies from one part of grain to another. The quality of cereal product is determined by a variety of characteristics which may be assigned different significance depending on the desired and use or type of product. The present book contains processing of various cereal like wheat, rice, corn, oat, barley and sorghum with latest techniques. ₹975 US\$100

### The complete Book on SPICES & CONDIMENTS (With Cultivation, Processing & Uses)

The great mystery and beauty of spices is their use, blending and ability to change and enhance the character of food. Spices and condiments have a special significance in various ways in human life because of its specific flavours, taste, and aroma. Spices and condiments play an important role in the national economies of several spice producing, importing and exporting countries. India is one of the major spice producing and exporting countries. The present book contains cultivation, processing and uses of various spices and condiments, which are well known for their multiple uses in every house all over world. ₹1500 US\$150

## SYNTHETIC RESINS



### The Complete Technology Book on Synthetic Resins With Formulae And Processes

Synthetic Resins are used by lot of industries. Yet until, little emphasis has been placed on the comparative value or functionality of polymeric material as a class. These resins have been classified in separate categories, usually in terms of their Chemistry, sources or end uses. The present book contains formulae, processes and other valuable details for various synthetic resins. ₹1150 US\$125

### Modern Technology of Synthetic Resins & Their Applications



The book covers manufacturing processes formulae of various types of synthetic resins with their applications. ₹975 US\$100



### Synthetic Resins Technology Handbook

Resins are polymeric compounds which are available in nature and are also manufactured by synthetic routes. Some resins are also manufactured by partial modification of natural precursor polymer by chemical. The resins have wide industrial uses like in lacquers, paints, textiles, varnishes, printing inks and cosmetics etc. This book contains formulae, processes and applications of various resins. ₹1100 US\$125



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*NPCS marketing Associates of National Institute of Industrial Research, NIIR an ISO 9001 : 2008 CERTIFIED COMPANY is a reliable name in industrial world for offering integrated technical consultancy service and also technical collaborations. At NPCS, we provide prudent advice regarding a business when diversification is on the anvil, when an entrepreneur is up against lack of information before starting a project, we strive to provide them with technology evaluation, sourcing and assimilation of detailed project reports, market survey studies and research through our advanced Industrial, Business and Commercial Database.*

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## YEAST FROM MOLASSES

Yeasts are unicellular, eukaryotic and polyphyletic organisms classified in the kingdom fungi. They are ubiquitous, and commonly found on fruits, vegetables and other plant materials. They are facultative anaerobes and can respire and survive under both aerobic and anaerobic conditions. In the absence of oxygen, they can ferment sugar into alcohol (ethanol) and carbon dioxide and low biomass. In well-aerated conditions, the cells could be able to get enough energy and convert sugar into high biomass.

Yeasts can be found everywhere in nature, especially on plants and fruits. After fruits fall off the tree, fruits become rotten through the activity of moulds, which form alcohol and carbon dioxide from the sugars in it. Sometimes drunk animals appear in the news because they have eaten these spoiled fruits.

Molasses is a byproduct of the sugar industry. It is residue after the crystallization of the main fraction. When no more sugar can be crystallized out of solution, the resulting liquid (molasses), containing about 50% sucrose is eliminated. For every 100 Kg of plant, some 3.5 to 4.5 Kg of molasses may be obtained from sugar industry.

The composition molasses may vary quite widely depending on the location, soil type, the climatic conditions and the production process of each individual sugar factory.

### USES & APPLICATIONS

The principle use of Baker's yeast is as an essential bakery ingredient- for causing fermentation in the dough used in making bakery items. This process helps making soft and fluffy Bakery items like variety of breads, bread rolls, pizza base, cracker biscuits, sweet breads and burger buns etc. Production of Yeast cells, Yeasts for Bioethanol Production, Alcoholic beverages from yeast, other yeast products & Flavor enhancing property.

### MARKET SURVEY

Within the past few years yeast extracts have become important components in savory flavours as well as in fermentation media. Going ahead, the global yeast market is projected to witness positive growth across all applications and segments. Given the increasing demand and penetration of the food & beverage industry, growth prospects for yeast and yeast-based products would remain buoyant in the long term, both in developing and developed countries. Baker's yeast continues to represent the largest yeast variety, given its large-scale applications in food processing and alcohol fermentation. Future prospects are positive for all types of yeasts and yeast-derived products.

The growth of Baker's yeast market is directly linked to the increasing trend of processed and fast food consumption, especially bakery items. The principal use of baker's yeast is as an essential bakery ingredient for causing fermentation in the dough used in making bakery items. This process helps making soft and fluffy bakery items like variety of breads, bread rolls, pizza base, cracker biscuits, sweet breads and burger buns etc. Molasses is one of the major source for the extraction of yeast.

### Cost Estimation

Capacity	: 10 MT/Day
Plant & Machinery	: Rs.276 Lakhs
Cost of Project	: Rs.649 Lakhs
Rate of Return	: 29 %
Break Even Point	: 56 %

## CARAMEL COLOUR FROM SUGAR

Caramel is a well-known Pure and simple, brown means flavor and staple commercial material. It is an amorphous, dark-brown material that has been produced by the carefully controlled heat treatment of saccharine materials such as dextrose, invert sugar, lactose, malt syrup, molasses, sucrose, starch hydrolysates and fractions thereof, etc. The heavy-bodied, almost black syrup contains color, components that impart the amber shade found in carbonated beverages, pharmaceutical and flavoring extracts, candies, soups, bakery products, and numerous other foods.

Caramelization, the act of breaking up the natural sugar

molecules in food to create a different flavor compound, makes everything taste better. Caramelization is one of the most important types of browning processes in foods. It is the interaction between sugar and sugar. Fructose and glucose are reducing sugars so they give their electrons to other molecules developing compounds which give caramel colors and flavors, viz; Diacetyl gives a buttery flavor, Furan gives a nutty flavor, Acetaldehyde gives a rum or cherry components flavor.

#### TYPES OF CARAMEL COLOR

There are four distinct types of caramel color as per their application to satisfy the requirements of different food and beverage systems.

Caramel Color I (also known as plain or spirit caramel), Caramel Color II (caustic sulfite caramel), Caramel Color III (ammonia or beer caramel, bakers and confectioners caramel), Caramel Color IV (known as sulfite-ammonia, soft drink caramel, or acid proof caramel).

Each type of caramel color has specific functional properties that ensure compatibility with a product and eliminate undesirable effects, such as haze, flocculation, and separation. Caramel colors are dark brown to black liquids or solids having an odor of burnt sugar and a pleasant, somewhat bitter taste. They are totally miscible with water and contain colloidal aggregates that account for most of their coloring properties and characteristic behavior toward acids, electrolytes, and tannins. Caramel colors are prepared by controlled heat treatment of carbohydrates.

#### USES & APPLICATIONS

Thousands of companies use caramel colors in the manufacture of various foods and beverages. Through the years, a great deal has been learned about the use of this ingredient. The following are items to be considered in developing formulations with caramel color.

The caustic caramel colour, which is a viscous electro positive liquid colour. It imparts a Reddish yellow shade to Beer and is hence used in the Brewery Industry. This Caramel can also be used by the Malt and Milk foods industry as well as a natural colourant in pharmaceutical industries.

Caramel colour is positively charged and is widely used in lagers and beers, bakery and confectionery, dairy and ice-cream, brown sauces, pet foods,

**Continue on page 5**



## PROCESS TECHNOLOGY BOOKS

NAME OF BOOKS	₹/US\$
<b>CHEMICALS, FINE CHEMICALS, VITAMINS, AMINO ACIDS AND PROTEINS</b>	
*Handbook On Chemical Industries (Alcohol Based)	750/- 100
*Industrial Chemicals Technology Handbook	1100/- 125
*The Complete Technology Book On Chemical Industries	975/- 100
*Modern Technology Of Industrial Chemicals	1100/- 125
*The Complete Technology Book On Fine Chemicals	1100/- 125
*Handbook On Fine Chemicals, Vitamins, Amino Acids And Proteins	1450/- 150
<b>PHARMACEUTICAL, DRUGS</b>	
*Drugs & Pharmaceutical Technology Handbook	1075/- 125
<b>PESTICIDES, INSECTICIDES</b>	
*The Complete Technology Book On Pesticides, Insecticides, Fungicides and Herbicides With Formulae & Processes	1100/- 100
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<b>STARCH &amp; ITS DERIVATIVES</b>	
*The Complete Technology Book On Starch & Its Derivatives	1100/- 125
<b>WAX &amp; POLISHES</b>	
*The Complete Technology Book On Wax And Polishes	1675/- 150
<b>BIO-TECHNOLOGY, NANOTECHNOLOGY, ENZYMES, FOOD BIO-TECHNOLOGY, VERMICULTURE, VERMICOMPOST, BIO-FERTILIZER, ORGANIC FARMING, BIOGAS, MUSHROOM</b>	
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*Plant Biotechnology Handbook	1100/- 125
*Enzymes Bio-Technology Handbook	1100/- 125
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*Handbook On Food Bio-Technology	1100/- 125
*Handbook On Plants And Cell Tissue Culture	1275/- 125
*The Complete Technology Book On Vermiculture And Vermicompost	750/- 100
*The Complete Technology Book On Bio-Fertilizer And Organic Farming (2 <sup>nd</sup> Rev. Edn.)	1400/- 150
*Handbook On Biogas And Its Applications	975/- 100
*Handbook On Mushroom Cultivation And Processing (With Dehydration, Preservation And Canning)	1275/- 125
*The Complete Book on Organic Farming and Production of Organic Compost	1275/- 125
*Nanotechnology Handbook	1675/- 150
*Nanoscience and Nanotechnology Handbook	1675/- 150
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*Modern Technology Of Printing & Writing Inks	750/- 100
*The Complete Technology Book On Printing Inks	1000/- 100
*The Complete Book On Printing Technology	1100/- 125
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*Screen Printing Technology Handbook	1000/- 100
*Modern Printing Technology	250/- 50
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*The Complete Technology Book On Pulp & Paper Industries	1100/- 125
*Handbook on Pulp and Paper Processing	1875/- 150
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*Cultivation Of Tropical, Subtropical, Vegetables, Spices, Medicinal And Aromatic Plants	1075/- 125
*Tropical, Subtropical Fruits And Flowers Cultivation	1075/- 125
*Food Packaging Technology Handbook (2 <sup>nd</sup> Rev. Edn.)	1475/- 150
*Modern Technology On Food Preservation (2 <sup>nd</sup> Rev. Edn.)	1275/- 125
*Modern Technology Of Food Processing & Agro Based Industries (2 <sup>nd</sup> Edn.)	1575/- 150
*Modern Technology Of Confectionery Industries With Formulae & Processes (2 <sup>nd</sup> Rev. Edn.)	600/- 100
*Modern Technology Of Agro Processing & Agricultural Waste Products	975/- 100
*Handbook On Spices	975/- 100
*Modern Technology Of Oils, Fats & Its Derivatives	1100/- 125
*Modern Technology Of Milk Processing & Dairy Products (3 <sup>rd</sup> Rev. Edn.)	975/- 100
*The Complete Technology Book On Dairy & Poultry Industries With Farming & Processing 2 <sup>nd</sup> Revised Edition	1275/- 125
*The Complete Technology Book Of Cocoa, Chocolate, Ice Cream And Other Milk Products	1275/- 125
*The Complete Technology Book On Flavoured Ice Cream	975/- 100
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*The Complete Book On Spices & Condiments (With Cultivation, Processing & Uses)	1500/- 150
*The Complete Book On Coconut & Coconut Products (Cultivation And Processing)	1100/- 125
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*Handbook On Fisheries And Aquaculture Technology	1100/- 125
*Fresh Meat Technology Handbook	975/- 100
*The Complete Book On Meat Processing And Preservation With Packaging Technology	975/- 100
*Preservation Of Meat And Poultry Products	1100/- 125
*Potato and Potato Products Cultivation, Seed Production, Manuring, Harvesting, Organic Farming, Storage and Processing	1275/- 125
*Handbook on Rice Cultivation and Processing	1075/- 125



## PROCESS TECHNOLOGY BOOKS

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*The Complete Book on Beekeeping and Honey Processing	1075/- 125
*The Complete Technology Book on Alcoholic and Non-Alcoholic Beverages	2575/- 200
*Handbook on Citrus Fruits Cultivation and Oil Extraction	1575/- 150
*Fruits, Vegetables, Corn and Oilseeds Processing Handbook	1675/- 150
*Handbook on Spices and Condiments (Cultivation, Processing and Extraction)	1575/- 150
*Handbook on Fermented Foods and Chemicals	1875/- 150
*Industrial Alcohol Technology Handbook	1675/- 150
*The Complete Book on Wine Production	2275/- 200
*Handbook on Milk and Milk Proteins	1275/- 125
*The Complete Book on Cultivation and Manufacture of Tea	1475/- 150
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## SELECTED PROJECTS FOR YOU

pharmaceuticals and health foods. The largest portion of caramel color usage in the world is Alcoholic beverages, Food products and Soft Drinks.

### MARKET SURVEY

Coloring materials can enhance a product's natural color, replace what was lost during processing, or add a novel sensory aspect that attracts customers. The coloring category of ingredients also is undergoing great change around the world.

With increasing consumer gravitation toward natural and nature-derived food products, the Indian and the Middle East natural colors market is poised for high growth. Europe and the United States have witnessed widespread usage of natural colors, but the trend is fast catching up in India, the Middle East, and other Asian markets as consumer awareness grows. Growing awareness of the functional and nutritional benefits associated with the use of natural colors has boosted market prospects, paving the way for the utilization of natural colors in a host of food and beverage applications apart from the usual coloring properties. "Food and beverage manufacturers are constantly exploring ways to include indigenous ingredients and provide new age, value-added, shelf stable natural colors.

Food and drinks manufacturers across the world are turning in greater numbers towards natural colorings for inclusion within their products, as consumers increasingly shun foodstuffs containing artificial ingredients and additives.

The trend is driving demand for colouring foodstuffs, which are coming into favour since they are not classed as additives and therefore require no E number. The food industry accounts for more than two-thirds of the world market for food colours, ahead of soft drinks and alcoholic beverages.

### Cost Estimation

Capacity	: 3 MT/Day
Plant & Machinery	: Rs. 38 Lakhs
Cost of Project	: Rs. 174 Lakhs
Rate of Return	: 35 %
Break Even Point	: 52 %

## INDUSTRIAL ENZYMES

The word "Enzyme" brings to mind the enzymes studied in biology like trypsin and Insulin. However, as is

**Continue on page 7**

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**npcs** **SELECTED PROJECTS FOR YOU**

*Continue from page 5*

common knowledge, the use of enzymes are not only restricted to biological systems but they are also used widely in the industry.

Biotechnology, with its knowledge-intensive nature and tremendous economic potential, has emerged as one of the rapidly-growing sectors of the Indian knowledge economy today. Focusing on the practical use of biological systems to produce goods and services, biotechnology has made significant achievements in the growth and its application in the areas of agriculture, healthcare, environment, etc through R & D projects and infrastructure creation.

**USES OF ENZYME**

The food processing industry is highly dependent on enzymes. During processing of food, enzymes are added to elaborate a wide range of effects. One such important effect is to modify biopolymers to obtain the desired end product. Further, the action of enzymes on foodstuffs facilitates in improving digestibility, palatability and attractiveness besides enhancing nutritive value of the food.

The main user industries are detergents, starch, alcohol, protein, fruit Juice, food storage, in dairy processing, in antibiotics production etc, each with around 30% of sales, and dairy with about 15%. The remaining sales are distributed in an extremely diverse range of industries.

**MARKET SURVEY**

The industries involved in enzyme production in India is almost nil when compared to the world enzyme market, though in certain cases, considerable amounts of raw materials are supplied for their enzyme production. In the industries, either submerged culture or surface culture techniques are used for

enzyme production. While the Japanese enzyme producers employ the relatively simple but labour intensive techniques of surface culture, USA and European producers use the submerged culture approach. Instead of importing the technical know-how from Western countries, it is desirable to develop the same suitable to our needs, keeping in view the existing infrastructural facilities available here.

Enzyme industry will flourish only when it realizes the fact that the present development of various other chemical industries are at the expense of the future generation. Unless the society and in turn policy makers realize the importance of the use of enzymes, which is an eco-friendly process, it is difficult to predict the potential for enzyme industry in our country. Based on growth rate in India, the demand for enzyme is computed which is definitely higher than the production.

Enzyme technology is presently going through metamorphosis. It is the development of the theory concerning enzymic function and how the structural entity of various domains of a protein are revealed to its catalytic activities.

Still there remains, for further development of a useful process based on the present understanding of enzyme. In future, enzymes will be used more widely for diverse actions. Established enzymes will be put to new uses in different media and novel enzymic functions would emerge out of this process.

**Cost Estimation**

Capacity	: 10 MT/Day
Plant & Machinery	: Rs. 597 Lakhs
Cost of Project	: Rs. 1114 Lakhs
Rate of Return	: 26 %
Break Even Point	: 51 %

### BLENDING OF LUBE OIL FROM MINERAL BASE OIL

**A**lubricant is a substance introduced to reduce friction between moving surfaces. It may also have the function of transporting foreign particles. The property of reducing friction is known as lubricity.

One of the single largest applications for lubricants, in the form of motor oil, is protecting the internal combustion engines in motor vehicles and powered equipment.

Typically lubricants contain 90% base oil (most often petroleum fractions, called mineral oils) and less than 10% additives. Vegetable oils or synthetic liquids such as hydrogenated polyolefins, esters, silicones, fluorocarbons and many others are sometimes used as base oils. Additives deliver reduced friction and wear, increased viscosity, improved viscosity index, resistance to corrosion and oxidation, aging or contamination, etc.

Lubricants such as 2-cycle oil are added to fuels like gasoline which has low lubricity. Sulfur impurities in fuels also provide some lubrication properties, which has to be taken in account when switching to a low-sulfur diesel; biodiesel is a popular diesel fuel additive providing additional lubricity.

#### USES

Automotive, Engine oils, Petrol (Gasoline) engine oils, Diesel engine oils, Automatic transmission fluid, Gearbox fluids, Brake fluids, Hydraulic fluids, Tractor (one lubricant for all systems), Universal Tractor Transmission Oil - UTTO, Super Tractor Oil Universal - STOU - includes engine, Other motors, 2-stroke engine oils, Industrial, Hydraulic oils, Air compressor oils, Gas Compressor oils, Gear oils, Bearing and circulating system oils, Refrigerator compressor oils, Steam and gas turbine oils, Aviation, Gas turbine engine oils, Piston engine oils, Marine, Crosshead cylinder oils, Crosshead Crankcase oils, Trunk piston engine oils, Stern tube lubricants.

#### MARKET SURVEY

The lubricating oil and grease market in India is of the order of about 4.6 mn tonne and is growing at around 4.5% annually. The moderate growth is paradoxically due to the supply of better quality of lubricants which have longer servicing capability.

The lube market consists of two major segments, automotive and industrial, the two having a market share of 65% and 35%, respectively. Most of the competition is crowding into the first category. In the automotive segment, while cars and two/three wheelers segment accounts for 37% of the market, diesel-operated engines, trucks and other heavy vehicles have the bulk share of 63%.

The market has got increasingly specialised. Two major features of the product transformation are eco-friendliness and energy efficiency. Accordingly, biodegradable oils and long-life greases will be in greater demand. Aviation and defense lubricants have been specialised areas which require very meticulous adherence to specifications. Aviation lubricants demand high value addition and is expected to grow faster with commercial aviation.

The global lubricant market is generally competitive with numerous manufacturers and marketers. Overall the western market may be considered mature with a flat to declining overall volumes while there is strong growth in the emerging economies. The lubricant marketers generally pursue one or more of the following strategies when pursuing

business.

#### Cost Estimation

Capacity	: 25 million ltrs/Annum
Plant & Machinery	: Rs. 487 Lakhs
Cost of Project	: Rs. 1557 Lakhs
Rate of Return	: 43 %
Break Even Point	: 44 %

### SORBITOL

**S**orbitol is one of many sugar alcohols found in nature that gets metabolized slower in our bodies than other normal dietary sugars. Also known as glucitol, sorbitol is a result of the hydrogenation of the aldehyde moiety of glucose, giving glucose a terminal hydroxyl group. This is significant in its pharmacology and lower caloric yield.

Sorbitol is low caloric refined sugar alcohol, which is produced from dextrose. Chemically it is hexahydric alcohol and is also known as hexatol, D-Glucitol and D- Sorbitol. Chemically, Sorbitol is a hexitol,  $C_6H_{14}O_6$ , found in nature as the sweet constituent of many berries and fruits best known from *Sorbus aucuparia* (Rowan or European Rowan) from which it was isolated for the first time in 1872.

Sorbitol is today commercially produced from starch by enzymatic hydrolysis and catalytic hydrogenation. It has wide applications as a sweetener and humectant.

Sorbitol has a smooth mouth feel with a sweet, cool and pleasant taste. It shares many applications with propylene glycol and glycerine and glycerine provides hard competition in the market for humectants. Sorbitol acts as a crystallization modifier or inhibitor; it can prevent syrups from forming crystals of sugar. It is used to add body and viscosity to mixtures, and can protect against damage from freezing (cryoprotectant) and drying.

#### APPLICATIONS & USES

Sorbitol, together with other polyhydric alcohols such as glycerol, is one of the ingredients in alkyl resins and rigid polyurethane foams manufacturing. In tobacco industries, sorbitol may give mild effect in sniff, good humectant agent, and avoid acrolein formation which formed in burned glycerine. Sorbitol is used as softener and colour stabiliser in textiles and as softener in leather industries.

Sorbitol sweet tastes form a viscous solution, stabilises moisture, possesses bacterio-static property and is generally chemically inert. These features and properties make sorbitol an ideal and preferred ingredient in many products.

It is being used by pharmaceutical industry, tooth paste manufacturers, food products industry, Oral Hygiene, Skin Cream and Cream Foundation, Textiles, Tobacco, Confectionery, Cosmetics, Emulsion, Diabetic Diets and many others. The increasing use of sorbitol in various end uses has made many big manufacturers to take interest in manufacturing of this. Looking to the trends the world economy.

#### MARKET SURVEY

Sorbitol is an organic chemical, having varied end uses. It is edible, non crystalline, odorless, white powder and having sweet cooling taste. It is highly soluble in water and slightly in methylalcohol.

Sorbitol solutions are high stable. It is marketed mostly in the form of 70 per cent solution. The process involved is very simple, raw materials are indigenously available, technical knowhow is easily available and all these make the project very attractive one. An

## SELECTED PROJECTS FOR YOU

attempt is made here to study the state and structure of the industry.

It is felt that sorbitol will have a very good future.

The demand for sorbitol would depend upon the development of its end-uses and the shape these end-uses industries are likely to take in the future. Pharma and the dentifrice sector are expected to continue dominating the market for sorbitol.

A newly developing outlet for sorbitol is its use in producing clarifying agents for polypropylene. Clarifying agents enable polypropylene to substitute for higher cost polymers in food packaging, drinking cups and house wares. Demand for transparent packages and resin moldings are increasing worldwide.

### Cost Estimation

Capacity	: 47 MT/Day
Plant & Machinery	: Rs. 869 Lakhs
Cost of Project	: Rs. 1235 Lakhs
Rate of Return	: 26 %
Break Even Point	: 41 %

### PRE-LAMINATED PARTICLE BOARD

Particle board is a classic wood-based panel, made from high quality particles of wood / bagasse. It is a low – density board with density range from 650 kgs to 750 kgs per cubic meter. Particle board Plants are specially designed to produce an effective alternative for wood-based panel products.

The Plant utilizes low – cost agri-wastes resulting in a high quality & versatile panel product with virtually unlimited applications. Particleboard is accepted universally.

The extensive range of Pre-Laminated Boards is a remarkable for its superior quality, extraordinary finish and durable characteristics all over the globe. These are manufactured using décor paper which is impregnated with melamine and is machine pressed onto both surfaces of the particle board, under a controlled temperature and pressure. As a result, this boards boast of a virtually imperishable permanent bonding between the board and the laminate. The range is in compliance with as the Indian specifications (BIS), as well as with the rigid German DIN, British and American Standards.

### ADVANTAGES

Easy to clean and maintain, Consistent quality, Adherence to international standards, Economical board sizes resulting in minimal wastage, Excellent acoustic properties, High bending strength, Excellent machinability, Saves both time and labour, The widest spectrum of applications, Free from warpage and peeling of laminates, Easy-to-install, Ready-to-use etc.

### APPLICATIONS

Building and Construction, Panel doors and flush doors, Flooring, Partitioning, Wall paneling, false ceiling, Exhibitions and many more...

### MARKET SURVEY

The average product carries about 50% wood, generally in particulate form, such as wood flour or very short fibers. Pre-Laminated Particle Board represents one of the rapidly growing markets within the plastics industry.

The demand for Pre-Laminated Particle Board and plastic lumber is projected to advance about 10% pa through 2011 to US\$5.4 bln. These alternative lumber materials are expected to continue to penetrate the building materials market at a rapid pace, particularly in decking applications.

### Cost Estimation

Capacity	: 500 Nos. / Day
Plant & Machinery	: Rs. 536 Lakhs
Cost of Project	: Rs. 967 Lakhs
Rate of Return	: 39 %
Break Even Point	: 48 %

### COIR MATTRESSES

Coir fibres are extracted from the husks surrounding the coconut. It is a common experience that fibres detached from the coconut skin are quite hard to break by simple tension, hence by pulling from both sides. Excellent properties of resistance to wear and easy availability in countries, where coconut palms are widespread, have allowed coir to be employed for a variety of uses, e.g., for manufacturing toys, bags and carpets.

Coir is popularly known as the 'golden FIBRE.'

It is extracted from the fibrous husk of the coconut shell. Coconut husk is a residue from coconut production, comprising approximately 30 wt. % coir fibres and 70 wt. % coir pith. It is used to manufacture a wide range of products such as ropes, mats, mattresses, baskets, brushes and brooms. Around 50 per cent of the coconut husk is used for making coir. Mixture of coir fibre and latex is steam heated, pressed and vulcanized to produce mattresses.

### TYPES & STRUCTURE OF COIR FIBRE

There are two main types of coir fibre first is Brown Coir, from fully ripened coconut husks; strong and resistant to abrasion, it is used in brushes, floor mats, and upholstery padding and White Coir, from husks of coconuts harvested just before they ripen; softer and less strong, it is spun into yarn, used for ropes and mats.

### USES AND APPLICATIONS

A small amount is also made into twine. Pads of curled brown coir fibre, made by needle-felting (a machine technique that mats the fibres together) are shaped and cut to fill mattresses and for use in erosion control on river banks and hillsides.

A major proportion of brown coir pads are sprayed with rubber latex which bonds the fibres together (rubberized coir) to be used as upholstery padding for the automobile industry in Europe. The material is also used for insulation and packaging. The major use of white coir is in rope manufacture. Mats of woven coir fibre are made from the finer grades of bristle and white fibre using hand or mechanical looms. Coir is recommended as substitute for milled peat moss because it is free of bacterial and fungal spores.

White coir also used to make fishing nets due to its strong resilience to salt water.

In horticulture, coir is a strongly recommended substitute for sphagnum moss because it is free of bacterial and fungal spores, and produces good results without the environmental damage caused by peat mining. Coir is also useful to deter snails from delicate plantings. Coir is also used as a growing media in intensive glasshouse horticulture.

### ADVANTAGES OF RUBBERIZED COIR MATTRESSES

A coir mattress is typically made similarly to other synthetic core mattresses. Coir mattresses will usually have layers of coir fibers finished with quilting or cloth cover on both sides. Advantages of rubberized coir mattresses are: Coir's moisture reducing and ventilation abilities give coir mattress

the feel of a cool sensation and relaxation, Coir has natural springy quality coir which makes it very supportive, Coir is a hygroscopic material and hence it absorbs moisture from the air. It generally retains 8 to 10% moisture. This gives the cool sensation in the coir mattress, Coir is naturally anti-dust mite which means it is perfect for all allergy sufferers, there are no adverse impacts on the environment and no harmful chemicals are used in making of a rubberized coir mattress. The factory does not emit any pollutants and rubberized coir mattresses are eco friendly, Coir being a natural product is Flame Retardant, etc.

**Cost Estimation**

Capacity	: 390 Nos. / Day
Plant & Machinery	: Rs. 151 Lakhs
Cost of Project	: Rs. 659 Lakhs
Rate of Return	: 28 %
Break Even Point	: 61 %

**ATTA CHAKKI PLANT**

Atta (wheat flour) is one of the staple and basic foods to Indians not only that, it is basic food ingredients for all the men lives in the world.

Wheat is grown in most parts of the world, from near-arctic to near-equatorial latitudes. It is the most important crop among the cereals by area planted and is followed in importance by corn, barley and sorghum. The amount of wheat traded internationally exceeds that of all other grains. Furthermore, the protein and caloric content of wheat is greater than that of any other food crop.

Atta is manufactured from wheat which is cultivated in the winter session or just before it. Though there is development of tissue culture base seeds which can be cultivated throughout the year. Wheat has been collected from wheat field and store it in the godown and it has gone through for further processing.

Wheat flour is the first choice of the health conscious people. Wheat flour is obtained by milling wheat. There are various types of wheat.

An excellent source of complex carbohydrates is wheat flour. Wheat flour contains B-vitamins, calcium, folacin, iron, magnesium, phosphorus, potassium, zinc, minimal amounts of sodium and other trace elements. Other than gluten flour, all types of wheat flour contain 9 to 15 percent of calories derived from protein. Not more than 5 percent calories are derived from fat. Because of its excellent nutritional value, the wheat flour has become the most consumed flour in this world.

**USES OF ATTA**

Wheat flour is used to make rotis, parathas etc. for daily meal. There are various other uses such as in bread and other bakery products as well as in many other recipes in which wheat flour is used as main ingredient. Wheat is also used as an ingredient in compound feedstuffs, starch production and as a feed stock in ethanol production. The whole wheat flour is dark brown in color. The whole wheat flour has more nutritional values than the enriched wheat flour because of that only; people nowadays are opting to use whole wheat flour in their diet.

**PROPERTIES**

It should be free flowing powdery material, it should contain moisture level maximum 12%, It should not contain any insects inside the packet, It should be within 40 mesh size powder with white colour. There is brownish speck available of wheat bran, it is generally contain 7-9% protein, It contains trace minerals which is useful for the health growth.

It has availability of vitamin B complex compound.

**MARKET SURVEY**

Atta is the basic staple food for human being. It is directly used for human consumption. There are few in organised sector manufacturing atta from wheat for human consumption. There is gradual demand increase day by day of 5-10 kg packs.

India produces more than 70 million tonnes of wheat. It is mainly consumed in the form of atta, suji, maida and baking flour. Most of the wheat is milled in small capacity disc mills to produce wheat flour (atta).Wheat has been used in India for over 5,000 years. Wheat today is not the wheat grown up to 1970s. The wheat has gone through major evolution.

Today there are two basic varieties of wheat produced in India to make Atta: Durum and Aestivum. Aestivum is semi hard wheat compared to hard Durum. In India, about 90% of Atta is made from Gehun. Durum is also called Semolina. Durum is harder than any variety of Gehun.

The demand for wheat flour is mainly determined by the growth rate of population and the per capita consumption of flour. Increased application of wheat flour for industrially processing of food products such as pasta and macaroni would also have great bearing of future flour demand.

**Estimation**

Capacity	: 20 MT /day
Plant & Machinery	: 59 Lakhs
Total Capital Investment	: 490 Lakhs
Rate of Return	: 47 %
Break Even Point	: 32 %

**PAPER PLANT (With Wood Chips & Pulp)**

Paper-based packages, containers, sacks and bags are part of our everyday lives, so it can be easy to forget what makes them unique. Unlike other packaging options, paper-based packages are made from trees, a completely renewable source. They are also the most recovered packages for recycling, making them a sustainable, responsible choice throughout their life cycle.

The paper-based packaging industry has joined together to provide businesses and the public with the facts about The Responsible Package. Check out these helpful resources about paper-based packaging that can help you make a sustainable packaging decision.

Most paper is made from wood cellulose, the most abundant chemical on plant earth. Cellulose is renewable, reusable, and sustainable. Cellulose-based products show up in unexpected places: toothpaste, cough syrup, Vitamins A and E, makeup, cologne, shampoo, food packaging, furniture, concrete blocks, football helmets, photographic film, and even ice cream.

Paper is an important part of our future, and our society will need scientists and engineers that are trained to develop the full potential of paper and cellulose based products. A new generation of paper scientists will create new uses for paper, develop new nanocellulose and hemicellulose based materials, discover better genetics for renewing our forests, improve manufacturing processes, and harness the possibilities inherent in the chemistry of cellulose.

Paper is made by pulping wood, bleaching this pulp and then spreading it out into sheets to make it into paper. At various stages of the process, chemicals are used to give the paper particular properties, such



## SELECTED PROJECTS FOR YOU

as the bleaching chemicals that make paper white (and which also enable it to subsequently be coloured).

### USES & APPLICATIONS

Paper is a highly-engineered product that is part of almost everything we use: food containers, books, magazines, catalogs, newspapers, notebooks, facial tissue, paper towels, paper plates, sticky notes and computer paper. Take a look around you – paper is a part of our lives.

Paper may be impregnated, enamelled, metallised, made to look like parchment, creped, water-proofed, waxed, glazed, sensitized, bent, turned, folded, twisted, crumpled, cut, torn, dissolved, macerated, moulded, and embossed. It may be coloured, coated, printed or even written on! It can be laminated with fabric, plastic and metal. It can be opaque, translucent or transparent. It is naturally combustible, or can be made “re-retardent. It may be a carrier or a barrier or a “lter. It may be made tough enough to withstand acid, or soft enough for a baby’s skin. It can be read and worn as a garment. It can be re-used and recycled and it is made from a renewable, sustainable source. The range of possible uses of paper seems almost limitless. New ways of using it are being devised daily. This evolution will continue because paper is an expression of everyday living.

### MARKET SURVEY

India is the 15th largest paper manufacturer in the world, accounting for ~2.5% of the world’s output. India is the world’s fastest growing paper market.

The Indian Paper Industry is a booming industry and is expected to grow in the years to come. The usage of paper cannot be ignored and this awareness is bound to bring about changes in the paper industry for the better. It is a well known fact that the use of plastic is being objected to these days. The reason being, there are few plastics which do not possess the property of being degradable, as such, use of plastic is being discouraged. Excessive use of non degradable plastics upsets the ecological equilibrium. The demand for upstream market of paper products, like, tissue paper, tea bags, filter paper, light weight online coated paper, medical grade coated paper, etc., is growing up. These developments are expected to give fillip to the industry.

Future Development of the Pulp and Paper Sector Ongoing Changes in the Pulp and Paper Industry. Demand for paper and paper products is expected to steadily rise in the future, however at decreasing rates. Future paper demand will be determined by certain factors including a) the level of national income, b) the level of industrial production, c) the level of literacy and education, d) the size of population, e) the price of paper, and other related factors such as government expenditure on education, student population, per capital income etc.

### Cost Estimation

Capacity	: 500 MT / Day
Plant & Machinery	: Rs. 303 Crores
Cost of Project	: Rs. 442 Crores
Rate of Return	: 26 %
Break Even Point	: 41 %

### HDPE PIPES

Provision of drinking water supply, or in other words ‘piped’ water supply to urban and rural population, constitutes an important aspect of developmental programmes in many countries. Among several materials for pipes and fittings, plastics, though of recent origin, have offered vast

potentialities both economical and technical, for exploitation by the engineers, architects and builders of the plastic materials, polyethylene (high density).

These HDPE pipes and fittings have a high degree of corrosion resistance, are light in weight. Yet tough and durable, have excellent, hydraulic properties, excellent thermal properties, weather ability.

High density polyethylene (HDPE) is being used as drainage pipe material because it is lightweight, corrosion resistant, easy to install, and has a low maintenance cost. The design of HDPE corrugated drainage pipe is based on the assumption that the pipe will deform and thus relieve stress. Consequently, ductility is an essential parameter to accommodate allowable deflection during the pipe’s service life. HDPE resins with low ductility can lead to unexpected cracking in the pipe, brought on by a process called “slow crack growth.” To minimize such cracking, the stress crack resistance (SCR) of HDPE resins must be properly evaluated.

HDPE is very flexible and can endure harsher site handling than more brittle polymers like PVC. Flexibility also allows turns in the piping system without the need for additional joints.

### USES AND APPLICATIONS

The plastic pipes are replacing the conventional pipes because of many advantages they have over other piping systems. Some of the main advantages of plastic pipes systems are light weight, easy to handle and installation, better flow characteristics, corrosion and installation resistant, lower power requirement during water transmission, cheap in length to length cost. Plastic pipes are durable and may last for as long as 50 years or more.

Following are the bulk consumers of HDPE/LDPE pipes and fittings in India: Central public works departments, State public works departments, Housing Boards, Urban development authority like DDA, M.E.S., Municipal Boards, Water Works and district boards, Department of atomic energy, Various Jal Nigam, Public Health departments, Process Industries and Power Houses etc.

The main objectives of the use of plastics in agriculture are to increase the cultivated area; to improve the environment of the crop, thereby increasing quality and productivity; and to facilitate the transport and storage of the produce. In the broad sense, uses of plastics in agriculture may be classified into two main groups. The first group is much interesting which is for water management and allied areas like lining of reservoirs, ponds, canals; mulching; storage and shading areas on a large scale. The other group includes the application of plastics to replace traditional materials used in agriculture.

### MARKET SURVEY

Plastics, a material of the new generation, has been growing up faster than was expected since the 1980s. With restrictions on the use of wood to conserve forests, its importance has grown phenomenally. Because of its light weight, ease in maintenance and natural sparkle, it is substituting not only wood but also metals and glass. The automobile industry, the white and brown goods and the packaging industries, all offer expanding prospects.

Polymers are classified into thermoplastics and thermosettings. Thermoplastics include elastomers (unvulcanised), polyvinyl chloride (PVC), polyethylene (PE), polystyrene (PS), polyurethane (PU) and other resins. Thermosettings include elastomers

(vulcanised), polyethylene (crosslinked), phenolics, alkyds, polyesters.

The industry has expanded along with expansion of diverse applications areas such as packaging, extrusions, blow mouldings and industrial mouldings for automobiles, telecommunications, white goods. User segments include electrical appliances, domesticware, leatherite, decorative laminates, fittings and fixtures, construction industry (extrusions), automobile components, machinery and equipment, water tanks, pipes and fittings, drink bottles, medical appliances, weather protection. The opportunities are also opening up with the expansion and sophistication of food processing, automobiles, entertainment electronics and appliances. Besides these, industry's contributions have been vital in areas of rural electrification, telecommunication, horticulture, medicare, apart from a perceptible change in living styles and standards.

Polymers have found uses in all spheres of life with demand for better materials, greater functional utility, more economical packaging and versatile and durable all-weather products. Illustratively, the hilly regions of east India, or the drought prone districts of Rajasthan, Gujarat and Tamil Nadu demand moulded tanks in thousands.

**Cost Estimation**

Capacity	: 4.80 MT / Day
Plant & Machinery	: Rs. 112 Lakhs
Cost of Project	: Rs. 400 Lakhs
Rate of Return	: 38 %
Break Even Point	: 44 %

**HYDROGEN PEROXIDE  
(Anthraquinone Autoxidation Process)**

Hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>) is widely used in almost all industrial areas, particularly in the chemical industry and environmental protection. The only degradation product of its use is water, and thus it has played a large role in environmentally friendly methods in the chemical industry. Hydrogen peroxide is produced on an industrial scale by the anthraquinone oxidation (AO) process. However, this process can hardly be considered a green method. It involves the sequential hydrogenation and oxidation of an alkylanthraquinone precursor dissolved in a mixture of organic solvents followed by liquid-liquid extraction to recover H<sub>2</sub>O<sub>2</sub>. The AO process is a multistep method that requires significant energy input and generates waste, which has a negative effect on its sustainability and production costs.

The transport, storage, and handling of bulk H<sub>2</sub>O<sub>2</sub> involve hazards and escalating expenses. Hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>) is the simplest peroxide (a compound with an oxygen-oxygen single bond). It is also a strong oxidizer. Hydrogen peroxide is a clear liquid, slightly more viscous than water. In dilute solution, it appears colorless. Due to its oxidizing properties, hydrogen peroxide is often used as a bleach or cleaning agent. The oxidizing capacity of hydrogen peroxide is so strong that it is considered a highly reactive oxygen species. Hydrogen peroxide is therefore used as a propellant in rocketry. Organisms also naturally produce hydrogen peroxide as a by-product of oxidative metabolism. Consequently, nearly all living things (specifically, all obligate and facultative aerobes) possess enzymes known as catalase peroxidases, which harmlessly and catalytically decompose low

concentrations of hydrogen peroxide to water and oxygen.

**USES**

Hydrogen Peroxide is used primarily in paper pulp bleaching, as an oxidizing agent in the chemical industry, in the disinfection of food packaging, and in cleaning formulations for its bleaching and disinfectant properties. Hydrogen Peroxide is a highly versatile chemical used in various industries for bleaching, chemical synthesis, environmental control/effluent treatment, sterilization etc. The single most important constituent of Hydrogen Peroxide is the "active oxygen" that it provides in the aforementioned end-uses. The "active oxygen" is obtained by the controlled decomposition of Hydrogen Peroxide, with water as the by-product.

**MARKET SURVEY**

The demand for Hydrogen Peroxide is expected to remain on a robust growth trajectory due the environment-friendly nature of the product. This coupled with a strong demand in the end-user industries, mainly paper and textile is expected to lead to firm trend. But capacity enhancement globally limits the upward move.

Hydrogen peroxide is the most widely preferred bleaching and neutralizing agent. It finds major applications in paper and pulp, followed by cotton textiles etc. Besides, the demand growth is strong for water treatment applications. The biggest advantage of hydrogen peroxide is its environmental safety. As a result, hydrogen peroxide finds increasing applications in many other segments including electronics, mining, disinfection, water treatment etc. Oflate, HPPO (Hydrogen Peroxide to Propylene Oxide) technology, jointly developed and commercialized by BASF and DOW, wherein Hydrogen Peroxide is used to produce Propylene Oxide is gaining momentum.

**Cost Estimation**

Capacity	: 40 MT / Day
Plant & Machinery	: Rs. 2540 Lakhs
Cost of Project	: Rs. 3830 Lakhs
Rate of Return	: 18 %
Break Even Point	: 40 %

**PET BOTTLE RECYCLING**

Polyethylene terephthalate or PET (also known as PETE) is one of the most common types of plastic. Most single-serve plastic bottles, including those for water, soft drinks and juices, are made with PET. Designated by the recycling code "1,". This symbol is nothing to do with the single use or repeated use of PET bottle. Being extremely light, PET bottles help to reduce the emission of contaminants during their transport. Since they require less fuel during transport, they also help saving energy. PET is globally recognized as a safe, recyclable packaging material.

PET is the main constituent in a variety of consumer and industrial products including plastic fibers, videotape, audiotape, film, engineered resin, food containers. Although the percentage of refillable PET beverage containers increases all over the world, the majority of PET bottles worldwide are one-way bottles which are discarded after use. PET-bottles contribute increasingly to the generation of waste and litter especially in developing countries.

So, it is very necessary to recycle of PET-bottles to saves 65% of the energy for primary PET-production and also it offers jobs and income for low income

*Continue on page 14*



## BOOKS ON CULTIVATION OF HERBS/MEDICINAL AND AROMATIC PLANTS

### HERBS CULTIVATION & MEDICINAL USES



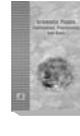
This book contains the Cultivation of different herbs with coloured photographs of various herbal plants. The book also includes the habitat, constituents, action and use in Ayurveda, Siddha and Unani medicines. ₹ 975/- US \$100

### HAND BOOK ON HERBS CULTIVATION AND PROCESSING



The book covers systematic account of most plants used in medicines. This is an indispensable book which provides cultivation techniques of various herbs with their processing. The text of each plant is divided in to two portions; the first devoted to the description to the species, its localities and other purely botanical matter and the second to the general character, composition, properties which are employed in medicines otherwise. ₹ 875/- US \$100

### Aromatic Plants Cultivation, Processing And Uses



In recent years, there has been a tremendous growth of interest in plant based drugs, pharmaceuticals, perfumery products, cosmetics and aroma compounds used in food flavours and fragrances and natural colours in the world. There is a definite trend to adopt plant based products due to the cumulative derogatory effects resulting from the use of antibiotic and synthetics and except for a few cultivated crops, the availability of plant based material is mainly from the natural sources like forests and wastelands. ₹ 975/- US \$100

### Cultivation and Processing of Selected Medicinal Plants



Ayurveda, the well known indigenous system of medicine, is still regarded as a well organised traditional health care for large sections of rural as well as urban population of India. The medicinal plants sector at present is not well organised and needs special attention. Although different Ministries and Department in the Government sector and NGOs and individuals in the private sectors are making their efforts in different directions, yet there is a need to co-ordinate any systematize. The present book covers cultivation

practices of selected commercially important medicinal plants with their processing details and uses. The book is very useful for medicinal plants growers, professionals, researchers, entrepreneurs and agriculture universities. ₹ 1175/- US \$125

### Compendium Of Herbal Plants



Herbal plants have been used for medicinal applications from earliest time, when man began caring for his body and health. Ayurved, Siddha, Unani and Homeopathy are largely based on the plants. The emphasis of development of new biologically active molecule has been gradually replaced by use of total herbs as medicine and food supplements. Now herbal based products has very good present and future prospects in International market. The present book throw lights on hundreds of herbal plants with their photographs, which has good medicinal values. This is very useful book for agriculture universities, researchers, cultivators, ayurvedic pharmacies etc. ₹ 975/- US \$100

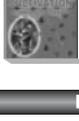
### The Complete Technology Book on Flavours, Fragrances, and Perfumes



Many studies have been carried out on fragrances, flavours and perfumes worldwide. These products have important commercial value not only in India but in all over the world. Perhaps the most interesting of the last few years in the fragrance and flavour fields are the many compounds described in this book. They may be used to engender or augment flavours in

foodstuff, chewing gums and medicinal products like mouthwash and toothpaste. ₹ 1675 US \$150

### HERBS CULTIVATION & Their Utilization



India is one of the leading Herbs producer and exporter in the world. This book covers the comprehensive information on Herbs Cultivation & their utilization. ₹ 800/- US \$100

### MEDICINAL PLANTS Cultivation & Their Uses



The book covers different Parameters of Medicinal Plants Cultivation and various ways of their uses. It covers Medicinal Plants containing alkaloids, steroids, flavonoids, glycosides, terpenoids, additives and other active metabolites. ₹ 975/- US \$100



### CULTIVATION AND UTILIZATION OF AROMATIC PLANTS

Aroma has played a vital role, directly as well as indirectly, in the life of human beings since its appearance on the earth as a result of evolution. India, Egypt and Persia were amongst the first countries to have conceived the process of distillation of essential oils. The aim of publishing this book is to provide multidisciplinary information on aromatic plants. ₹ 1100/- US \$125

## BOOKS ON ELECTROPLATING, ANODIZING, PHOSPHATING, POWDER COATING

### Electroplating, Anodizing & Metal Treatment Hand Book



Electroplating & Metal finishing both are art and science. This book is concerned with chemical, physical, electromechanical and Electroplating processes. Electrodeposition of metal is a very significant industrial process. A large number of metals are electrodeposited on metals and nonmetals. The general principles, processes preparatory to heating like degreasing, cleaning, pickling etc. are all delineated. This

book comprises various formulae of bath solutions, current density, deposit thickness, manufacturing processes, various ingredients used in Electroplating and other plating processes. ₹ 1475/- US \$150

### The Complete Technology Book on ELECTROPLATING, PHOSPHATING, POWDER COATING AND METAL FINISHING



There is hardly any techno-industrial activity which is as popular, as useful, as universal as employment oriented as the practice of plating and metal finishing. It exists in cottage industries, small scale industries or even medium scale and large scale industries. Electroplating and Metal Finishing concerns itself with the development and applications of processes and plants for the deposition of metals, alloys, composites and non-metallic coatings. These coatings are used for decorative, protective and functional applications. Most of the recent developments are with respect to such coatings. Components are designed on grounds of weight savings and cost savings. Metal finishing has now come to be known as "Surface Engineering." In addition to the decorative aspects, metal finishing aids the protection of metals and alloys from corrosion and rusting. A great potential exists for development of new materials involving, for example, coatings of metals composites, particle-incorporated anodic coatings and even films of sapphire-like materials, porous files of niobium etc. and coatings of refractory metals like molybdenum and tungsten. Industries in developing countries like India have to be increasingly aware of the need not only for upgradation of existing technologies but also for indigenisation of new technologies on a time-bound basis. ₹ 1100/- US \$125

## BOOKS ON STEEL/ALUMINIUM

### The Complete Technology Book On HOT ROLLING OF STEEL



Although the cold rolling of non-ferrous materials has been practiced since the fourteenth century, the hot rolling of steel was begun in the latter half of the seventeenth century or just over 300 years ago. The subject of hot rolling is broad enough even if confined solely to the deformation processes themselves. However, many of the problems occurring in hot rolling originate in earlier processes, such as casting, soaking and the conditioning and reheating of semi finished products.

For this reason, it was felt desirable to discuss these topics in some detail in this book. ₹ 1575/- US \$150



### Steel Rolling Technology Handbook

The steel industry has had a long history of development, yet, despite all the time that has passed, it still demonstrates all the signs of longevity. New ideas continue to revolutionize the steel-producing process today as much as they did a hundred years ago. The present book covers latest technology of steel rolling, which will give a new path to entrepreneurs and existing units. ₹ 1100/- US \$125

### THE COMPLETE TECHNOLOGY BOOK ON ALUMINIUM AND ALUMINIUM PRODUCTS



Aluminium, the second most plentiful metallic element on the earth, became an economic competitor in engineering applications as recently as the end of 19th century. It was become a metal for its time. Aluminium possesses many characteristics that make it highly compatible with recycling. Aluminium is resistant to corrosion and it thus retains a high level of metal value after use, exposure, or storage. Once produced, aluminium can be considered a permanent resource for recycling, preferably in to similar products. The present book covers the need within the industrial and academic

communities for up-to-date information about production of aluminium and extrusion process due to the ever-increasing use of this technology. The book provides concepts in the different areas of extrusion technology. It is hoped that its presentation will be very helpful to new entrepreneurs, technocrats, research scholars, libraries and existing units. ₹ 1450/- US \$150

### The Complete Book On

### Ferrous, Non-Ferrous Metals with Casting and Forging Technology



The heat treatment of ferrous (steel) Metal is based on the physical metallurgical principles which relate processing properties and structure. In heat treatment, the processing is most often entirely thermal and modifies only structure. The principles which govern heat treatment of metals and alloys are applicable, of course, to both ferrous and non-ferrous alloys. However, in practice there are sufficient differences to make it convenient to emphasize as separate topics the peculiarities of the alloys of each class in their response to heat treatment. The Present book covers production processes, heat treatment and other valuable details of ferrous and non-ferrous metals. ₹ 1575/- US \$150

## WASTE MANAGEMENT

### PRODUCTS FROM WASTE INDUSTRIAL & AGRO WASTE



We have made a sincere effort to bring out this book which is a key to the gold-mine which can be obtained from waste. For the conservation of out environment and sustainable development, we have tried to bring about a solution. This book is a careful attempt in bringing together some selected articles from both

entrepreneurs and specialists on all that is possible in the field of waste management. We have also tried to chalk out all that can be done under the government policies and how constitution has tried to help in the conservation of environments. ₹ 975/- US \$100

### Modern Technology of WASTE MANAGEMENT



#### POLLUTION CONTROL, RECYCLING, TREATMENT & UTILIZATION

The utilization to resources and generation of waste is for waste is for beyond the limit that the biosphere was made to carry. Infact, man today is caught in the vicious circle of increasing wants, declining resources and increasing waste being generated by the industries and municipalities is posing a problem of enormous dimensions. The domestic and industrial effluents are contributing in enhancing this problem. It might become the biggest problem if it is not dealt with immediately. ₹ 975/- US \$100

### Medical, Municipal and Plastic Waste Management HANDBOOK



Waste management is one of the essential obligatory functions of the country. This service is falling too short of the desired level of efficiency and satisfaction resulting in problems of health, sanitation and environmental degradation. This book provides overview of the status of medical, municipal and plastic waste management. Treatment techniques includes sterilization, incineration and number of recycling methods. ₹ 1275/- US \$125

groups.

#### USES & APPLICATIONS

Recycled PET is converted into numerous products. The five major generic end-use categories for recycled PET plastic are: Packaging applications (such as new bottles), Sheet and film applications (including some thermoforming applications, such as laundry scoops), Strapping, Engineered resins applications (such as reinforced components for automobiles), Fiber applications (such as carpets, fabrics and fiberfill). There are a number of emerging technologies that are generically referred to as depolymerization processes.

#### MARKET SURVEY

The production of PET bottles has been on the rise mainly for beverage bottle use these past several years and is expected to increase further because of their convenience. Recycling of post-consumer PET bottles has been gaining great interests and several recycling methods have been proposed. The worldwide strong PET market (and recycling) growth is important. PET recycling seems feasible in two aspects: one is that is the market need and second this market need is just at the same direction with the environmental request to reduce the waste materials in the land fields or the waste in general.

Fibre industry is one of the fast growing end-use sectors and a major user of recycled PET in India.

During the last decade a steadily increasing number of products are made of bottle PET flakes. The very early started conversion of PET-scrap to staple fiber was later followed by increasingly higher performance products.

#### Cost Estimation

Capacity	: 4 MT /day
Plant & Machinery	: 53 Lakhs
Total Capital Investment	: 376 Lakhs
Rate of Return	: 47 %
Break Even Point	: 41 %

#### STARCH & ALLIED PRODUCTS FROM MAIZE WITH CO-GENERATION PLANT

Maize is third important cereal/crop after wheat and rice and has a great potential of processing due to its high nutritive value and commercial uses. Maize (also known as corn) is common name for a cereal grass widely grown for food and livestock fodder. The major maize growing states are Uttar Pradesh, Bihar, Rajasthan, Madhya Pradesh, Punjab, Andhra Pradesh, Himachal Pradesh, West Bengal, Karnataka and Jammu & Kashmir, jointly accounting for over 95% of the national maize production. Maize ranks with *wheat* and *rice* as one of the world's chief grain crops. *Starch* is produced from maize than any other crop.

Starch is a naturally occurring biodegradable polymer and readily available from agriculture. It is widely used in food and non-food applications and isolated from crops such as maize, potatoes, tapioca, rice and wheat. Starch is therefore an inexpensive and commodity material. For packaging use however, dry starch is not thermoplastic and its granular form is unsuitable for most uses in the plastics industry, mainly due to processing difficulties during extrusion or injection moulding.

#### USES

Maize starch is used in the textile industry as an adhesive to strengthen yarn and to improve its resistance to abrasion during weaving. It is used in finishing changing the appearance after it is bleached,

dyed and printed. It is used in printing of textiles to increase the consistency of the printing paste. It is used for glazing and polishing sewing thread. It is used as a thickener in improving the texture of many foods. Texture is a major factor in the acceptability and palatability of most food products. It is used for thickening sauces, gravies, puddings and pie fillings. Maize starch makes hard wheat flour softer, which is preferred for cakes. Cornstarch is used to give strength to ice-cream cones and sugar wafer shells. It is used as an inert ingredient in baking powder and in salad dressings. In paper industry it is used to increase paper strength, to increase stiffness and rattle of paper. Drugs and medicine are taken in small but accurate dose. This is done by their administration in the form of pills, which contain fillers. Starch is preferred because it is bland, odourless and easily capable of digestion. Starch is also used in foundry industry. The major use of raw starches as abrasives is in corrugated boards, laminated paperboard etc.

#### MARKET SURVEY

Market demand for starch is strongly and positively correlated with average per capita income. Starch extracted from different commodities has different properties. Many end users require specific kinds of starch for making their products, and therefore demand starch derived from specific commodities. India is the tenth largest producer with a production of 11.10 million MT from an area of 6.6 million ha.

Demand for starch is high from varied users like food, pharmaceuticals, textiles, paper, packaging etc. The demand is likely to increase to 186 lakh MT by 2013-2014. The trends in India indicate that coarse cereals are now increasingly used as industrial products such as starches. Efforts are required to develop high yielding varieties of coarse with desired characteristics for different uses and to explore new food uses. The growth of glucose industry is also understood to have grown more or less at the same rate. Further the capacity utilization on an average is also under stood to be at around 45% in case of glucose industry. With the increasing demand and with increasing capacity utilization, it is expected that the glucose production would also increase substantially in the future and thereby it would contribute to the demand for starch as well in the future. With such a growth, the demand for liquid glucose is also simultaneously increasing which account for a major consumption in the industry. There is larger amount of raw material available in India, which can exploit by manufacturing different available product in the maize.

All the products manufactured from maize are food base product so it has very good market demand now as well as it will be stay in future also due to rapid population growth. As a whole the project is good one.

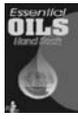
#### Cost Estimation

Capacity	
Starch	: 100 MT/Day
Dextrose Monohydrate	: 13 MT/ Day
Dextrose Anhydrous	: 10 MT/ Day
Sorbitol	: 17 MT /Day
Vitamin C	: 0.5 MT /Day
Gluten Feed	: 22.50 MT/ Day
Germ Oil	: 10.00 MT/ Day
Plant & Machinery	: Rs.1029 Lakhs
Cost of Project	: Rs.2807 Lakhs
Rate of Return	: 52 %
Break Even Point	: 30 %

**Continue on page 16**



## BOOKS ON ESSENTIAL OILS & PERFUMES



### Essential Oils Handbook

With the development of science and technology, essential oils are becoming popular due to its uses in the manufacturing of different products. This versatile book takes recourse to most pragmatic formulae on diversified essential oils. ₹1275/- US \$125



### The Complete Technology Book of Essential Oils (Aromatic Chemicals)

The book contains formulae, processes, test parameters of different types of essential oils derived from different natural sources. ₹1275/- US \$125



### Modern Technology of Perfumes, Flavours & Essential Oils 2nd Edition

This versatile publication takes recourse to most pragmatic formulae on diversified perfumery products, flavours, essential oils etc. Overall, the book furnishes complete formulae with processes/technicalities which are immensely innovative and profoundly utilitarian for new entrepreneurs as well as motivate the existing units in quality improvement and cost reduction. Flow diagrams for various methods of preparation are vivid representations of the process sequence. Sources of raw materials, plant and machinery are also given in the book. ₹975/- US \$100



### The Complete Technology Book of Herbal Perfumes & Cosmetics 2nd Revised Edn.

The versatile book takes recourse of pragmatic formulae of diversified herbal perfumes and cosmetics. Overall, the book contains formulae, processes, technicalities. ₹1275/- US \$125

## BOOKS ON AGRICULTURE

### The Complete Book on Jatropha (Bio-Diesel) with Ashwagandha, Stevia, Brahmi & Jatamansi Herbs (Cultivation, Processing & Uses)

Jatropha belonging to the family Euphorbiaceae is a multipurpose shrub or small tree of significant importance because of its several industrial and medicinal uses, where as Ashwagandha, Stevia, Brahmi and Jatamansi are the important herbs which have very good medicinal values. The present system of medicine is gradually gaining popularity mainly because of less or no toxic or side effects of herbal drugs. So, these herbs have very good future prospects globally. This book contains cultivation, processing and uses of Jatropha, Ashwagandha, Stevia, Brahmi and Jatamansi. ₹1500/- US \$150



### The Complete Book on Coconut & Coconut Products (Cultivation and Processing)

Coconut plays an important role in the economic, social and cultural activities of millions of people in our country. India is a major producer of coconut in the world. Coconut provides food, edible oil, industrial oil and health drink to humanity. All parts of coconut tree is useful in one way or other and the crop profoundly influences the socio-economic security of millions of farm families. The present book contains the methods of cultivation and processing of coconut. ₹1100/- US \$125



### Tropical, Subtropical Fruits & Flowers Cultivation

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. ₹1075/- US \$125



### CULTIVATION OF FRUITS VEGETABLES AND FLORICULTURE

The study of fruit and vegetable production, is a subject of enormous scope. It involves the integration of wide spectrum of disciplines. As the new technologies and developments become available, cropping system and production practices changes. Many principles and practices, that were common a few years ago may no longer be current. The purpose of this text is to provide complete, reliable, up to date information on the various phases of fruit and vegetable production in a systematic and convenient manner. Floriculture covers all the aspects related to the production and use of flowers and ornamental plants, flower seeds, bulbs etc. ₹1100/- US \$125



### Cultivation of Tropical Subtropical Vegetables, Spices, Medicinal and Aromatic Plants

Plant species grown in tropical countries on small scale family farms or commercial farms, to provide food for humans or livestock, in dry or humid regions are highly abundant and taxonomically diversified. Vegetables comprise of a large number of plants, mostly annual, of which different parts like leaf, stem, flower bud, flower, fruit, root etc. are eaten. They are rich in nutrients and are essential items of a balanced diet. Vegetables are called protective food as their consumption can prevent several diseases. ₹1075/- US \$125



### Handbook on Mushroom Cultivation and Processing (with Dehydration, Preservation and Canning)

Mushroom has been attracting attention of mankind since ancient times and use of mushroom, as food is as old as human civilization. It is very rich in protein, vitamins and minerals. Unfortunately, it is realised that mushrooms did not receive universal acceptance over the years since a number of naturally growing mushrooms are poisonous. In the new situation cultivated edible mushrooms are totally safe for human consumption. This book contains cultivation, processing, dehydration, preservation and canning of various species of mushrooms. ₹1275/- US \$125

## BIOTECHNOLOGY

### BIOTECHNOLOGY Hand Book

Biotechnology and cell molecular biology have developed and emerged in to a major discipline during last two decades. This is an unique book, concise, upto date resource offering an innovative, adoptive and valuable presentation of the subject. It covers all important biotechnological topics of industrial and academic interests. ₹1100/- US \$125



### Enzymes Bio-Technology Hand Book

Enzymes are the focal point of biotechnological processes. Without them biotechnology as a subject would not exist. In this book you can find all the basic information required on the fundamental aspects of the enzymes, their chemistry, biochemistry as well as detailed information of their applications a wide variety of industrial processes etc. ₹1100 US \$125



### Hand Book on BIO GAS and It's Applications

Energy from different sources, especially biomass has assumed great importance in development and under developed countries of the world. Most of the energy needed for cooking space heating and lighting etc. in rural area of such countries comes from biomass which have been used since long times. The book contains technology of bio-gas generation with its applications. ₹975/- US \$100

### The Complete Technology Book on VERMICULTURE AND VERMICOMPOST

Vermiculture is a new development in biotechnology based product which helps to solve the partially pollution problems. Vermiculture is a mixed culture which contains on specific culture of soil bacteria mixed an effective strain of earth worms. All over world, from developed countries like USA, U.K, Russia and Japan, as well other to developing countries like China, Mexico, Brazil and Philippines etc, Earthworm culture, popularly called vermiculture is being widely practiced in big commercialised manner. In India too some companies have come up, but by and large general awareness remains lacking, despite fact that several non Governmental Organisations and Governmental Institution are trying hard to popularise the subject for adoption. ₹750/- US \$100



### The complete Technology Book on BIO-FERTILIZER AND ORGANIC FARMING 2nd Edition

Bio-Fertilizers are natural fertilizers which are microbial inoculants of bacteria, algae, fungi alone or in combination and they augment the availability of nutrients to the plants. The use of bio-fertilizers, in preference to chemical fertilizers, offers economic and ecological benefits by way of soil health and fertility to farmers. In view of the immense potential of bio-fertilizers as a supplementary nutrient source for the crops, this book on bio-fertilizer technology covers all major types of bacterial fertilizers. Rs. 1400/- US \$150



### Handbook on Plants and Cell Tissue Culture

Plant cell tissue culture is a rapidly developing technology which holds promise of restructuring agricultural and forestry practices. During the last two decades cell culture have made considerable advanced in the field of agriculture, horticulture, plant breeding, forestry, somatic cell genetics, phytopathology etc. The present book discuss about the methods of plant cell tissue culture. ₹1275/- US \$125



### The Complete Book on Biotechnology Based Bulk Drugs

The development of biotechnology is taking place in almost all fields of human life. The recent advances in the field of basic genetics have opened up new vistas, potentials and possibilities. The present book contains process of biotechnology based bulk drugs like penicillin, B lactam Antibiotics, Aminoglycoside Antibiotics, Peptide Antibiotics, Anti Cancer Agents, Lincomycin etc. This is very useful book for entrepreneurs, technocrats, research scholars, libraries etc. ₹1050/- US \$125



### Plant Bio-Technology Hand Book

Micro propagation is a fast and suitable method for producing large number of similar plants of germplasm with in a short period. The book contains measurement of plant cell growth, plant tissue culture, initiation of embryo genesis in suspension culture, micro propagation in plants, genetic transformation of plants, isolation of plant DNA and many more. ₹1100/- US \$125



### Handbook on FOOD BIOTECHNOLOGY

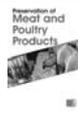
Biotechnology concerns the practical application of organisms or their components. Historically, Bio-technology was an art, involved in the production of wines, beers and cheese. Now a days it involves a series of advanced technologies spanning biology, chemistry and process engineering. The present book is an attempt towards the entrepreneurs to motivate them to invest in organic farming and processing in sophisticated manner by application of Bio-technology. ₹1100/- US \$125



## MEAT/FISHERIES

### The complete Book on Meat Processing And Preservation with Packaging Technology

Meat, an excellent source of protein, iron and B vitamins, was processed as early as prehistoric times, probably by drying in the sun and later by smoking and drying over wood fires. Today, meat is processed with salt, colour fixing ingredients and seasonings in order to impart desired palatability traits to intact and comminuted meat products. ₹975/- US \$100



### Preservation of Meat and Poultry Products

Food preservation is a method of maintaining foods at a desired level of properties or nature for their maximum benefits. Different preservation techniques are being developed to satisfy current demands of economic preservation and consumer satisfaction in nutritional and sensory aspects, convenience, absence of preservatives, low demand of energy and environmental safety. The present book contains various processes of meat and poultry preservation. ₹1100/- US \$125



### Handbook of Fisheries and Aquaculture Technology

The fishery sector is important from Indian economy view point as it contributes a source of income to a number of fishermen and has huge export potential. A wide range of aspects of fresh water aquaculture such as selection of species of fish and shellfish, construction and preparation of various types of fish ponds, control of aquatic weeds and predators, production of seed fish and their transportation, fish nutrition and fish diseases and their control pertaining to composite fish culture, air breathing fish culture etc. have been dealt with a length for easy adoption. ₹1100/- US \$125

**STARCH & STARCH DERIVATIVES  
(Starch, Glucose, Maltodextrin,  
High Maltose Syrup & Powder,  
Dextrose Monohydrate, Dextrose  
Anhydrate & Sorbitol)**

Maize (*Zea mays*) is classified into dent, flint, waxy, sweet and pop corn categories. Dent corn also known as field corn, containing both hard and soft starch, becomes indented at maturity. Flint corn having hard, horny, rounded or short and flat kernels; with the soft and starchy endosperm is enclosed by hard outer layer. Both of these varieties are used for industrial purposes. Popcorn has small pointed and rounded kernels with very hard endosperm which on exposure to dry heat popped or evereted by the expulsion of the contained moisture and forming a White starchy mass many times the size of the original kernel. Sweet corn is distinguished by kernels containing a high percentage of sugar in the milk stage and therefore suitable for table use.

Indian maize has white, red, purple, brown or multicoloured kernels and is characteristically dent corn. The dent corn is useful for starch processing by wet milling method. Among all cereals, maize occupies the fifth largest in area, fourth largest in output and third largest in yield. India is the tenth largest producer with a production of 11.10 mMT from an area of 6.6 million ha. The average yield in India is 1.77 MT/ha which is very low as against 7 MT/ha in temperate areas of developed economies and 3.8 MT/ha of global average.

**USES**

Maize starch chemical formula (C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)<sub>n</sub> also know as Corn starch or flour is a fundamental ingredient in most of the packaged food and industrial products; it is extracted from the corn kernel and has a distinctive appearance and feed. Maize starch in natural, modified, pregeletanised and dextrinised forms provides viscosity, texture and other desired properties to all types of food & paper, products from canned chilled frozen to microwaveable goods, dry mixes and extruded snacks. Practically every industry in existence uses starch or its derivatives in one form or another.

**MARKET SURVEY**

Starch is not a uniform commodity, however. It is a heterogeneous commodity used in the manufacture of myriad food and non-food products. Market demand for starch is strongly and positively correlated with average per capita income. Starch extracted from different commodities has different properties. Many end users require specific kinds of starch for making their products, and therefore demand starch derived from specific commodities. If the kind of starch they require is not available, then starch may undergo further processing and modification. The demand for "modified" starch is increasing rapidly but is still far below that of "native" starch (also called "primary" starch) in developing countries. Further, starch quality may be affected by post-harvest practices. India is the tenth largest producer with a production of 11.10 million MT from an area of 6.6 million ha.

The quantity of starch consumed in food and non-food products in a country is closely associated with the level of economic development and income of that country. As per capita incomes rise, consumers demand a more varied set of food and manufactured products that use starch in their making. Thus, there is a close and positive relationship between income

and quantity of starch demanded.

**Cost Estimation**

Capacity	
Maize Starch	: 100 MT/Day
Liquid Glucose	: 50 MT/Day
Malto Dextrin Syrup	: 20 MT/ Day
Malto Dextrin Powder	: 10 MT/ Day
Dextrose Monohydrate	: 50 MT/ Day
Dextrose Anhydrous	: 30 MT/ Day
Sorbitol	: 50 MT /Day
Cattle Feed as By Product	:150 Mt/ Day
Plant & Machinery	: Rs.145 Crores
Cost of Project	: Rs.213 Crores
Rate of Return	: 44 %
Break Even Point	: 31 %

**GLAZED WALL AND FLOOR TILES**

Tile is a manufactured piece of hard-wearing material such as clay, ceramic, stone, metal or even glass. It is a surfacing unit, used for covering roofs, floors, walls and countertops. Ceramic and porcelain tiles are manufactured by pressing clay and other materials into shape and firing it at high temperatures, giving it the hardness it is known for. The bisque (body) of a tile may then be glazed, or left unglazed depending on its intended use.

Tile is a popular flooring choice for many reasons. Wide varieties of tile offer colors, patterns, and textures that enhance any interior or exterior. Tile for flooring and wall covering is also one of the earliest manmade building materials and endures all kinds of wear while retaining their beauty. The two distinctive types of kiln fired tile are ceramic and porcelain. The basic difference between porcelain and ceramic is the end result out of the kilns. Ceramic is the most common type and is made by baking clay in a conventional kiln at average temperature. However, porcelain tiles are made from fine grain clay fired at an extremely high temperature. As a result they are highly resistant to staining and wear.

**USES & APPLICATIONS**

Glazed Ceramic wall and floor tiles look great in all types of spaces, indoor and outdoor, public and private.

Ceramic Glazed tiles are made of porous body with a coating of white or colored Glaze. These are used extensively in the Bathrooms, Kitchen in modern buildings and in Hospitals and Analytical Laboratories, Toiletries attached to Railway platforms. This is because of this products have properties like good resistance to weather and chemicals, having high strength, hard, glossy surface with different colors and pleasing appearance. In the near future the chances for replacing these items by other materials look very bleak. These tiles are rather cheap, easy to clean, have more life and are available in pleasing colours.

**ADVANTAGES**

Easy to Clean and Hygienic, Anti-Allergenic, Low Maintenance, Resistance and Durability, Traffic, Eco-Sustainable, Non-Slip, Versatility, Warmth, Mixing and Matching (with Other Materials) and Luminosity.

**MARKET SURVEY**

The markets of ceramic glazed Tiles are very bright since its demand is increasing at a faster rate. The reasons are not far to seek. The improved living standard coupled with good economic situation along

**Continue on page 18**

**BOOKS ON PULP, PAPER CONVERSION, PRINTING AND PACKAGING**



**Hand book on PRINTING TECHNOLOGY (Offset Gravure Flexo Screen)**

The developments in science and technology have revolutionized the printing industry in the progressive countries of the world. There has been a considerable compact of this progress in the Indian Printing Industries. ₹1275 US\$125



**The Complete Book on Printing Technology**

This is the age of hi-fi, jets and computers. Rapid advancements in science and technology have made their impact on the printing industry of the world too. The old techniques of printing have become obsolete and made way for the new technology. The book contains the latest printing processes like web, gravure, flexo, security and offset printing. ₹1100 US\$125



**Modern Technology of Pulp, Paper And Paper Conversion Industries**

The paper conversion sectors are assuming increasingly important place in the life of every nation. Conversion technology is being evolved continuously for having better conversion, handling, transportation, preservation and usage of materials. Paper and pulp industry plays a vital role towards conversion. In view of the close linkage between paper and conversion industry we have tried to come out with this unique book containing relevant and useful information in both these industries. We have tried to make it most exhaustive first giving details, then presenting and dividing in different chapter to understand better. Thus we have tried to fill the vacuum that existed fill now. ₹1000 US\$100



**The Complete Technology Book on Pulp & Paper Industries**

The pulp and paper industry continues to expand at a phenomenal rate. This imposes a difficult problem of selection. Since the amount of material that can be included in a single volume is obviously limited. Careful thought has been given to the selection with the purpose of presenting that material which will be of the greatest interest to the greatest numbers. ₹1100 US\$125



**HANDBOOK ON Modern PACKAGING INDUSTRIES**

The book has been written for the benefit of entrepreneurs who can not invest large amounts and case has been taken to present the matter in a very simple and comprehensive language so that person without much technical background can grasp the subject easily. ₹1675 US\$150



**Screen Printing Technology Hand Book**

This method of Printing has achieved wide spread popularity since the second world war, although the basic ideas in this process were used by the Chinese centuries ago. The present book contains latest technologies of screen printing along with machinery photographs, addresses of suppliers of machinery and raw materials. ₹1000 US\$100

**BOOKS ON TEXTILE PROCESSING, SPINNING, WEAVING, DYES, PIGMENTS, DYE INTERMEDIATES AND STARCH**



**The Complete Technology Book on Textile Spinning, Weaving, Finishing & Printing**

The Book is based on the latest technology involved in textile industry. It contains processes of textile spinning, weaving, finishing and printing. ₹1100 US\$125



**HANDBOOK ON NATURAL DYES FOR INDUSTRIAL APPLICATIONS**

This is a single book which has information related to extraction of dyestuffs from 19 common flowers, weeds, bark or leaves and its application on cotton silk and wool fabrics for textile industry. The book describes the step wise methodology of extraction, mordanting and dyeing with photos of the actual plants part used for extraction of Natural dye. Shade cards have been incorporated so that the full gamut of colors can be visualized from each dyestuff. The Author Dr Padma S Vankar, works as Principal Research Scientist, in Facility for Ecological and Analytical Testing( FEAT) at Indian Institute of Technology, Kanpur. She has been engaged in the screening and characterization of newer natural dyes for the past 10 years. She also works in the area of designing synthetic strategies for Ecofriendly dyes using microwave heating system. Using innovative technology for natural dyeing has been her main emphasis. The author has conducted several workshops throughout India in order to popularize natural dyeing. ₹1100 US\$125



**The Complete Technology Book on Textile Processing with Effluent Treatment**

The book covers complete details of textile processing with the standard parameters of effluents treatment which is the burning problem for the textile processors. ₹1000 US\$100



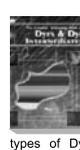
**Modern Technology of TEXTILE DYES & PIGMENTS**

This is one of the best books on Textile Dyes and Pigments covering Formulae, Manufacturing Processes of Various Textile Dyes and Pigments. This book will be very helpful to new entrepreneurs, researchers, general information seekers and libraries or those who want to diversify in this field. ₹1100 US\$100



**The Complete Technology Book On STARCH AND ITS DERIVATIVES**

Starch is a group of polysaccharides, composed of glucopyranose units joined together by glucosidic linkages. Industrially, starch is broadly divided in to two types of viz, natural and modified. The characteristics of the natural starches are changed by chemical or enzymatic reaction and the products of these reactions are termed modified starches. Starch can be obtained from maize, sorghum, roots and tubers such as tapioca, arrow root, potatoes etc. ₹1100 US\$125



**The Complete Technology Book on Dyes & Dye Intermediates**

Due to increasing growth of Textile industries, demand of Dyes and Dye Intermediates are also increasing very fast in domestic as well as in global market. The book stress on syntheses of different types of Dyes and Dye Intermediates. The formulae and processes has been described in very proper way. ₹1100 US\$125



**Natural Fibres Handbook with Cultivation & Uses**

The present book is the first of its kind which contains process and other parameters for the manufacturing of fibres arrives from natural sources. Due to eco-friendly nature there is very good domestic and export potentiality of natural fibre. ₹1275 US\$125



**The Complete Book On Natural Dyes and Pigments**

Due to pollution problems in synthetic dyes and pigments industry, the whole world is shifting towards the manufacturing of natural dyes and pigments. The present book contains techniques of producing different natural dyes and pigments, which has huge demand in domestic as well as in foreign market. ₹1100 US\$125

**BOOKS ON SOAPS, DETERGENTS AND COSMETICS**

**Modern Technology of Soaps, Detergents & Toilettries**



(With Formulae & Project Profiles) 3rd Edn. The book contains the formulae of different types of soaps, detergents (cake, powder and liquid) toilettries, analytical testing method, quality control of finished products, packing criteria of cosmetics and toilettries alongwith project profiles and addresses of raw material, plant and machinery suppliers. ₹750 US\$100



**The Complete Technology Book on DETERGENTS**

The Indian detergent industry is about three decades old. An interesting and unique feature of detergent industry in India is the existence of non-power operated units which do not use any electrical power for the production of detergent powder. This text emphasizes practical aspects of detergent production with latest development and other special products based on synthetic surfactants. This book is an attempts to fill the need of those desirous of starting detergent industries in small scale sector. ₹800 US\$100



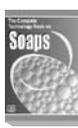
**Soaps, Detergent and Disinfectants Technology Handbook**

It has been said that soap and detergent consumed in a country is a reliable measure of its civilization. There was a time when these products were luxury, now it is a necessity. The present book contains formulae, processes of different types of soap, detergents and disinfectants. These products have good demand in domestic as well as in international market. So there is very good scope for new entrepreneurs to venture into this field. This book is very useful for entrepreneurs, technocrats and for those who to diversify to this field. ₹1275 US\$125

**Hand Book on SOAPS, DETERGENTS & ACID SLURRY**



3rd Revised Edn. The Soap and Detergent industry is profoundly lucrative with splendid market potential as well as bright future scope. In order to meet the requirement of market demand, many more new units are recommended to be established on small and cottage scale. The present book has been written keeping in view the basic difficulties of the entrepreneurs. Nominal investment is required for this industry which comprises simple methods of processing for manufacturing of various types of soaps, detergents and acid slurry. ₹1575 US\$150



**The Complete Technology Book on Soaps**

Being consumable in daily life soap industry is profoundly lucrative with splendid market potential. This industry has very good future prospects. Many more new units are recommended to meet the requirement of Indians demand. The book covers formulae, processes of different type of washing and toilet soaps. ₹800 US\$100



**Modern Technology of COSMETICS**

The manufacture of Cosmetics is by no means new methods adopted were used several decades ago. The attempt made in this book is to improve the older methods and provide the latest formulae and techniques to manufacture the different cosmetics like Hair Preparations, Face Powders, Toilet Powders, Cosmetics for the Skin, Creams, Lotions for various uses, Lipistics, Shampoos, Dandruff Tonics, Nail Polishses etc. ₹1100 US\$125

**BOOKS ON WOOD, LEATHER, GLASS & CERAMICS**

**The Complete Technology Book on Wood and Its Derivatives**



The developments in wood industry in the country are mainly attributed to the pioneering work carried in the field of wooden products. There are lot of chemicals and other products extracted from wood. This book contains processes of various wooden products and its derivatives. ₹1100 US\$125



**LEATHER PROCESSING AND TANNING TECHNOLOGY HANDBOOK**

The profitability of leather processing is dependent on a good product and requires the consistent implementation of well under stood process. This book covers latest techniques of leather processing and tanning, so that the industries involved in this process and new entrants can grow up with new technology. Leather tanning as an industry has been subjected to evolutionary forces as technology makes use of new materials, technique and concepts. ₹1400 US\$150



**The Complete Book on Glass And Ceramics Technology**

The technology of glass and ceramics are nowadays wide field involving a great variety of raw materials, manufacturing processes, as well as products, and of considerable diversity in theoretical background. The manufacture of traditional glasses and ceramics is based on the utilization of the most widely occurring natural raw materials. The efforts has been made to provide maximum and latest information about processing of glass and ceramics and their products in this book. ₹1275 US\$125

with supporting Govt. policies for housing sector speak itself for the demand for these products. Side by side population growth is also creating a positive demand position of these products. These items form an essential and integral part of consuming sector like housing, educational and research institutions, hospitals, Industries, hotels, restaurants, cinema halls and other public places. The demands of these products also increase by the need of renovation works of the old above similar buildings. The housing Development Finance Corporation and other Govt. Corporations and Banks for financing housing will go a long way for the demand of these products. This resulted in a sort of boom in the industry.

**Cost Estimation**

Capacity	: 6000 Sq Mt / Day
Plant & Machinery	: Rs. 1463 Lakhs
Cost of Project	: Rs. 3011 Lakhs
Rate of Return	: 81 %
Break Even Point	: 38 %

**POLY ALUMINUM CHLORIDE**

PAC is basic aluminium chloride, polybasic aluminium chloride, aluminium hydroxychloride, aluminium oxychloride, and aluminium chlorohydrate. The presence of polymeric, aluminium-containing cations, the distribution of which can differ greatly, typifies PAC products.

Poly Aluminium Chloride (PAC) is a water-soluble inorganic macromolecule polymer that is intervenient with  $ALCL_3$  and  $AL(OH)_3$ . Its molecular formula is  $[AL_n(OH)_mNCL_6-NLm]$ . The m in the formula represents Polymerization and n for Neutralization. It is a type of vitreous solid with colors varying from yellow, light yellow, dark brown and heavy gray and has a strong bridgework absorbance. The basic difference between PAC and other traditional products is that the traditional ones are electropositive with small molecular and crystalloids. PAC has the structure of many hydroxyl Polymers with various different shapes. Its strengths are high speed deposition, wide range of PH value, does not cause harm to equipment, a great water purifier, clears up SS, COD, BOD, and heavy metal ions like AS with high efficiency.

Poly aluminium chloride is one of the significant inorganic flocculants. The most important inorganic flocculants are currently the trivalent salts of aluminum and iron as well as activated silica. Flocculants are used to optimize the separation of the solid phase from the liquid phase in aqueous suspension. These suspensions usually consist of organic or inorganic particles, which are of finely divided to colloidal consistency and are distributed in water as a dispersing medium. With smaller particles, the suspension is more stable i.e. the lower is the tendency for the particles to agglomerate and sediment. However, addition of a flocculant drastically increases the rate of particle sedimentation so that a clear, supernatant liquid is obtained. The settled sludge can then be filtered rapidly or centrifuged, resulting in a more efficient separation.

**ADVANTAGES**

PAC reacts faster than aluminium sulphate because of its polymeric structure which allows higher coagulation efficiency. The formed flocs are bigger which means a faster sedimentation. Moreover, PAC remains effective over a wider turbidity range and even at very low temperatures. Lower quantities of residual aluminium in water (compared with the analogous value with aluminium sulphate) reducing

consequently health problems (Alzheimer). Reduced cleaning frequency of the filters (longer runs in the sand filters). PAC consumes less alkalinity than the other coagulants. In most cases, there is no need of alkalinity addition for an effective flocculation, so additional pH correction chemicals aren't necessary. Lower doses are required for equivalent results in comparison with aluminium sulphate. PAC remains efficient over a larger pH range. Less sludge production compared to the other coagulants.

**USES & APPLICATIONS**

Polyaluminium chloride PAC as an alternative coagulant. Application of In-Line coagulation/Ultra filtration Process in Water Treatment. Coagulation of Wastewater Containing Reactive Dyes with the Use of Polyaluminium Chloride. Dosing Aluminium Floccing Agents. Microbial counts and pesticide concentrations in drinking water after alum flocculation of channel feed water at the household level. Using Polyaluminium Coagulants in Water Treatment and stabilization of formation of clays.

**MARKET SURVEY**

PAC has good performance coagulation, with high efficiency, rapid precipitation, suitable for a wide range of advantages. PAC has been gradually replacing the traditional flocculation trend. At present, the PAC domestic demand has shown a growth trend, this PAC to expand production and development of a broad market space, coupled with the PAC's extensive source of raw materials, the use of advanced production technology development and production of PAC's bright future.

Industries in particular generate enormous amount of wastes which can cause serious pollution in the environment. Water pollution mainly occurs due to the presence of dissolved inorganic materials, organic materials, other substances found in domestic and industrial wastewater and their subsequent products. The main objective of the wastewater treatment is to dispose the treated effluent without causing an adverse impact on the ecosystem of receiving water body and the compliance with stipulated norms and standards. Kanoria Chemicals & Industries Limited (KCI), one of the leading Indian manufacturers of chemical intermediates, announced the commissioning of its Poly Aluminium Chloride plant at the company's integrated Chlor-Alkali manufacturing unit in Renukoot, Uttar Pradesh. The unit has a capacity to manufacture up to 60,000 tonnes per year of Poly Aluminium Chloride, a specialty chemical for water treatment.

**Cost Estimation**

Capacity	: 1MT/Day
Plant & Machinery	: 17 Lakhs
Total Capital Investment	: 62 Lakhs
Rate of Return	: 50%
Break Even Point	: 45 %

**MISHRI (SUGAR CANDY)**

Candy Sugar, (or sweet diamonds as it is popularly called or mishri) is sparkling white big crystal sugar obtained by cooling supersaturated sugar solutions. Its large crystals not only are pure but are also very attractive. The English word "candy" derives from Arabic "qandi," meaning something made with sugar. Candy, specifically sugar candy, is a confection made from a concentrated solution of sugar in water, to which flavorings and colorants can be added. Candies come in numerous colors and

*Continue on page 20*

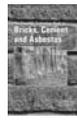


## BOOKS ON CONSTRUCTION MATERIAL



### The Complete Book on **Construction Materials**

The book provide wide coverage of building materials such as stone, bricks, lime, mortars, concrete, asbestos, gray iron, cast iron, steel castings, aluminium, wood, architectural paints and so many others with their applications in building construction. The book is very useful for all professionals related to construction field, technocrats, students and libraries. ₹1475/-, US\$ 150



### The Complete Technology Book on **Bricks, Cement and Asbestos**

Bricks, cement and asbestos have major role in building and road construction. The present book contains processes of different types of bricks making, cement manufacturing and production of asbestos. The book is very useful for new entrepreneurs, existing units, professionals, institutions related to building construction, research scholars etc. ₹ 1400/-, US\$ 150

## FORMULARY BOOKS



### **SELECTED FORMULARY HANDBOOK**

A man entering an industry soon finds that most of the products manufactured by his company are not synthetic or definite chemical compounds, but are mixtures, blends or highly complex compounds of which he knows little or nothing. The literature in this field, if any, may be meager, scattered or antiquated. The purpose of publishing this book is to provide proper formulations of most consumable products. The book is very useful for chemists, new entrepreneurs, existing units, technocrats and engineering students. ₹1475/- US \$ 150



### Selected Formulary Books on Inks, **Paints, Lacquers, Varnishes and Enamels**

A man entering an industry soon finds that most of the products manufactured by his company are not synthetic or definite chemical compounds, but are mixtures, blends or highly complex compounds of which he knows little or nothing. The literature in these fields, if any, may be meager, scattered or antiquated. The purpose of publishing this book is to provide proper formulations of most consumable products like Inks, Paints, Lacquers, Varnishes and Enamels. The book is very useful for chemists, new entrepreneurs, existing units, technocrats and engineering students. ₹1475/- US \$ 150



### Selected Formulary Books on Cosmetics, Drugs, **Cleaners, Soaps, Detergents Dentirices and Depilatories**

A man entering an industry soon finds that most of the products manufactured by his company are not synthetic or definite chemical compounds, but are mixtures, blends or highly complex compounds of which he knows little or nothing. The literature in these fields, if any, may be meager, scattered or antiquated. The purpose of publishing this book is to provide proper formulations of most consumable products like Inks, Paints, Lacquers, Varnishes and Enamels. The book is very useful for chemists, new entrepreneurs, existing units, technocrats and engineering students. Rs. 1500/- US \$ 150

## BOOKS ON INKS, GUMS & ADHESIVES, PAINTS, SURFACE COATING

### Modern Technology of **Printing & Writing Inks**

The Printing and Writing Ink Industries have grown significantly during the last decade. Particularly printing ink industry is characterised by exceeding high margin profit. Having in view we have published this book which will be mile stone for the entrepreneurs, existing units, libraries etc. The book contains formulae, processes and other related information of various printing and writing inks. ₹750/- US \$ 100



### Modern Technology of **PAINTS VARNISHES & LACQUERS** 2nd Edn.

Surface coating industry is one of the most popular industries. Paints, Varnishes and lacquers industry is gaining ground at a rapid pace in modern time accompanied with closed advance in surface coating technology. The book deals with fundamentals of paints, varnishes and lacquers, pigments, oils used in paints and varnishes, solvents, driers, plasticizers, additives for surface coating, various types of paint manufacturing etc. ₹1075/- US \$ 125

### The Complete Technology Book on **Printing Inks**

The beginning of ink making are something of a mystery. It is certain however, that the development of the art of writing proceeded the invention of ink by almost a thousand years. Prior to the invention of ink the ancients wrote with a pointed metal stylus on tablets of stone and clay. In this book an attempt has been made to bring together the useful manner as possible the fundamental Principles of ink making. The book contains formulae, processes and other relevant information of the manufacturing of different types of printing inks. ₹1000/- US \$ 100



### **Gums, Adhesives & Sealants Technology** With Formulae & Their Applications 2nd Rev. Edn.

Gums, Adhesives and Sealants are accupying by and large, a conspicuous plateau in the modern industrial world by virtue of their versatility in diverse fields of applications. This potentially useful book furnishes technical aspects of various types of gums, adhesives and sealants which are so useful to a new entrepreneurs or established one. The book delineates in detail formulae, processes of various gums, adhesives and sealants along with addresses of machinery and raw material suppliers. ₹1475/- US \$ 150

### Modern Technology of **SURFACE COATING** With Formulae & Their Applications

The development of science and technology revolutionized the surface coating industry in the progressive countries of the world. There has been considerable impact in this field. We have completely replaced costly petroleum solvent with water. So we get cheaper finished products with no evaporation loss and tire hazard. So we can say surface coating industry is now eco-friendly. ₹975/- US \$ 100



### **ADHESIVES FORMULARY HANDBOOK**

Adhesives have so importance and are extensively attached to our infrastructure that we cannot isolate in from our daily needs. From school going children to housewives to jet manufactures to Atomic Explosion, every where adhesives plays a very important role. ₹1275/- US \$ 125

### **Handbook on Speciality Gums, Adhesives, Oils, Rosin & Derivatives, Resins, Oleoresins, Katha, Chemicals with other Natural Products**



The forest in India yields a large number of products, which play an important role in the economy of the country. This book contains processes of forest based products like Gums, Resins, Oleoresins, Essential Oils and other natural products obtained from Indian forests. It gives an insight of richness and vastness of the forestwealth. ₹1275/- US \$ 125



Painting is older than writing. It began twenty thousand years ago when the Stone Age man drew pictures with earth colours on the walls of caves in northern Spain and southern France. Now a days paints play a critical role in preventing corrosion and enhancing aesthetic values in various segments such as architectural household applications, automobiles, industrial equipments, ships, aircrafts etc. The present book covers the various formulae and processes of paints, pigments, varnishes and enamels. ₹1100/- US \$ 125

### **Paints, Pigments, Varnishes And Enamels Technology Handbook**

varieties and have a long history in popular culture.

In India the large crystalline form of sugar is called "Mishri". The word "Mishri" comes from Chinese, originally Mi-Sha-Li, "sweet-pebble-glassy," a sweet crystalline (glassy) substance the size of pebbles. Candy Sugar has its origins in India and Persia. Arabic writers in the first half of the 9<sup>th</sup> century described the production of candy sugar. Crystals were grown as a result of cooling supersaturated sugar solutions.

Candy sugar is known for centuries for its therapeutic applications. It is also popular among makers of homemade fruit liquors. It is loved by both kids and grownups; this rock candy makes a good substitute for dessert after meals.

#### **USES & APPLICATIONS**

Candy Sugar is a great sweetener for tea or coffee and simply looks pretty on the table. Candy sugar is known for centuries for its therapeutic applications. It is also popular among makers of homemade fruit liqueurs. Loved by both kids & grownups, this rock candy makes a good substitute for dessert after meals.

#### **MARKET SURVEY**

Sugar is typically one of the most significant contributors to dietary energy supply. In fact, sugar is the third most important source of per caput Dietary Energy Supply (DES) after cereal products. And it is a relatively inexpensive food. The cost of calories from sugar is about 15 percent less than that from cereals.

At the global level, sugar, including non-centrifugal sugars, currently contributes more than 8 percent of total caloric intake, after cereals (52 percent) and oils (10 percent). Given the global population balance, these percentages closely reflect the situation in developing countries where sugar accounts for nearly 8 percent of total caloric intake, after cereals (57 percent) and oils (9 percent).

India has been known as the original home of sugarcane and sugar. India is the second largest producer of sugar in the world after Brazil and produces more of cane sugar and not beet sugar. It produces approximately 22 million tons of sugar annually, with Maharashtra contributing over one-third of it. Indians knew the art of making sugar since the fourth century. However the advent of modern sugar industry in India dates back to mid 1930's when a few vacuum pan units were established in the subtropical belts of Uttar Pradesh and Bihar.

#### **Cost Estimation**

Capacity	: 100 MT/Day
Plant & Machinery	: 637 Lakhs
Total Capital Investment	: 3859 Lakhs
Rate of Return	: 48 %
Break Even Point	: 28 %

#### **CAST IRON EARTH PIPES WITH FLANGES**

Most of the old Cast Iron pipes are cast vertically but this type has been largely superseded by spun iron type manufactured up to a diameter of 900 mm. Though the cast iron pipe has the disadvantages of heavy weight, and consequent high transport costs, short length, leading to higher laying and jointing cost, low tensile strength, liability to defect of inner surface, it is widely used because of its good lasting qualities. There are many examples of cast iron mains in this country which continue to give satisfactory services even after a century of use.

Cast of Iron pipes and fittings are being made in this country for more than a century. The production

capacity exceeds more than 3,00,000 tons per annum. Due to its strength and corrosion resistance, C.I. pipes can be used in soils and for water of slightly aggressive character. They are well suited for pressure mains and laterals where tapping are made for house connections. It is preferable to have coating inside and outside of the pipe. Pipe flanges are protruding rims, edges, ribs, or collars used to make a connection between two pipes or between a pipe and any type of fitting or equipment component. Pipe flanges are used for dismantling piping systems, temporary or mobile installations, transitions between dissimilar materials, and connections in environments not conducive to solvent cementing.

#### **USES & APPLICATIONS**

Cast iron soil pipe and fittings are used primarily in building construction for sanitary and storm drain, waste, and vent piping applications. The product is installed in residential construction, hospitals, schools, and in commercial and industrial structures. For this reason, the pattern of cast iron soil pipe shipments and sales is directly related to the pattern of building/construction activity. In buildings, the principal assembly of this piping is installed within the partitions and serves the tub, lavatory, and water closet fixtures. The main line in this assembly is the cast iron soil stack, which runs vertically from the building drain up through the structure and through the roof. Waste lines are connected to this main soil stack, and vent lines may also be tied in at a point above the highest fixture.

#### **MARKET SURVEY**

India needs to grow faster than the conservative assumption at a GDP close to 10 percent a year. Cities grow rapidly, there will be rapid population growth and industry specific developments relating to massive usage of ductile iron pipes. The real life expectancy of cast iron pipe is unknown, but is usually estimated at 100 years or more. The oldest operating cast iron main is that at Versailles, France, installed in 1664. In United States and in Canada there are more than 500 members of the Cast Iron Pipe Century Club, a unique organization composed of cities or utilities have cast iron pipe still in service after 100 years. In India, Electro steel Castings Limited (ECL) was the first to set up a Ductile Iron Pipe Plant. Ductile Iron Pipe, a product of advanced metallurgy, offers unique properties for conveying water under pressure, and other piping uses.

#### **Cost Estimation**

Capacity	: 2000 NOS./Day
Plant & Machinery	: 371 Lakhs
Total Capital Investment	: 1572 Lakhs
Rate of Return	: 24 %
Break Even Point	: 45 %

#### **SPICE**

Spices which are basically plant products, have a definite role to play in enhancing the taste flavour, relish or piquancy of any food; most of the spices are fragrant, aromatic & pungent. They comprise seeds, barks, rhizomes, leaves fruits and other parts of plants, which belong to variegated species and genera since time immemorial, India is renowned to be the home of spices. Most important spices like black pepper (king of spices) cardamom (queen of spices), ginger, chillis and turmeric, which are produced in India import its great reputation, and these constitute. In the list of spices, clove, nutmeg, cinnamon

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AN ISO 9001 : 2008 CERTIFIED COMPANY



# MARKET SURVEY CUM DETAILED TECHNO ECONOMIC FEASIBILITY REPORTS

## EACH DETAILED PROJECT REPORT CONTAINS

**BEGINNING** : Project Introduction, Brief History of the Product, Properties, BIS (Bureau of Indian Standard) Specifications & Requirements, Uses & Applications

**MARKET SURVEY** : Present Market Position, Expected Future Demand, Statistics of Imports & Exports, Export Prospect, Names and Addresses of Existing Units (Present Manufactures).

**PLANT & MACHINERY** : List of Plant & Machineries, Miscellaneous Items and Accessories, Instruments, Laboratory Equipment's and Accessories, Plant Location, Electrification, Electric Load and Water, Maintenance, Suppliers/Manufacturers of Plant and Machineries.

**RAW MATERIAL** : List of Raw Materials, Properties of Raw Materials, Availability of Raw Materials, Required Quality

of Raw Materials, Cost/Rates of Raw Materials.

**MANUFACTURING TECHNIQUES** : Formulae Detailed Process of Manufacture, Flow Sheet Diagram.

**PERSONNEL REQUIREMENTS** : Requirement of Staff & Labour, Personnel Management, Skilled & Unskilled Labour.

**LAND & BUILDING** : Requirement of Land Area, Rates of the Land, Built up Area, Construction Schedule, Plant Layout.

**FINANCIAL ASPECTS** : Cost of Raw Materials, Cost of Land & Building, Cost of Plant & Machineries, Fixed Capital Investment, Working Capital, Project Cost, Capital Formation, Cost of Production, Profitability Analysis, Break Even Point, Cash Flow Statement for 5 to 10 Years, Depreciation Chart, Conclusion, Projected Balance Sheet, Land Man Ratio

- Prepared by highly qualified and experienced consultants and Market Research and Analyst Supported by a panel of experts and computerised data bank.
- Data provided are reliable and upto date collected from suppliers/manufacturers, plant already commissioned in India.
- NPCS Reports are very economical and immediately available on demand where as commissioned Feasibility Studies are time consuming and costly.

FOR ASSESSING MARKET POTENTIAL,  
INVESTMENT DECISION  
MAKING CORPORATE  
DIVERSIFICATION PLANNING ETC.

**NPCS Engineers and Consultants have prepared "Market Survey Cum Detailed Techno Economic Feasibility Report" on the following products which are most viable and profitable.**

### ABRASIVE, ASBESTOS, CEMENT, REFRACTORY PRODUCTS

- ◆ Abrasive (Carborandom) Cloth (Emery Cloth)
- ◆ Abrasive and Flint Paper
- ◆ Abrasive Cake for Floor Polishing
- ◆ Abrasive Cake for Granite & Marble Polishing
- ◆ Abrasive Emery
- ◆ Abrasive Emery Cloth Paper
- ◆ Abrasive Grinding Wheel
- ◆ Abrasive Sand Paper
- ◆ Abrasive Cake (Cement Based)
- ◆ Admixture for Concrete
- ◆ Asbestos Cement Corrugated Sheet
- ◆ Automatic Brick Plant
- ◆ Bentonite
- ◆ Bonded Abrasives
- ◆ Bricks from Stone Dust
- ◆ Bricks from Fly Ash
- ◆ Bricks from Sandy Clay
- ◆ Bricks from Fly Ash (Triboelectric Beneficiation Process)
- ◆ Bricks from Fume Dust (Used In Construction)
- ◆ Cement (Clinker)
- ◆ Cement from Fly Ash & Lime
- ◆ Cement from Rice Husk
- ◆ Cement Grinding Unit
- ◆ Cement Plant
- ◆ Cement Plant (Large, Medium & Small Scale Unit)
- ◆ Cement from Lime Stone
- ◆ Cement Plant
- ◆ Cement Roofing Tiles
- ◆ Cement Tiles (Laying Over RCC Roof)
- ◆ Clay and Sand Bricks Plant (Light Wt.)
- ◆ Computerized Hot Mix Concrete

- ◆ Plant
- ◆ Emery Stone for Atta Chakki
- ◆ Emery Stone for Floor Polishing
- ◆ Ferro Cement Plant
- ◆ Fire Bricks
- ◆ Foundry Sand (Non Ferrous Metal)
- ◆ Glass Marbles
- ◆ Granite & Marble Chips
- ◆ Granite & Marble Polishing Stone
- ◆ Granite (Marble) Polishing Batti
- ◆ Granite (Marble) Polishing Unit
- ◆ Granite Monuments
- ◆ Granite Tiles and Slab
- ◆ Graphite Carbon Plate
- ◆ Graphite Crucibles
- ◆ Graphite Electrode for Arc Furnace
- ◆ Grinding Wheel Making Plant
- ◆ Gypsum Plaster Board
- ◆ Hollow Concrete Block
- ◆ Lime Bonded Fly Ash Bricks
- ◆ Magnesite Bond Polishing Brick, Resin Bond Polishing Brick & Resin Bond Final Polishing for Marble & Granite
- ◆ Marble from Marble Mining
- ◆ Marble-Granite Cutting & Polishing Unit
- ◆ Mini Cement Plant
- ◆ Mini Cement Plant (Slag Cement)
- ◆ P.V.C. Conduit Pipe
- ◆ Particle Board from Saw Dust
- ◆ PCC/RCC Pipes
- ◆ Plaster of Paris (P.O.P.)
- ◆ Plaster of Paris Bandages
- ◆ Plaster of Paris Board from Process of H-Acid Gypsum
- ◆ Prestressed Concrete Sleepers
- ◆ Process Food & Spices
- ◆ Ramming Mass and Fire Bricks

- ◆ from Magnesite
- ◆ Salt Glazed Stone Ware Pipes & Fittings
- ◆ Sand Lime Bricks Manufacture
- ◆ Semi Automatic Brick Plant
- ◆ Solvent Cement
- ◆ Spun Concrete Pipe Utilization in Dist. of Electrical Line
- ◆ Stone Crushers
- ◆ Treated Cloth for Abrasive
- ◆ White Cement
- ◆ BAKERY, FOOD & ALLIED INDUSTRIES
- ◆ Animal Feed Using DateP i t s , Discarded Dates & Other Ingredients
- ◆ Apple Chips
- ◆ Asafoetida
- ◆ Atta Chakki
- ◆ Automatic Biscuit Making Plant
- ◆ Automatic Bread & Biscuit Plant
- ◆ Automatic Bread Plant
- ◆ Automatic Papad Plant
- ◆ Automatic Toffee & Candy
- ◆ Automatic Chapati Making Plant
- ◆ Alcohol from Potatoes
- ◆ Alcohol from Rice (Grains)
- ◆ Apple Juice Concentrate & Dehydrated Fruits & Vegetables
- ◆ Aquaculture Prawn Farming (100% EOU)
- ◆ Aquaculture Shrimp Farming
- ◆ Atta, Maida, Suji & Wheat Mill)
- ◆ Automatic Bread & Biscuit Unit (Modern Bakery) Plant
- ◆ Baker's Yeast
- ◆ Bakery Unit (Pastries, Bread, Buns, Cake, Toffee)
- ◆ Besan Plant
- ◆ Bottling Plant Country Liquor from Rectified Spirit
- ◆ Baby Cereal Food
- ◆ Baby Health Care Food & Milk

- ◆ Bakery Industries
- ◆ Baking Powder
- ◆ Banana & Its By Products
- ◆ Banana Powder
- ◆ Banana Puree
- ◆ Banana Wafers
- ◆ Basmati Rice Trading
- ◆ Beer & Wine
- ◆ Beer Industry
- ◆ Biscuits Making Plant
- ◆ Bottling Plant (Alcoholic & Non Alcoholic)
- ◆ Bottling Plant (I.M.F.L.)
- ◆ Bottling Plant (Country Liquor)
- ◆ Bread Plant (Semi-Automatic)
- ◆ Buffalo Meat Processing
- ◆ Cake Gel (Cake Improver)
- ◆ Candy Hard Boiled
- ◆ Canned Foods - Chopped Tomatoes, Cheeked Beans, Mushrooms
- ◆ Canned Juice - Carrot, Bottle Gourd/Long Melon (Lauki Ka Juice) In Tetra Pack
- ◆ Canning of Alcoholic and Non Alcoholic Beverages
- ◆ Caramel Colour from Sugar
- ◆ Canned Vegetables
- ◆ Canning and Preservation of Fruits & Vegetables
- ◆ Casein from Milk
- ◆ Cashew Fruits Juice from Cashew Apples
- ◆ Cashew Nut Kernel Extraction from Cashew Nut Fruits
- ◆ Cashew Apple Syrup Cum Orange / Lemon Squash.
- ◆ Cashew Feni
- ◆ Cashew Nut (Dried & Fried)
- ◆ Cashew Nut Shell Liquid & Kernel
- ◆ Cattle & Poultry Feed (Mix Feed)
- ◆ Cattle Feed with Molasses



## SELECTED PROJECTS FOR RIGHT INVESTMENT

- ◆ Cattle Feed
- ◆ Cattle Feed from Molasses & Bagasse
- ◆ Cattle Feed from Tapioca
- ◆ Cheese Analogues
- ◆ Chewing Gum & Bubble Gum
- ◆ Chewing Tobacco (Raja Type)
- ◆ Chewing Tobacco (Khaine) in Pouch Pack
- ◆ Chicken Meat Processing & Packaging
- ◆ Chilli Oil
- ◆ Chilli Powder
- ◆ Chilli Sauce
- ◆ Chocolate
- ◆ Chocolate & Confectionery
- ◆ Chocolate Drink
- ◆ Chocolate Drink (Liquid Form)
- ◆ Chocolate Drink (Powder form)
- ◆ Chocos (Ready to Eat Breakfast Cereal)
- ◆ Cocoa Beverages in Granules Form (Health Drink)
- ◆ Cocoa Butter and Cocoa Powder
- ◆ Coconut and Cashew Feni
- ◆ Coconut Oil from Copra
- ◆ Coconut Oil in Containers (Filtration & Airtight Packaging)
- ◆ Coconut Powder
- ◆ Coconut Processing Complex Unit
- ◆ Coconut Squash Jam & Cream
- ◆ Coconut Water
- ◆ Coffee Processing & Packaging
- ◆ Cold Drink
- ◆ Confectionery Products (Toffee & Candy)
- ◆ Corn Flaks
- ◆ Corn Oil (Maize Oil)
- ◆ Country Liquor
- ◆ Curcumin
- ◆ Curry Powder
- ◆ Custard Powder
- ◆ Caramel (Acid Proof/Spirit Proof)
- ◆ Cardamom Oil
- ◆ Cheewing Ginger and Amlaki
- ◆ Chocolate
- ◆ Chocolate Drinks
- ◆ Cocoa Beverages (Health Drink) in Granules Form
- ◆ Coconut Shell Powder
- ◆ Corn Oil
- ◆ Cotton Seed Oil
- ◆ Curry Powder/Spices
- ◆ Dairy Products & Milk Packaging in Pouches (Ghee, Casein, Butter)
- ◆ Dall Mill
- ◆ Dehydration & Canning of Fruits & Vegetables
- ◆ Dextrose Powder (Monohydrate) from Starch
- ◆ Dairy Products
- ◆ Dall/Pulse Mill
- ◆ Deep Freezing of Vegetables Like Pea, Tomato, Potato
- ◆ Dehydrated Garlic Flakes & Granulated Powder
- ◆ Dehydrated Onion & Onion Powder
- ◆ Dehydrated Vegetables
- ◆ Dehydration & Canning of Fruit & Vegetables
- ◆ Dehydration & Pickling of Oyster Paddy Straw Mushroom
- ◆ Dehydration of Fruit & Vegetable (Osmo Dehydration Process)
- ◆ Dehydration of Fruit & Vegetable Juice
- ◆ Dehydration of Fruits & Vegetables
- ◆ Dehydration of Grapes
- ◆ Dehydration of Lime Fruit
- ◆ Dehydration of Vegetables & Tropical Fruit / Drying Crystallization
- ◆ Diabetic Food (Atta)
- ◆ Dog Food
- ◆ Drum Stick Powder
- ◆ Dry Ginger from Green Ginger
- ◆ Drying of Red Chillies
- ◆ Drying of Tropical Fruits
- ◆ Edible Corn Oil
- ◆ Edible Vegetable Oil Start from Grind Raw Material to Fine Filtered
- ◆ Edible Refined Oil
- ◆ Edible Plasticizer for Ragi Papad
- ◆ Edible Vegetable Oil
- ◆ Egg Powder
- ◆ Fish Canning in Tins & Pouches (100% EOU)
- ◆ Food Processing (Cassava Flour, Starch, Gari, Cuscus)
- ◆ Fried & Roasted Groundnut, Gram, Pea
- ◆ Fish & Poultry Feed
- ◆ Fish Canning in Tin (Pouching)
- ◆ Fish Dehydration
- ◆ Fish Meal
- ◆ Fish Processing
- ◆ Flour Mill (Atta & Besan)
- ◆ Food Colour (Coal Tar Based)
- ◆ Food Colour (Natural & Synthetic)
- ◆ Freezing of Fresh Vegetable for Export
- ◆ French Fries & Allied Potato Products
- ◆ Fresh Processed Frozen Vegetable Puree & Sauce 100% EOU
- ◆ Frozen Food (Fruits & Vegetables)
- ◆ Fruit Concentrates (Rasna Type)
- ◆ Fruit Drink in Tetra Pack
- ◆ Fruit Juice & Allied Products
- ◆ Fruit Juice (Mango) in Tetrapack
- ◆ Fruit Juice Bottling Plant
- ◆ Fruit Juice in Plastic Cups
- ◆ Fruit Juice in Tetrapack
- ◆ Fruit Juice Manufacturing
- ◆ Fruit Juice Powder
- ◆ Fruit Juice, Jam, Jellies and Allied Products
- ◆ Fruit Processing
- ◆ Fruit Pulp & Juices
- ◆ Fruit Pulp & Squashes
- ◆ Garlic Flakes
- ◆ Ginger Processing Plant
- ◆ Grape Wine
- ◆ Green Peas Processing and Canning
- ◆ Garlic Oil
- ◆ Garlic Paste
- ◆ Garlic Powder
- ◆ Ginger & Garlic Composite Plant
- ◆ Ginger Glazing & Preservation
- ◆ Ginger Oil
- ◆ Ginger Oil (Super Critical Co<sub>2</sub> Process)
- ◆ Ginger Paste in Pouch/Black Container
- ◆ Ginger Powder
- ◆ Ginger Processing (Peeling, Drying, Grinding & Blending)
- ◆ Gluten
- ◆ Gram Dall & Flour Mill with Modern Automatic Plant
- ◆ Gram Dall and Flour Mill
- ◆ Gur from Cane (Export Quality)
- ◆ Hard Sugar Candy
- ◆ Health Drink (Cocoa Beverages in Granules Form)
- ◆ Hing (Asafoetida)
- ◆ Honey Processing & Packaging
- ◆ Honey Roasted Peanut
- ◆ Indian Made Foreign Liquors
- ◆ Ice Cream Manufacturing
- ◆ Ice Cream of Different Flavours
- ◆ Ice Cube Plant
- ◆ Ice Making Plant
- ◆ Imported Palm Oil Processing
- ◆ Instant Coffee
- ◆ Instant Foods (Idli Mix, Vada Mix, Gulabjamun Mix, Sambar Mix)
- ◆ Instant Noodles
- ◆ Instant Tea
- ◆ Instant Tea & Coffee (Premixed with Sugar & Milk)
- ◆ Invert Sugar
- ◆ Iodised Salt Free Flowing From Sea Water
- ◆ Iodized Salt (Ordinary & Moistureless free Flowing)
- ◆ Iodized Salt free Flowing
- ◆ Isolation of Citral & Ionones from Lemon Grass Oil
- ◆ Jam Jelly (Chutny, Pickels & Squash)
- ◆ Karela Powder (Bitter Guard Powder)
- ◆ Katha
- ◆ Katha and Cutch
- ◆ Khaine (Chewing Tobacco)
- ◆ Khandsari Sugar
- ◆ Lactin (Soya Based)
- ◆ Liquid Glucose from Broken Rice
- ◆ Liquid Glucose from Maize & Maize Oil
- ◆ Liquid Glucose from Potato
- ◆ Litchi Juice
- ◆ Locally Made Foreign Liquor
- ◆ Maize & Its by Products
- ◆ Maize Processing for Glucose
- ◆ Maize Products (Starch, Oxidized Starch, Liquid Glucose & Dextrose)
- ◆ Maize Oil
- ◆ Margarine Fat
- ◆ Mayonnaise
- ◆ Menthol Crystals (EOU)
- ◆ Milk Products
- ◆ Milk Toffee Manufacturing
- ◆ Modern Rice Mill
- ◆ Mushroom Growing & Processing with Air Conditioning
- ◆ Macaroni Manufacturing
- ◆ Macaroni, Spaghetti Vermicelli & Noodles
- ◆ Makhana Processing Unit
- ◆ Malt from Barley
- ◆ Malting Plant
- ◆ Mango Fruit Bar
- ◆ Mango Juice
- ◆ Mango Papad (Aam Papad)
- ◆ Mango Pickles
- ◆ Mango Powder
- ◆ Mango Processing
- ◆ Mango Pulp
- ◆ Mango Pulp & Slices
- ◆ Mango Pulp Processing & Canning
- ◆ Manufacturing of Roasted Salted Cashew Kernel from Cashew Nut
- ◆ Masaia (Spices) [Eou]
- ◆ Menthol Crystal from Menthol Oil
- ◆ Milk Chilling & Packaging Plant
- ◆ Milk Paneer
- ◆ Milk Plant with Pouch Packing
- ◆ Milk Powder and Ghee
- ◆ Milk Powder, Pasteurised Milk, Butter, Cheese & Ghee
- ◆ Milk Product Butter, Ghee, Ice Cream
- ◆ Milk Product Cheese
- ◆ Mineral Water Bottling Plant
- ◆ Mineral Water in Pouches
- ◆ Mini Flour Mill (Disk Type)
- ◆ Mini Sugar Plant
- ◆ Modern Basmati Rice
- ◆ Modern Bread & Bakery Unit (Bread, Buns, Rush)
- ◆ Modern Bread & Buns (Bakery Unit)
- ◆ Modern Chilly Powder
- ◆ Modified Starch
- ◆ Mushroom Processing and Canning
- ◆ Mustard Oil Mill
- ◆ Namkeen (Dalmoth, Bhujia, Chanachoor)
- ◆ Non-Dairy Whipping Cream
- ◆ Oleoresin of Spices
- ◆ Oleoresin from Chilly
- ◆ Onion Storage
- ◆ Onion & Potato Powder
- ◆ Onion Powder
- ◆ Organic Food
- ◆ Pan Masala in Pouch and Tin
- ◆ Pack, Sada, Meetha, Zarda & Kimmam
- ◆ Pan Masala, Gutka, Sweet Supari, Chewing Tobacco & Khaine
- ◆ Pan Masala & Gutka
- ◆ Pan Masala in Pouch & Tin Pack Sada, Meetha, Zarda
- ◆ Pan Masala in Pouch Pack
- ◆ Pan Masala, Gutka & Pouch Making Plant
- ◆ Papad Plant (Automatic)
- ◆ Pectin from Apple Pomace
- ◆ Paneer from Soya Milk
- ◆ Papad & Bari
- ◆ Papad Plant (Imported/Automatic)
- ◆ Parboiled Rice Mill
- ◆ Pasteurised Milk & Cheese Mfg. Unit
- ◆ Pasteurised Milk Packing
- ◆ Packaged Drinking Water
- ◆ Palm Oil Processing (Imported)
- ◆ Peanut Butter
- ◆ Pectin from Mango Peel
- ◆ Pickles (Vegetarian & Non Vegetarian)
- ◆ Pickles Murabbas (Veg. & Non Veg.)
- ◆ Pickles, Murabbas, Sauces & Squashes
- ◆ Pig Meat Processing (800 Pkg/Day)
- ◆ Piggery Meat Processing
- ◆ Piggery / Meat / Chicken Processing
- ◆ Pine Apple Slice Canning
- ◆ Pineapple Juice Manufacturing & Canning
- ◆ Pickles
- ◆ Poha (Chiwra)
- ◆ Pork Products
- ◆ Pork Processing & Pig Farming
- ◆ Potato and Onion Flakes
- ◆ Potato Chips
- ◆ Potato Chips & Its By-Products
- ◆ Potato Chips (Imported M.C.)
- ◆ Potato Granules
- ◆ Potato Powder (Automatic)
- ◆ Potato Powder, Flakes & Pellets
- ◆ Potato Starch
- ◆ Potato Wafers (Imported Plant)
- ◆ Potato Chips in Different Flavours
- ◆ Potato Chips/Waffers
- ◆ Poultry and Broiler Farming
- ◆ Poultry Feed
- ◆ Poultry Processing (Processed Meat)
- ◆ Potato Powder (In Low Investment)
- ◆ Processed Food & Spices
- ◆ Processed Fruits and Vegetables
- ◆ Processing & Packing of Snack Food
- ◆ Processing of Food Grain/Pulse and Retail Packaging
- ◆ Production of Date Syrup, Date Paste, Date Jam & Date Food
- ◆ Ragi Biscuits
- ◆ Refined Oil (Cotton Seed, Ground Nut, Sunflower)
- ◆ Rice Polishing & Packaging in Pouches
- ◆ Refining of Edible Oil
- ◆ Rice & Corn Flakes
- ◆ Rice Noodles
- ◆ Roasted/Salted/Masala Cashew nuts, Almonds & Snack Food (Roll & Ball Type)
- ◆ Rice Flakes (Poha)
- ◆ Roasted & Fried Dry Fruits, Grain, Grams, Peas Etc. (In Pouch)
- ◆ Roasted / Salted / Coated Cashewnut, Peanuts, Almonds
- ◆ Roller Flour Mill (Maida & Suzi)
- ◆ Roller Flour Mill (Mini Flour Mill)
- ◆ Sacharine (Both Soluble & Insoluble)
- ◆ Salted Cashewnut Processing
- ◆ Sattu Manufacturing
- ◆ Semi Automatic Plant for Toffee
- ◆ Shiitake Mushroom
- ◆ Silver Coated Sugar Balls

Market Survey Cum Detailed Techno Economic Feasibility Report on All Above Projects are Available. Contact :

### NIIR PROJECT CONSULTANCY SERVICES

AN ISO 9001:2008 CERTIFIED COMPANY

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## SELECTED PROJECTS FOR RIGHT INVESTMENT

- ◆ Skimmed Milk Powder
  - ◆ Slaughter House
  - ◆ Snack Food (Crax Type) Roll & Ball Type
  - ◆ Soft Drink (Carbonated)
  - ◆ Soft Drink (Cola, Orange, Lemon, Mango, Pulp, Ginger, Clear Lemon, 7up Type)
  - ◆ Soft Drink Concentrate
  - ◆ Softy Ice Cream Cones (Automatic/ Imported Plant)
  - ◆ Soumf Supari (Elaichi Flavour)
  - ◆ Soya Bean Milk from Soya
  - ◆ Soya Products
  - ◆ Soyabean Baryian (Automatic)
  - ◆ Soyabean Meat
  - ◆ Soyabean Oil from Soyabean Seed & Cattle Feed
  - ◆ Soyabean Product (Soyabean Oil, Soya Paneer, Soya Extract)
  - ◆ Soda Water Bottling Plant
  - ◆ Softy Ice Cream
  - ◆ Spices
  - ◆ Spice & Allied Products
  - ◆ Spice Oleoresin (Chilly Oil) by Super Critical Process
  - ◆ Spice Oleoresin (Ginger)
  - ◆ Spices (Eou)
  - ◆ Spices (Garlic Base Spices with Packing in Bags)
  - ◆ Starch & Allied Product from Maize
  - ◆ Starch (A & B)
  - ◆ Starch from Maize
  - ◆ Starch from Tapioca
  - ◆ Sugar Coated Cashew Nuts, Almonds, Peas
  - ◆ Supari (Sweet) (Betel Nut)
  - ◆ Sugar Candy (Bombay Mishri Type)
  - ◆ Sugar Candy (Mishri)
  - ◆ Sugar Candy (Pearl Type)
  - ◆ Sugar Cane Juice Preservation
  - ◆ Sugar Cubes
  - ◆ Sugar Pellets
  - ◆ Sugar Plant
  - ◆ Sun Flower Seed Oil
  - ◆ Sweet Scented Supari
  - ◆ Tamarind Pulp
  - ◆ Tamarind Juice Concentrates
  - ◆ Tamarind Juice Powder
  - ◆ Tamarind Kernel Powder
  - ◆ Tamarind Pulp from Tamarind
  - ◆ Tea Packaging Unit
  - ◆ Tea Plantation & Processing
  - ◆ Tea Bag
  - ◆ Tea Bag (Dip-Dip Type) Tea Processing
  - ◆ Tea Packaging Industries
  - ◆ Tea Plantation & Processing
  - ◆ Tea Processing & Packaging
  - ◆ Tejpatta Oil from Tejpatta
  - ◆ Tomato Processing Unit
  - ◆ Tomato Pulp
  - ◆ Tomato Paste (Tomato Concentrate)
  - ◆ Tomato Powder
  - ◆ Tomato Product in Pouch (Sauce, Ketchup)
  - ◆ Tomato Product Manufacturing
  - ◆ Trading Business (Rice, Salt, Dry Fruits)
  - ◆ Turmeric Powder
  - ◆ Tuty Fruity from Papaya
  - ◆ Upgrading of Salt
  - ◆ Vinegar
  - ◆ Vanaspati Ghee (Hydrogenated Vegetable Oil)
  - ◆ Vegetable Margarine Plant
  - ◆ Vegetable Oil (Refined)
  - ◆ Vermicelli
  - ◆ Virgin Coconut Oil
  - ◆ Vitamins & Minerals Enriched Various Designed Corn Flakes
  - ◆ Vodka from Potatoes
  - ◆ Wheat Puff
  - ◆ White Oat Processing
  - ◆ Wine, Brandy, Whisky & Champagne
  - ◆ Yeast from Molasses
  - ◆ Yogurt in Plastic Cups
  - ◆ Zarda, Kimam, Tobacco
  - ◆ Zarda, Kimam No-60, 120, 160, 240, 300 & 400
  - ◆ Zarda of Various Grades
  - ◆ Zarda-Zafrani Baba Chaap
- AGROBASED**
- ◆ Alcohol from Potato
  - ◆ Alcohol from Rice Straw
  - ◆ Aloe vera Juice, Gel and Powder
  - ◆ Aquaculture Fish (Bream) Farming
  - ◆ Aquaculture Fish Farming
  - ◆ Aquaculture Prawn Farming Equipped with Cold Storage
  - ◆ Aquaculture/ Shrimp Farming
  - ◆ Arecanut (Betel Nut) Processing Unit
  - ◆ Asparagus Cultivation & Processing
  - ◆ Atta Chakki Plant
  - ◆ Banana & Its By Products
  - ◆ Banana Powder
  - ◆ Bee Keeping, Honey Processing and Packaging
  - ◆ Bio-Coal Briquettes from Agricultural Cellulosic Waste
  - ◆ Broom Stick Processing Unit
  - ◆ Button Mushroom Cultivation, Processing & Canning
  - ◆ Canning of Mango Pulp & Mango Slices
  - ◆ Cashew Nut Kernal Extraction from Cashew Nut Fruits
  - ◆ Cashew Nut Shell Liquid & Kernel Processing
  - ◆ Cashew Nut Shell Liquid (CNSL)
  - ◆ Cashewnuts (Dried and Fried)
  - ◆ Cattle and Poultry Feed
  - ◆ Cattle Breeding
  - ◆ Cattle Breeding & Dairy Farm to Produce Milk
  - ◆ Cattle Farm
  - ◆ Cement from Rice Husk
  - ◆ Charcoal from Bagasse
  - ◆ Charcoal from Coconut Shell
  - ◆ Chicken Meat Processing & Packaging
  - ◆ Chilly Powder
  - ◆ Coconut & Cashew Feni
  - ◆ Coconut & Its Products
  - ◆ Coconut Fibre
  - ◆ Coconut Oil from Copra
  - ◆ Coconut Processing Unit (Complex)
  - ◆ Coconut Shell Powder
  - ◆ Coconut Squash Jam & Cream
  - ◆ Coconut Water
  - ◆ Coffee Processing & Packaging
  - ◆ Coir Handicraft
  - ◆ Coir Pith Products (Briquettes, Artificial Door & Manure)
  - ◆ Coir Industry
  - ◆ Coir Pith
  - ◆ Curry Powder
  - ◆ Cut Flower Rose (Floriculture)
  - ◆ Dairy Agro (Cow, Goat, Broiler) Farming
  - ◆ Dairy Farm to Produce Milk
  - ◆ Dairy Farm to Produce Milk in Poly Pack
  - ◆ Dairy Farming & Dairy Products
  - ◆ Dairy Farming & Milk Packaging
  - ◆ Dairy Farming to Produce Milk for Co-Operative Society
  - ◆ Dairy Unit with Water Treatment Plant, Cold, Storage with Total Air Conditioning Plant
  - ◆ Dairy Products
  - ◆ Dal Mill
  - ◆ De-Carbonised (Smokeless Coke / Soft Coke)
  - ◆ Dehulling of Sesam Seeds
  - ◆ Dehydrated Garlic Flakes and Granulated Powder
  - ◆ Dehydrated Onion & Onion Powder
  - ◆ Dehydration & Canning of Fruits and Vegetables
  - ◆ Dehydration of Vegetable & Tropical Fruits
  - ◆ Desiccated Coconut Powder from Coconuts
  - ◆ Dry Ginger from Green Ginger
  - ◆ Drying of Tropical Fruits
  - ◆ Extraction of Soyabean Oil from Oil Seeds & Cattle Feed (Expander Extrusion Cooking Process)
  - ◆ Fish Farming
  - ◆ Fish Farming (Prawn & Others) & Marine Products
  - ◆ Fruit Juice in Plastic Cups
  - ◆ Fruit Juice Powder
  - ◆ Fruit Juice, Jam and Allied Products
  - ◆ Fruit Juices Making and Packing in Plastic Containers (Pouches)
  - ◆ Fruit Pulp and Juice Concentrate
  - ◆ Fuel Briquettes from Agro Waste
  - ◆ Garlic Powder
  - ◆ Ginger & Garlic Composite Plant (Flake and Powder)
  - ◆ Ginger Oil
  - ◆ Ginger Powder
  - ◆ Ginger Processing (Peeling Drying, Grinding, Bleaching)
  - ◆ Goat and Sheep Farming
  - ◆ Goat Farming
  - ◆ Gram Dall & Flour Mill with Modern Automatic Plant
  - ◆ Gram Dall and Flour Mill
  - ◆ Green House (Micro Plant Propagation)
  - ◆ Hard Board from Rice Husk
  - ◆ Hard Board from Bagasse
  - ◆ Hard Board from Saw Dust
  - ◆ Honey Processing & Packaging
  - ◆ Hybrid Seed Production, Bio-Technology & Export Dedicated Floriculture with Green House Cultivation
  - ◆ Instant Tea
  - ◆ Integrated Sericulture
  - ◆ Invert Sugar
  - ◆ Katha and Cutch
  - ◆ Liquid Glucose from Maize & Maize Oil
  - ◆ Liquid Glucose from Potatoes
  - ◆ Maize Processing for Glucose
  - ◆ Maize Wet Milling Process
  - ◆ Mango Juice
  - ◆ Mango Powder
  - ◆ Mango Pulp
  - ◆ Medicinal / Herbal Plants Cultivation
  - ◆ Milk Chilling & Packing Plant
  - ◆ Mini Sugar Plant
  - ◆ Modern Rice Mill
  - ◆ Mushroom Growing and Processing (By Deep Freezing Method)
  - ◆ Mustard Oil
  - ◆ Neem Oil from Seeds
  - ◆ Newsprint Paper from Rice Straw & Bagasse
  - ◆ Nursery Farms
  - ◆ Nursery for Producing Tree-Sapling
  - ◆ Onion & Potato Powder
  - ◆ Onion Storage
  - ◆ Paneer from Soyamilk
  - ◆ Papad & Bariya
  - ◆ Paper from Rice Husk & Wheat Husk
  - ◆ Parboiled Rice Mill
  - ◆ Partical Board from Bagasse
  - ◆ Particle Board from Cotton Stem
  - ◆ Particle Board from Rick Husk
  - ◆ Particle Board from Saw Dust
  - ◆ Pectin from Apple Pomace
  - ◆ Pectin from Citrus, Lemon & Oranges
  - ◆ Pectin from Mango Peel
  - ◆ Pig Farming
  - ◆ Pig Farming with Pork Processing
  - ◆ Pig Meat Processing (800 Pig/ Day)
  - ◆ Pineapple Juice Manufacturing & Canning
  - ◆ Poha (Chiwra)
  - ◆ Potato Chips
  - ◆ Potato Powder
  - ◆ Poultry & Poultry Farm with Hatchery
  - ◆ Poultry and Broiler Farming
  - ◆ Poultry Farm (Cap: 100000 Birds/ Annum)
  - ◆ Poultry Feed
  - ◆ Poultry Processing Plant
  - ◆ Poultry Project
  - ◆ A. Broiler Farm,
  - ◆ B. Broiler Processing, & C. Feed Mill
  - ◆ Processed Fruits & Vegetables
  - ◆ Pulp from Wood, Bamboo and Grass
  - ◆ Rabbit Farming
  - ◆ Refined Oil (Cotton Seed Oil, Groundnut Oil and Sun Flower Oil)
  - ◆ Sandal Wood Oils & Powder
  - ◆ Seed Grading/Processing
  - ◆ Soft Board & Hard Board from Coir Dust
  - ◆ Solvent Extraction Plant (Oil Cake Based)
  - ◆ Soyabean Products
  - ◆ Spices
  - ◆ Sponge Gourd Processing Unit
  - ◆ Starch & Allied Products from Maize
  - ◆ Sugar Pallets
  - ◆ Sugar Plant
  - ◆ Sugarcane Juice Preservation
  - ◆ Sun Flower Oil
  - ◆ Tamarind Juice Concentrate
  - ◆ Tamarind Juice Powder
  - ◆ Tamarind Kerenel Powder
  - ◆ Tamarind Pulp
  - ◆ Tamarind Seed Decorticating & Powder Starch Making
  - ◆ Tea Packaging Industry
  - ◆ Tea Processing & Packaging
  - ◆ Tissue Culture (100% EOU)
  - ◆ Tobacco Creamy Snuff
  - ◆ Tomato Paste
  - ◆ Tomato Products (Tomato Juice, Tomato Puree, Tomato Ketchup)
  - ◆ Trading Business (Rice, Salt, Dry Fruits, Etc.)
  - ◆ Turmeric Powder
  - ◆ Vanaspati Ghee
  - ◆ Wheat Germ Oil
- BIO CHEMICALS & BIOTECHNOLOGY PRODUCTS**
- ◆ Absolute Alcohol (Ethanol)
  - ◆ Absolute Alcohol from Molasses
  - ◆ Acetic Acid from Molasses
  - ◆ Acetic Acid from Natural Gas
  - ◆ Alcohol from Potatoes
  - ◆ Aqua Culture Shrimp Farming
  - ◆ Aquaculture Fish
  - ◆ Aquaculture Prawn Farming
  - ◆ Bio Fertilizer
  - ◆ Bio Fertilizer from Cotton Seed Cake
  - ◆ Bio-Fertilizer (Organic Fertilizers) from Garbage
  - ◆ Bio-Fertilizer (Organic Manure)
  - ◆ Bio-Fertilizer from Birds Excreta
  - ◆ Bio-Fertilizers from Cow dung & Other Wastes
  - ◆ Bio-Diesel from Cooking Oil
  - ◆ Biogas Power Plant
  - ◆ Bio Gas Power Plant from Cowdung
  - ◆ Bio Gas Production (Manual)
  - ◆ Biomass Briquettes from Bio Waste
  - ◆ Biopesticide-Trichoderma, Pseudomonas, Fluorescens & Beauveria Bassiana
  - ◆ Bio-Stimulant and Fertilizer Supplement
  - ◆ Citric Acid from Molasses
  - ◆ Compressed Bio Gas
  - ◆ Compressed Yeast from Molasses

Market Survey Cum Detailed Techno Economic Feasibility Report on All Above Projects are Available. Contact :

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## SELECTED PROJECTS FOR RIGHT INVESTMENT

- ◆ Cut Flower Rose [Floriculture]
  - ◆ Dehydration and Pickling of Oyster Paddy Straw Mushroom
  - ◆ Enzymes
  - ◆ Ephedrine Hydrochloride
  - ◆ Ethanol as Bio-Fuels
  - ◆ Ethyl Alcohol from Molasses
  - ◆ Floriculture
  - ◆ Floriculture with Green House (Cut Flower Rose)
  - ◆ Herbal Extracts
  - ◆ Hybrid Seed Production
  - ◆ Hybrid Seeds
  - ◆ Industrial Enzymes
  - ◆ Insecticides from Neem Seeds
  - ◆ Neemoil & Leaves
  - ◆ Micro Propagation Growth of Tissue Culture
  - ◆ Mini Fertilizer Plant (Urea)
  - ◆ Municipal Garbage Treatment
  - ◆ Mushroom Cultivation
  - ◆ Mushroom Cultivation & Processing
  - ◆ Mushroom Cultivation & Processing with Air Conditioning
  - ◆ Mushroom Processing and Canning
  - ◆ Organic Fertilizer
  - ◆ Organic Foods
  - ◆ Organic Manure from Municipal Solid Wastes
  - ◆ Papain Manufacturing
  - ◆ Prawn Fish Farming
  - ◆ Tissue Cultures (100% EOU)
  - ◆ Vermi - Compost
  - ◆ Vermiculture
  - ◆ Vermiculture Chemical Industries
  - ◆ Yeast
- COCONUT**
- ◆ Activated Carbon from Coconut Shell
  - ◆ Coconut Fiber Unit
  - ◆ Coconut Oil
  - ◆ Coconut Plantation
  - ◆ Coconut Shell Powder
  - ◆ Coconut Squash Jam & Cream
  - ◆ Coconut Water
  - ◆ Coir Pith Products
  - ◆ Integrated Coconut Processing
  - ◆ Rubberised Coir
- CHEMICALS & ALLIED INDUSTRIES**
- ◆ 16 DPA (16-Dehydro Pregneolone Acetate)
  - ◆ 1-Acetonaphthone
  - ◆ 2,4, Dichloro-Phenoxy Acetic Acid
  - ◆ 2-Chloroethyl Phosphate Acid 39% Emulsifying Concentrate
  - ◆ 4,4, Diamino Stilbene 2-2- Disulphonic Acid
  - ◆ Absolute Alcohol (Ethanol)
  - ◆ Absolute Alcohol
  - ◆ Acetic Acid
  - ◆ Acetic Acid (Glacial)
  - ◆ Acetic Acid from Molasses
  - ◆ Acetic Acid from Natural Gas
  - ◆ Acetic Anhydride
  - ◆ Acetonaphthone
  - ◆ Acetone
  - ◆ Acetylene Gas
  - ◆ Acetylene Gas & Oxygen Gas
  - ◆ Acid Slurry (L.A.B.)
  - ◆ Acid Washed Granulated Activated Carbon
  - ◆ Activated Alumina
  - ◆ Activated Bleaching Fuller Earth
  - ◆ Activated Carbon & Sodium Silicate from Rice/Paddy Husk
  - ◆ Activated Carbon from Bamboo
  - ◆ Activated Carbon from Fuller Earth Slum
  - ◆ Activated Carbon from Wood
  - ◆ Activated Carbon Powder & Granulated
  - ◆ Activated Charcoal
  - ◆ Activated Charcoal from Wood
  - ◆ Acid Proof/Spirit Proof Caramel
  - ◆ Acid Slurry (By Manual Process)
  - ◆ Acrylic Acid from Propylene
  - ◆ Acrylic Resin (Emulsion Type)
  - ◆ Activated Carbon from Cashewnut Shell
  - ◆ Activated Carbon from Coconut Shell & Bamboo
  - ◆ Activated Carbon from Coconut Shell By Steam Activation Process
  - ◆ Activated Carbon from Rice Husk
  - ◆ Activated Carbon from Rice Husk, Coconut Shell, Coconut Powder & Coconut Water
  - ◆ Activated Carbon from Saw Dust
  - ◆ Activated Carbon from Saw Dust, Rice Husk and Coconut Shells
  - ◆ Activated Carbon from Wood, Rice Husk & Saw Dust
  - ◆ Aerosol Silicon Spray
  - ◆ Agar Agar (Bacteriological Grade)
  - ◆ Alkyd Resin
  - ◆ Alum
  - ◆ Alum (Non-Ferric)
  - ◆ Aluminium Fluoride
  - ◆ Amla Hair Oil Based on Vegetable Oil
  - ◆ Air Fresheners (Odonil Type)
  - ◆ Alcohol Base Fuel Gel
  - ◆ Alcohol from Potato
  - ◆ Alcohol from Rice (Grains)
  - ◆ Alcohol from Rice Straw
  - ◆ Alcohol Industries Base on Tapioca Starch
  - ◆ Alkyd Resin (Soyabean Oil And Linseed Oil)
  - ◆ Alkyd Resin from Cotton Seed Oil
  - ◆ Alum (Ferric & Non Ferric)
  - ◆ Alum for Paper Industries
  - ◆ Aluminium Hydroxide (I.P.)
  - ◆ Aluminium Hydroxide Gel
  - ◆ Aluminium Silicate
  - ◆ Aluminium Slug (Used for Collapsible Tube Containers)
  - ◆ Amino Acid
  - ◆ Ammonia Gas
  - ◆ Ammonia Gas Bottling Plant
  - ◆ Ammonium Nitrate
  - ◆ Ammonium Nitrate from Fertilizer
  - ◆ Ammonium Sulphate
  - ◆ Ammonium Chloride
  - ◆ Amyl Acetate
  - ◆ Anilin Oil By Hydrogenation from Benzene
  - ◆ Anti Scaling / Descaling Chemicals
  - ◆ Anhydrous Ferric Chloride
  - ◆ Antimony
  - ◆ Antimony Potassium Tartrate
  - ◆ Antimony Trioxide
  - ◆ Assaying Gold
  - ◆ Ascorbic Acid (Vitamin C) from Lemon
  - ◆ Bacteriological Grade Agar Agar
  - ◆ Barium Carbonate
  - ◆ Barium Compounds
  - ◆ Barium Nitrate
  - ◆ Basic Chromium Sulphate
  - ◆ Basic Chromium Sulphate from Waste Sulfur Dioxide
  - ◆ Beneficiation of Manganese Ore
  - ◆ Benzoic Acid
  - ◆ Benzoyl Peroxide (In Crystal Form)
  - ◆ Benzoyl Peroxide (In Powder Form)
  - ◆ Benzyl Acetate, Benzyl Alcohol, Benzyl Benzoate
  - ◆ Benzyl Alcohol
  - ◆ Benzyl Benzoate
  - ◆ Benzyl Chloride
  - ◆ Bio Gas Production
  - ◆ Bituminous Felts for Water Proofing & Damp Proofing
  - ◆ Bleaching Powder
  - ◆ B-Naphthol from Naphthalene
  - ◆ Bobin Serum Albumin
  - ◆ Boric Acid
  - ◆ Briquetting of Lignite
  - ◆ Buffing & Polishing Compound
  - ◆ Cable Jelly Compound
  - ◆ Cable Jelly Filled Compound
  - ◆ Caffeine from Tea Waste
  - ◆ CacO3 Filled Master Batches
  - ◆ Calcined Lime
  - ◆ Calcining of Magnesite & Deadburnt Manganese Oxide
  - ◆ Calcite Alumina Powder
  - ◆ Calcium Carbonate (Pre Activated)
  - ◆ Calcium Carbonate Precipitated
  - ◆ Calcium Propionate
  - ◆ Calcium Salt for Higher Fatty Acid Using Cotton Seed Oil
  - ◆ Calcium Silicate
  - ◆ Camphor Tablet (Synthetic)
  - ◆ Cancer Hospital
  - ◆ Casein from Milk
  - ◆ Caustic Soda (Sodium Hydroxide) Naoh
  - ◆ Caustic Soda Lye
  - ◆ Calcining of Magnesite & Dead Burnt Manganese Oxide
  - ◆ Calcium Carbide
  - ◆ Calcium Carbonate (Precipitated & Activated)
  - ◆ Calcium Carbonate By Using Sea Shell
  - ◆ Calcium Carbonate from Lime Stone
  - ◆ Calcium Carbonate from Marble Chips
  - ◆ Calcium Chloride
  - ◆ Calcium Gluconate
  - ◆ Calcium Hypochloride
  - ◆ Calcium Nitrate
  - ◆ Calcium Oxide (Lime Stone Powder)
  - ◆ Calcium Palmitate (Used as Cattle Feed)
  - ◆ Calcium Salt for Higher Fatty Acid Using Cotton Seed Oil
  - ◆ Calcium Sennosides and Its Products from Senna
  - ◆ Camphor Powder
  - ◆ Camphor Sheet from Camphor Powder
  - ◆ Camphor Tablet
  - ◆ Carbon Black from Natural Gas
  - ◆ Carbon Black from Dry Cell Batteries
  - ◆ Carbon Black from Fertilizer's Waste
  - ◆ Carbon Dioxide (CO<sub>2</sub>)
  - ◆ Carbon Dioxide from Boiler Exhaust Gases
  - ◆ Carbon Powder
  - ◆ Carbon Tetra Chloride
  - ◆ Carboxy Methyl Cellulose
  - ◆ Cationic Softener
  - ◆ Caustic Flakes from Sea Water
  - ◆ Caustic Soda
  - ◆ Cellulose Powder from Cotton Linter (Waste of Cotton)
  - ◆ Cellulose Acetate
  - ◆ Cellulose Powder & Microcrystalline Cellulose Powder
  - ◆ Cement Water Proofing Compound
  - ◆ Charcoal from Bagasse
  - ◆ Charcoal from Coconut Shell
  - ◆ Charcoal Powder from Rice Husk
  - ◆ Chelated Zinc (Zn-EDTA)
  - ◆ Chelated Zinc Powder (Zn-EDTA)
  - ◆ China Clay Washing/Purification
  - ◆ Chlorinated Paraffin Wax (CPW)
  - ◆ Chloroform (CHCl<sub>3</sub>)
  - ◆ Choline Chloride
  - ◆ Chromic Acid
  - ◆ Citric Acid from Molasses
  - ◆ Citric Acid from Lemon
  - ◆ CNSL Based Resin in Powder & Liquid Form
  - ◆ Coalchar from Activated Carbon
  - ◆ Cobalt Octoate
  - ◆ Construction Chemicals
  - ◆ Coolent Engines
  - ◆ Copper Sulphate
  - ◆ Copper Sulphate from Copper Ash
  - ◆ Corrosion Controlling Chemicals (Pipe Lines)
  - ◆ D.O.P. (Dioctyle Phthalate)
  - ◆ Defoaming Agent for Paper Industries
  - ◆ Dehydrated Lime
  - ◆ Derivative of Geraniol & other Alcohols Extract B-Pinene Derivative Based on Pinene
  - ◆ Dextrin from Starch
  - ◆ Dhooop (Loban) Benzoin
  - ◆ Di Calcium Phosphate from Rock Phosphate Haifa Process
  - ◆ Di-Butyl Phthalate (DBP)
  - ◆ Di-Calcium Phosphate from Rock Phosphate
  - ◆ Diethyle Phthalate (D.E.P.)
  - ◆ Dimethyl Sulphate
  - ◆ Dodecyl Benzene Sulphonate
  - ◆ DOP & other Plasticizers
  - ◆ Dough Moulding Compound (DMC)
  - ◆ D-Phenyl Glycine
  - ◆ Dry Ice By Breaking of Air
  - ◆ Dye Fixing Agent (By Cold Process)
  - ◆ EDTA and Its Salt
  - ◆ Emulsifiers for Cutting Oil
  - ◆ Endosulphan
  - ◆ Ephedrine Hydrochloride
  - ◆ Erythrosine
  - ◆ Etching Process
  - ◆ Ethanol as Bio-Fuel
  - ◆ Ethyl Acetate
  - ◆ Ethyl Alcohol from Molasses
  - ◆ Ethyl Ortho Phthalate
  - ◆ Ethyl Vanillin
  - ◆ Ethylene Diamine
  - ◆ Ethylene Glycol Mono-Stearate, Ethylene Glycol Di-Stearate
  - ◆ Ethylene Oxide By Ethylene Oxidation
  - ◆ Extraction of Chemicals From D.M.O.
  - ◆ Extraction of Gold, Silver & Copper from the Alloy By Chemical Process
  - ◆ Extraction of Lead from Lead Waste
  - ◆ Extraction of Silver from Hypo Solution (Chemical Process)
  - ◆ Fatty Acid
  - ◆ Ferric Alum
  - ◆ Ferric Alum for Water Treatment
  - ◆ Ferric Chloride (Anhydrous)
  - ◆ Ferric Chloride Solution
  - ◆ Ferric Oxide
  - ◆ Ferric Sulphate
  - ◆ Ferric Sulphate (Powder)
  - ◆ Ferro Alloy
  - ◆ Ferro Manganese (By Alumina Thermic Process)
  - ◆ Ferro Silicon
  - ◆ Ferrous Silicate
  - ◆ Ferrous Sulphate
  - ◆ Fire Works
  - ◆ Fluorine Chemical (Hydro Fluoric Acid)
  - ◆ Foaming Agent
  - ◆ Formaldehydeformic Acid
  - ◆ Formulation of Super Plasticizer
  - ◆ Fuller Earth
  - ◆ Furfural from Rice Husk/Hull
  - ◆ G. Acid
  - ◆ Gasket Shellec Compound
  - ◆ Gelatin (Edible, Pharmaceutical & Photography Grade)
  - ◆ Gelatin from Bones
  - ◆ Geraniol Derivatives & Alcohol Extract of Pinene
  - ◆ Glacial Acetic Acid
  - ◆ Glacial Acetic Acid from Methyl Alcohol
  - ◆ Gluten
  - ◆ Glycerine
  - ◆ Glycerol Monostearate
  - ◆ Gold Potassium Cyanide
  - ◆ Gold Salt
  - ◆ Gossypol
  - ◆ Ground Calcium Carbonate
  - ◆ Guar Hydroxy Propyl Triammonium Chloride

Market Survey Cum Detailed Techno Economic Feasibility Report on All Above Projects are Available. Contact :

### NIIR PROJECT CONSULTANCY SERVICES

AN ISO 9001:2008 CERTIFIED COMPANY

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## SELECTED PROJECTS FOR RIGHT INVESTMENT

- ◆ Heat & UV Stabilizers for PVC & other Engineering Plastics
- ◆ Heat and Water Proof Compound for Construction
- ◆ Hexachloro-Ethane
- ◆ Hexachloro-Ethane from Ethylene Dichloride
- ◆ Hexamine from Formaldehyde
- ◆ High Concentrated Formalin
- ◆ Hydrated Lime
- ◆ Hydrated Lime from Sea Shell
- ◆ Hydrochloric Acid
- ◆ Hydrogen Peroxide (90% or 50%)
- ◆ Hydrogen Peroxide (By Auto Oxidation Process)
- ◆ Hydrogen Peroxide By Ethyl Anthraquinone Catalytic
- ◆ Hydroxide (Naoh)-Caustic Soda
- ◆ Hydroxy Amine Sulphate
- ◆ Industrial Gases
- ◆ Industrial Salt
- ◆ Insoluble Sulphur
- ◆ International Standard Laboratories
- ◆ Iron Oxide for Making Ferrites
- ◆ Iso Propane (Isopropyl Alcohol)
- ◆ Isophthalic Acid
- ◆ Isolation of Citral & Ionones from Lemon Grass Oil
- ◆ Isophthalic Acid Resin
- ◆ L A B (Linear Alkyl Benzene)
- ◆ L-Ascorbic Acid (Vitamin C)
- ◆ Laboratory Chemicals
- ◆ Lead Oxide (Mono-Oxide, Red Lead Tetra nickel)
- ◆ Lead Oxide (Monoxide, Red & Grey)
- ◆ Lead Recovery from Scrap Battery
- ◆ Lead Stearate
- ◆ Leather Auxiliaries
- ◆ Leather Chemicals (Hydrated Lime, Chromium Sulphate, Borax)
- ◆ Lecithin from Sunflower Oil
- ◆ Lecithin (Soya Based)
- ◆ Light Magnesium Oxide
- ◆ Lime Stone Powder
- ◆ Linear Alkyl Benzene
- ◆ Liquid Oxygen Bottling Plant
- ◆ Low Carbon Ferro Manganese
- ◆ M-Dinitrobenzene
- ◆ Magnesite from Magnesite Ore
- ◆ Magnesium from Sea Water
- ◆ Magnesium Hydroxide
- ◆ Magnesium Hydroxide Powder
- ◆ Magnesium Powder (Light)
- ◆ Magnesium Sulfate as Fertilizer Grade
- ◆ Magnesium Sulphate
- ◆ Maleic Anhydride
- ◆ Manganese Sulfate from Ferromanganese Content 30% Mn<sub>2</sub>O<sub>3</sub>
- ◆ Manganese Sulphate
- ◆ Metal Paste
- ◆ Medium Grade Ferro Manganese
- ◆ Melamine
- ◆ Melamine Formaldehyde Powder
- ◆ Methyl Methacrylate
- ◆ Meta-Dinitro Benzaldehyde
- ◆ Metal Naphthenates
- ◆ Metal Paste
- ◆ Metal-Pre-Treatment Chemicals
- ◆ Metanilic Acid
- ◆ Methyl Acrylate
- ◆ Methyl Ethyl Ketone Oxime
- ◆ Methyl Ethyl Ketone Peroxide
- ◆ Methyl Ethyl Ketone Peroxide
- ◆ Methyl Salicylate
- ◆ Metrodinazole
- ◆ Micro Nutrients Mixture Solid
- ◆ Mixed Fertilizer (Chemical Based)
- ◆ Mixed Fertilizer (Organic Waste)
- ◆ Mono Ethylene Glycol
- ◆ Mono Sodium Glutamate
- ◆ Mosquito Coil
- ◆ N-Acetyl Glucosamin Through Chitin Biotechnically
- ◆ Naphtha Based Solvent
- ◆ Naphthalene Balls
- ◆ Naphthalene from Coaltar & Petroleum Waste
- ◆ Naphthole Astr
- ◆ N-Butyl Acetate
- ◆ Nickel Catalyst for Hydrogenation of Vegetable Oil
- ◆ Nicotine from Tobacco Waste
- ◆ Nitric Acid (60%) from Ammonia
- ◆ Nitro Cellulose
- ◆ Nitrous Oxide
- ◆ Non-Ferric Alum
- ◆ Non-Formaldehyde Fixing Agent
- ◆ Non-Formaldehyde Fixing Agent (Natural)
- ◆ N-Paraffin
- ◆ Ortho-Toluene Solvent
- ◆ Ossein from Bones
- ◆ Oxalic Acid from Molasses
- ◆ Oxalic Acid from Rice Husk
- ◆ Oxalic Acid from Saw Dust
- ◆ Oxalic Acid from Vegetable Waste
- ◆ Oxygen and Nitrogen Gas Plant
- ◆ Oxygen Gas Collection and Bottling Plant
- ◆ Oxygen Gas Plant
- ◆ Oxygen Gas Plant (Air Separation Method)
- ◆ Oxygen Liquid Plant
- ◆ P.V.C. Stabilizer (Lead Stearate & Calcium Stearate)
- ◆ Paint Driers
- ◆ Para Aminophenol
- ◆ Para Toluene Sulphonic Acid
- ◆ Pectin from Citrus, Lemon & Oranges
- ◆ Pectin from Orange Lime Peels
- ◆ Pectin from Raw Papaya
- ◆ Pentaerythritol
- ◆ Phenyl
- ◆ Phenyl (Black and White)
- ◆ Phenyl (Pine Oil Disinfectant)
- ◆ Phenyl Brown & White from Crude
- ◆ Phosphoric Acid from Rock Phosphate (Used of Waste Spent Acid 25% of Vinyl Sulphan Contents H<sub>2</sub>SO<sub>4</sub> + HCl)
- ◆ Photo-Emulsion for Rotary Screen Printing
- ◆ Phthalic Anhydride
- ◆ Phthalocyanine Blue & Green
- ◆ Plaster of Paris
- ◆ Poly Acetal Unit
- ◆ Poly Acrylic Acid
- ◆ Poly Aluminium Chloride (PAC. from AlCl<sub>3</sub>)
- ◆ Poly Aluminium Chloride from Aluminium Hydroxide
- ◆ Poly Aluminium Sulphate from Aluminium Sulphate
- ◆ Poly Carbonate (Dry Process)
- ◆ Poly Vinyl Alcohol
- ◆ Polyester Resin
- ◆ Polyethylene Wax
- ◆ Polyvinyl Acetate
- ◆ Polyvinyl Alcohol
- ◆ Potassium Chloride
- ◆ Potassium Cyanide (Silver & Gold)
- ◆ Potassium Dichromate
- ◆ Potassium Dichromate
- ◆ Potassium Iodate
- ◆ Potassium Iodide
- ◆ Potassium Nitrate
- ◆ Potassium Nitrate from Potassium Chloride
- ◆ Potassium Permanganate (KmnO<sub>4</sub>) In Solution form
- ◆ Potassium Silicate
- ◆ Potassium Silicate Using Autoclave
- ◆ Precipitated Calcium Carbonate
- ◆ Precipitated Silica
- ◆ Precipitated Silica from Rice Husk Ash
- ◆ Reclamation of Nickel from Spent Catalyst of Vanaspati Industry
- ◆ Reclamation of Used Bleaching Earth
- ◆ Recovery of Silver from Waste Fixer Bleach Obtained from Photo Colour Lab By Sulphide Process
- ◆ Recovery of Zinc Metal from Zinc Ash
- ◆ Red Oxide from Waste Ferrous Sulfate of H-Acid
- ◆ Red Oxide Paint Brushing, Finishing and Semi Glass
- ◆ Refrigerant Alfa - R- 134
- ◆ Ringer's Lactate Solution
- ◆ Roofing Compound & Water Proofing Compound
- ◆ Silica Jel
- ◆ Silica Sand
- ◆ Silica Sand Beneficiation
- ◆ Silicon Sealant
- ◆ Silicone
- ◆ Silicone Carbide
- ◆ Silicone Emulsion
- ◆ Silicone from Rice Husk
- ◆ Silver Extraction from Waste Hypo Solution (Chem. Process)
- ◆ Silver Extraction from Waste Hypo Solution (X-Ray/Cinema Film Bleach and from Photo Film)
- ◆ Silver Nitrate
- ◆ Single Super Phosphate & Mix NPK Fertilizers (SSP & NPK)
- ◆ Single Super Phosphate (S.S.P.) & Sulphuric Acid
- ◆ Soda Ash
- ◆ Sodium Aluminates
- ◆ Sodium Aluminium Sulphate
- ◆ Sodium Benzoate
- ◆ Sodium Bicarbonate from Soda Ash
- ◆ Sodium Carboxy Methyl Cellulose
- ◆ Sodium Chromate
- ◆ Sodium Hexa Meta Phosphate
- ◆ Sodium Hydroxide
- ◆ Sodium Hydrosulphite
- ◆ Sodium Hypo Chlorite from Waste Chlorine Gas
- ◆ Sodium Hypochloride (Bleaching Powder)
- ◆ Sodium Meta Bisulphite
- ◆ Sodium Meta-Silicate
- ◆ Sodium Nitrate
- ◆ Sodium Nitrate & Sodium Nitrate from Nitric acid Vapour of Oxalic Acid
- ◆ Sodium Petroleum Sulphonate
- ◆ Sodium Silicate from Rice/Paddy Husk
- ◆ Sodium Silicate from Silica and Soda Ash
- ◆ Sodium Sulphate (Anhydrous)
- ◆ Sodium Sulphide from Barium Compound
- ◆ Sodium Sulphide from Sulfur Caustic Soda
- ◆ Sodium Sulphite
- ◆ Sodium Tripoly Phosphate
- ◆ Softener (Cationic, Anionic & Nonionic)
- ◆ Solder Fluxes
- ◆ Solid Fuel Cake
- ◆ Solvent & Thinners
- ◆ Solvent Extraction & Refining Plant
- ◆ Solvent Extraction and Refining of Soyabean Oil
- ◆ Stearic Acid
- ◆ Strontium Carbonate
- ◆ Sulphur Milling Plant
- ◆ Sulphur Powder
- ◆ Sulphuric Acid
- ◆ Sulphuric Acid 98%, Oleum 65%, Chlorosulphonic Acid 98% (from Sulphur), & Thionielchloride (Socl<sub>2</sub> from Sulpher & Chlorine Gas)
- ◆ Super Phosphate & Mixed Fertilizer (NPK)
- ◆ Surgical Methylated Spirit
- ◆ Synthetic Iron Oxide (Yellow)
- ◆ Synthetic Ruby Sapphire
- ◆ Synthetic Tallow
- ◆ Tannic Acid
- ◆ Tartaric Acid from Maleic Anhydride
- ◆ Tartaric Acid from Tamarind
- ◆ Tartaric Acid, Food Colour, Crude Pectin, Tamarind Oil
- ◆ Textile Printing Binder
- ◆ Thio Urea
- ◆ Thio Urea (Using Carbon Disulphide)
- ◆ Titanium Dioxide
- ◆ Tri Basic Lead Sulphate
- ◆ Trisodium Phosphate
- ◆ Ultra Marine Blue (5 Mt/Day)
- ◆ Urea Formaldehyde Resin
- ◆ Water Proofing Compound (Liquid & Powder)
- ◆ Water Treatment Chemicals
- ◆ X-Ray Photography Developers & Fixer
- ◆ Yeast from Molasses
- ◆ Yellow Dextrin
- ◆ Zeolite - A
- ◆ Zinc & Copper Sulphate from Brass Ash
- ◆ Zinc Brightener
- ◆ Zinc Chloride
- ◆ Zinc Oxide (Chemical Process)
- ◆ Zinc Oxide from Zinc Dross
- ◆ Zinc Phosphate
- ◆ Zinc Phosphate By Cold Process
- ◆ Zinc Stearate
- ◆ Zinc Sulfate 21% Agricultural Grade from Waste Ash
- ◆ Zinc Sulphate
- ◆ Zinc Sulphate Micro Nutrients or Fertilizer
- ◆ Zinc Sulphate Micro-Nutrient Mixture
- ◆ Zinc-Metal from Zinc Ash
- ◆ Zircon

- ◆ COMPUTER PRODUCTS
- ◆ Compact Disc
- ◆ Computer Assembling Unit
- ◆ Computer Assembly (Hardware)
- ◆ Computer Monitor (Monochrome Monitor)
- ◆ Computer Ribbon (For Printer)
- ◆ Computer Ribbon Refilling/ Reinking
- ◆ Computer Software (EOU)
- ◆ Computer Farms & Security Printing Press
- ◆ Computer Floppy Disk Storage Box
- ◆ Compact Disc Player
- ◆ Computer Key Boards
- ◆ Computer Forms (Stationery)
- ◆ Floppy Disks
- ◆ Laptop Computers
- ◆ Plastic Floppy Storage Box
- ◆ COSMETICS, PERFUMES, FLAVOURS & ESSENTIAL OILS
- ◆ Aerosol Silicon Spray
- ◆ Aerosol Spray [Rose Flavour, Night Queen, Jasmin
- ◆ After Shave Lotion
- ◆ Agar Agar (Bacteriological Grade)
- ◆ Agar Oil from Black Agar Wood
- ◆ Agarbatti (Sticks)
- ◆ Agarbatti Synthetic Perfumery Compound
- ◆ Air Freshener & Purifiers
- ◆ Air Fresheners (Odonil Type)
- ◆ Artemisia Vulgaris Oil
- ◆ Aromatic Perfumery Compounds
- ◆ Bath Soap (Pears Type)
- ◆ Bathing Soap
- ◆ Bind
- ◆ Bindiya (Shilpa Type)
- ◆ Car Shampoo
- ◆ Cardamom Oil
- ◆ Cosmetic Industry
- ◆ Cylindrical Agarbatti Sticks
- ◆ Detol Type Antiseptic Lotion
- ◆ Dhooop Batti Sticks
- ◆ Essences for Biscuit,

Market Survey Cum Detailed Techno Economic Feasibility Report on All Above Projects are Available. Contact :

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## SELECTED PROJECTS FOR RIGHT INVESTMENT

- |  |  |   |   |
|--|--|---|---|
| <ul style="list-style-type: none"> <li>Confectionery Items (Non-Essential Flavour)</li> <li>◆ Essential Oil Form Lily, Mogra, Nishigandha</li> <li>◆ Essential Oil from Flowers</li> <li>◆ Essential Oils from Jawa Citronella Oil</li> <li>◆ Eucalyptus Oil</li> <li>◆ Extraction of Essential Oil &amp; Packaging</li> <li>◆ Extraction of Menthol Oil.</li> <li>◆ Extraction of Oil (Jeera, Ajowan, Ginger, Cardamom Oil)</li> <li>◆ Formulation of Flavours</li> <li>◆ Fractional Distillation of Essential Oil and Medicinal Plant</li> <li>◆ Garlic and Ginger Oil</li> <li>◆ Ginger Oil (Super Critical Co<sub>2</sub> Process)</li> <li>◆ Hair Dye (Godrej Type)</li> <li>◆ Hair Dye Powder</li> <li>◆ Hair Dyes (Henna Based)</li> <li>◆ Hair Oil</li> <li>◆ Hair Shampoo</li> <li>◆ Henna Paste (Self Life 6 Month)</li> <li>◆ Herbal Cosmetic</li> <li>◆ Herbal Hair Oil (Banphool Type)</li> <li>◆ Herbal Natural Essential Oil</li> <li>◆ Herbal Natural Essential oil (Steam Distillation Process)</li> <li>◆ Lemon Grass Oil</li> <li>◆ Lily Essence</li> <li>◆ Menthol Crystal Bold from Menthol Oil</li> <li>◆ Menthol Crystals</li> <li>◆ Menthol Crystals &amp; Menthol Oil</li> <li>◆ Menthol Oil, Citronella Oil &amp; Clove Oil</li> <li>◆ Nail Polish</li> <li>◆ Non Formal Dye Fixing Oil</li> <li>◆ Non-Alcoholic Flavours</li> <li>◆ Oleo-Resin &amp; Capsacin Product Extraction Plant</li> <li>◆ Oleoresin &amp; Essential Oil</li> <li>◆ Palmrosa Grass Oil</li> <li>◆ Peppermint Oil</li> <li>◆ Perfumery Chemicals Synthetic and Natural</li> <li>◆ Perfumes</li> <li>◆ Red (Lal) Tooth Powder</li> <li>◆ Rose Oil (Essential Oil from Flowers)</li> <li>◆ Rose Oil Extraction</li> <li>◆ Rose Plantation &amp; Rose Oil Extraction (Rose Essential Oil)</li> <li>◆ Sandal Wood Oil &amp; Powder</li> <li>◆ Scent &amp; Perfumes</li> <li>◆ Shampoo &amp; Creams</li> <li>◆ Vanishing Cream) Shaving Cream</li> <li>◆ Shaving Cream &amp; Shaving Soap</li> <li>◆ Sindur, Roli, Bindi &amp; Gulal</li> <li>◆ Spice Oil or Oleoresins (Extraction of Essential Oil from Spices)</li> <li>◆ Sweet Aroma of Betel Nut.</li> <li>◆ Synthetic Perfumery Compound</li> <li>◆ Talcum Powder (Face &amp; Toilet Powder)</li> <li>◆ Tejpatta Oil from Tejpatta</li> <li>◆ Talcum Powder</li> <li>◆ Tobacco Based Tooth Powder</li> <li>◆ Tobacco Flavouring Compound</li> <li>◆ Tooth Paste</li> <li>◆ Tooth Paste &amp; Powder</li> <li>◆ Tooth Paste (Gel Type)</li> <li>◆ Yara Yara (Perfumes for Soap, Detergent &amp; Agarbatti)</li> </ul> | <ul style="list-style-type: none"> <li>◆ Dyes &amp; Dye Intermediates</li> <li>◆ Erythrosine</li> <li>◆ Fast Colour Base</li> <li>◆ Lake Colour</li> <li>◆ Leather Auxiliaries</li> <li>◆ Lecithin (Soya Based)</li> <li>◆ Metal Naphthenates</li> <li>◆ Naphthalene Balls</li> <li>◆ Phthalocyanine Blue and Green</li> <li>◆ Reactive Dyes (Red, Orange, Yellow Colour) Used B-Naphthol</li> <li>◆ Synthetic Iron Oxide (Yellow)</li> <li>◆ Textile Bleaching, Dyeing &amp; Finishing</li> <li>◆ Textile Carpet Woolen Dyeing</li> <li>◆ Textile Dyeing Auxiliaries</li> <li>◆ Textile Printing Pigment Binder</li> <li>◆ Ultra Marine Blue</li> </ul> <p><b>ELECTRICAL &amp; ELECTRONIC INDUSTRIES</b></p> <ul style="list-style-type: none"> <li>◆ Air Cooler</li> <li>◆ Air Conditioner (A/C) Car &amp; Room Servicing</li> <li>◆ Air Conditioners (Window Type)</li> <li>◆ All Aluminium Alloy Conductor (AAAC)</li> <li>◆ All Aluminium Conductor &amp; Aluminium Conductor</li> <li>◆ All Aluminium Conductors</li> <li>◆ Alternator</li> <li>◆ Alternator (1 To 75 KVA)</li> <li>◆ Aluminium Electrolytic Capacitor</li> <li>◆ Aluminium Power Cables</li> <li>◆ Aluminium/Copper Cable Lugs</li> <li>◆ Aerial Bundled Cable</li> <li>◆ Armoured Cables</li> <li>◆ Audio Cassette Assembling &amp; Recording Unit</li> <li>◆ Audio Cassette Manufacturing &amp; Recording</li> <li>◆ Audio Cassettes Manufacturing</li> <li>◆ Audio Magnetic Tape</li> <li>◆ Audio Stereo Cassette Recorder Players</li> <li>◆ Audio Video Cassette Assembling</li> <li>◆ Auto Bulb/Lamp</li> <li>◆ Auto Lamps (Auto Tail Lights)</li> <li>◆ Auto Telephone Recording and Answering Machine</li> <li>◆ Automobile Battery</li> <li>◆ Bakelite Electrical Accessories</li> <li>◆ Battery (UPS, Inverter, Solar System, &amp; Automobile Battery)</li> <li>◆ Battery for Auto Vehicles</li> <li>◆ Battery Manufacturing Unit</li> <li>◆ Battery Plates &amp; Assembly</li> <li>◆ Bio Gas Power Plant from Cowdung</li> <li>◆ Button Cell (Miniature Watch Battery)</li> <li>◆ Cable Creeping Lugs, Socket &amp; Cable Creeping Tools</li> <li>◆ Calculator, Torch &amp; Alarm</li> <li>◆ Capacitors</li> <li>◆ Captive Thermal Power Plant for Glass Industry</li> <li>◆ Cassette Tape Recorder</li> <li>◆ Ceiling Fan</li> <li>◆ Choke &amp; Starter for Fluorescent Tube</li> <li>◆ Choke and Patti for Fluorescent Tube</li> <li>◆ Choke and Starter</li> <li>◆ Chokes and Patties</li> <li>◆ Clay Plate for Electric Heater</li> <li>◆ Colour Television (T.V.)</li> <li>◆ Commutators</li> <li>◆ Compact Copper Tube Light Choke</li> <li>◆ Compact Disc Rom (CD- Rom)</li> <li>◆ Compact Disk Player</li> <li>◆ Compact Fluorescent Lamps</li> <li>◆ Compressor for AC (Hermetic)</li> <li>◆ Computerized Washing Machine</li> <li>◆ Cooling Coils (For Air Conditioners)</li> <li>◆ Copper Clad Laminated Sheet Used for Making P.C.B.</li> <li>◆ Cordless Telephone</li> <li>◆ CT/PT Epoxy Casting</li> </ul> | <ul style="list-style-type: none"> <li>Transformers</li> <li>◆ Diesel Generator (20-200 KVA)</li> <li>◆ DG Set</li> <li>◆ Dish Antenna and Satellite Network Equipment</li> <li>◆ Distribution Transformer (250kva) Repairing</li> <li>◆ Distribution Transformers</li> <li>◆ Domestic Electric Cable (Cap. 1600 Coils/Day)</li> <li>◆ Domestic Refrigeration</li> <li>◆ Dry Cell Battery</li> <li>◆ Dry Cell</li> <li>◆ Dry Cells, Rechargeable Cells</li> <li>◆ Electric &amp; Ordinary Detonators (Used in Explosive for Hard Rock Cutting &amp; Blasting)</li> <li>◆ Electric Arc Furnace</li> <li>◆ Electric Bulb (GLS Bulb)</li> <li>◆ Electric Energy Meters</li> <li>◆ Electric Fan</li> <li>◆ Electric Fluorescent Tube</li> <li>◆ Electric Geyser</li> <li>◆ Electric Mixer</li> <li>◆ Electric Motor</li> <li>◆ Electric Motor Pumps</li> <li>◆ Electric Panel Board (Switch Boards)</li> <li>◆ Electric Steam Iron</li> <li>◆ Electric Water Heater</li> <li>◆ Electrical Accessories (Plugs, Switches, Sockets)</li> <li>◆ Electrical Lamp</li> <li>◆ Electrical Panel (Switch Board)</li> <li>◆ Electrical Stamping</li> <li>◆ Electro Polishing on Steel</li> <li>◆ Electronic Calculator</li> <li>◆ Electronic Choke (Ballast)</li> <li>◆ Electronic Cut Out for Automobiles</li> <li>◆ Electronic Digital Weighing Machine</li> <li>◆ Electronic Energy Meter</li> <li>◆ Electronic Horn for Automobile</li> <li>◆ Electronic Service Centre</li> <li>◆ Electronic Toys</li> <li>◆ Emergency Light</li> <li>◆ Emergency Tube Light</li> <li>◆ EPABX / EPAX System</li> <li>◆ Exhaust Fans (Cooler Fan)</li> <li>◆ F.H.P. Motors</li> <li>◆ Ferrite Magnets</li> <li>◆ Fluorescent Tube Starter</li> <li>◆ G.L.S. Bulbs/Lamps</li> <li>◆ Gas Based Power Plant</li> <li>◆ Gas Based Power Project (600 MV)</li> <li>◆ Gas Detectors of LPG</li> <li>◆ Halogen Lamps</li> <li>◆ House Wiring Cables</li> <li>◆ HT &amp; MV Industrial Cubic Switch Boards</li> <li>◆ Hydro Based Power Plant (15MW)</li> <li>◆ Immersion Heater</li> <li>◆ Information Moving Display (Lead Type)</li> <li>◆ Invertors</li> <li>◆ Jelly Filled Cables</li> <li>◆ Lamp Shades &amp; Chandliers</li> <li>◆ Light Emitting Diodes</li> <li>◆ M.C.B. (Miniature Circuit Breaker)</li> <li>◆ Maintenance Free Re-Chargeable Battery</li> <li>◆ Micro Oven</li> <li>◆ Miniature Transformer</li> <li>◆ Multilayer Printed Circuit Board</li> <li>◆ Musical Door Bell</li> <li>◆ Neon Bulb</li> <li>◆ Neon Sign Board</li> <li>◆ Neon Sign Tube and Board</li> <li>◆ Optical Fibre Cable</li> <li>◆ Optical Pickup Unit</li> <li>◆ PCB (Flexible)</li> <li>◆ PCB (Multilayer)</li> <li>◆ PCB (Totally Automatic Plant)</li> <li>◆ Plastic Cooler Body (Symphony Type)</li> <li>◆ Polyurethane Battery Separator</li> <li>◆ Porcelain Insulator</li> </ul> | <ul style="list-style-type: none"> <li>◆ Portable Television (B &amp; W)</li> <li>◆ Power Capacitor</li> <li>◆ Power Generating Unit from Agricultural Waste Heat Energy</li> <li>◆ Power Plant (5 MW/Hr) By Agro Waste</li> <li>◆ Power Plant (Hydro Based) Cap: 10 MW</li> <li>◆ Power Supply (Linear Switch Mode)</li> <li>◆ Power Transformer</li> <li>◆ Printed Circuit Board</li> <li>◆ P.V.C. Wire &amp; Cables</li> <li>◆ PVC Battery Separator</li> <li>◆ Rechargeable Battery-Maintenance Free (Sealed Lead Acid)</li> <li>◆ Re-Conditioning of Fluorescent Tube</li> <li>◆ Re-Conditioning of TV Picture Tube</li> <li>◆ Refrigeration &amp; Mini Refrigeration</li> <li>◆ Rewinding of Burnt Electric Motor</li> <li>◆ Rosin Cored Soft Soldering Wire</li> <li>◆ Satellite Receiver</li> <li>◆ Scientific Laboratory Equipment (Electronic)</li> <li>◆ Soft &amp; Hard Ferrites</li> <li>◆ Solar Cells</li> <li>◆ Solar Cooker</li> <li>◆ Solar Electrical Cell &amp; Heating Panel</li> <li>◆ Solar Energy Water Heater</li> <li>◆ Solar Photo Voltaic System</li> <li>◆ Solar Power Plant</li> <li>◆ Solar Pump</li> <li>◆ Solar Water Heaters</li> <li>◆ Steel Vacuum Flask</li> <li>◆ Submersible Pump &amp; Motors</li> <li>◆ Submersible Pump</li> <li>◆ Switch Mode Power Supply</li> <li>◆ Tape Recorder's Pinch Roller, Rubber, Drive, Belt Flat</li> <li>◆ Telephone (Push Button Type)</li> <li>◆ Terminal Connectors</li> <li>◆ Transformer/Servomotor/Relay</li> <li>◆ Un-Interrupted Power Supply (UPS)</li> <li>◆ V.C. Cooler</li> <li>◆ Variable Frequency, Variable Voltage A.C. Voltage</li> <li>◆ Video Cassette</li> <li>◆ Video Compact Disc (V.C.D.)</li> <li>◆ Voltage Stabilizer (Solid State)</li> <li>◆ Voltage Stabilizer Using IC Timer</li> <li>◆ Washing Machine</li> <li>◆ Washing Machine &amp; Geyser</li> <li>◆ Wind Energy Power Project</li> <li>◆ Winding Wires PVC Insulated for Submersible Motors</li> <li>◆ XLPE Cables</li> </ul> <p><b>ELECTROPLATING INDUSTRIES</b></p> <ul style="list-style-type: none"> <li>◆ Anodic Aluminium Labels</li> <li>◆ Aluminium Anodizing Plant</li> <li>◆ Aluminium Hard-Anodizing Unit</li> <li>◆ Chrome Plating</li> <li>◆ Electro Polishing of Steel</li> <li>◆ Electroplating of Gold &amp; Their Chemical Treatment in Golden Colour</li> <li>◆ Electroplating of Plastic</li> <li>◆ Electroplating of Various Metal</li> <li>◆ Galvanized Iron Sheet (Plain &amp; Corrugated)</li> <li>◆ Gold Electroplating on Cheaper Ornaments (Without Using Gold)</li> <li>◆ Gold Plated Silver Jewellery</li> <li>◆ Gold Plated Silver Jewellery &amp; Cutlery</li> <li>◆ Hard Chromium Plating</li> <li>◆ Silver &amp; Gold Plating on PVC and Nylon-6</li> <li>◆ Watch Case Buffing</li> </ul> <p><b>ECO-FRIENDLY PRODUCTS</b></p> <ul style="list-style-type: none"> <li>◆ Duplex Paper</li> <li>◆ Fuel Bricks from Groundnuts Soyabean Hull and Jute</li> </ul> |
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Market Survey Cum Detailed Techno Economic Feasibility Report on All Above Projects are Available. Contact :

### NIIR PROJECT CONSULTANCY SERVICES

AN ISO 9001:2008 CERTIFIED COMPANY

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## SELECTED PROJECTS FOR RIGHT INVESTMENT

- ◆ Gunny Bags
- ◆ Jute Coir, Grass Rope/ Sutti
- ◆ Jute Garments
- ◆ Jute Shopping Bags
- ◆ Jute Yarn Sutti & Hessian Cloth Weaving (Integrated Unit)
- ◆ Natural Colour & Oil (Turmeric Colour & Oil)
- ◆ Paper & Paper Board from Jute sticks
- ◆ Paper Cups
- ◆ Paper Cups for Ice Creams
- ◆ Paper Envelopes
- ◆ Paper Plates
- ◆ Paper Shopping Bag, Cup, Plate, Glass & Envelopes
- ◆ Paper Shopping Bags
- ◆ PET Bottles
- ◆ PET Bottles from Pre-Form PET
- ◆ Ply Board from Bamboo (Chinese Process)
- ◆ Poly Vinyl Alcohol Film (Cold Water Soluble)
- ◆ Wood Plastic Composite Products
- EDUCATION PROJECTS**
- ◆ Bachelor Physiotherapy College
- ◆ Bio-Tech Institute
- ◆ Culinary Institute
- ◆ Dental College
- ◆ Engineering College
- ◆ ITI Management College
- ◆ Medical College
- ◆ Medical College and Hospital
- ◆ Nursery School
- ◆ Pharmacy College (B. Pharma / D. Pharma)
- ◆ Residential School (ICGEB)
- ◆ School
- GLASS & CERAMICS INDUSTRY**
- ◆ Acrylic Mirror
- ◆ Ceramic (Porcelain) Insulator
- ◆ Ceramic Hotel Ware (Bone China)
- ◆ Ceramic Media
- ◆ Ceramic Thread Guide
- ◆ Ceramic Unit
- ◆ Ceramic Foam Filters
- ◆ Ceramic Foam Filters (Metallic Based)
- ◆ Ceramic Glazed Tiles
- ◆ Conversion of Industrial Vitrified Tiles Into Commercial Vitrified Tiles
- ◆ Fibre Glass
- ◆ Flat Glass & Float Drink Glass
- ◆ Glass Ampoules (Distilled Water)
- ◆ Glass Bangles & Glass Pressed Wares
- ◆ Glass Bottle
- ◆ Glass Fensiyent & Specific Gravity Hydro Meter
- ◆ Glass Manufacturing (Security Glass, Window Glass, Glass Basin & Elevation Glass)
- ◆ Glass Marble
- ◆ Glass Reinforced Concrete (G.R.C.)
- ◆ Glass Round Balls
- ◆ Glass Sheet
- ◆ Glass Sheet (Automatic Plant)
- ◆ Glass Sheet for Window
- ◆ Glass Sheet for Window Panes
- ◆ Glass Ware Drinking Water
- ◆ Glass Wool
- ◆ Glazed Ceramic Tiles
- ◆ Granite Slab & Tiles
- ◆ High Alumina Ceramic
- ◆ Hot & Cold Fusion of Glass
- ◆ Laminated Safety Glass
- ◆ Magnesite Bond Polishing Bricks, Resin Bond Polishing Brick & Resin Bond Final Polish for Marble & Granite
- ◆ Mirror Colouring (Pink, Black, Golden, Silver)
- ◆ Mirrors (Silver, Golden, Pink, Black and Yellow Colour)
- ◆ Non Glazed Ceramic Tiles
- ◆ Optical Glass
- ◆ Optical Lenses
- ◆ Safety Glass
- ◆ Sheet Glass / Float Glass
- ◆ Automatic Plant
- ◆ Watch Glass
- GUMS & ADHESIVES**
- ◆ Acrylic Adhesive
- ◆ Adhesive (Fevicol Type)
- ◆ Adhesive Based on Polyurethane
- ◆ Adhesive Content PVC Resin & DOP Paste Grade
- ◆ Adhesive for All Purpose
- ◆ Adhesive for Corrugation (Dry Powder)
- ◆ Adhesive for Stickers
- ◆ Adhesive from Sodium Silicate
- ◆ Adhesive Industries (Laminated Fevicol Sticker and other Types)
- ◆ Adhesive Tape for Hospital Use
- ◆ Adhesive (Starch & Polyvinyl Acetate Based)
- ◆ Adhesive Based on Vinyl Acetate (Fevicol Type)
- ◆ BOPP Pressure Sensitive Self Adhesive Tapes
- ◆ Bottle Labeling Gum
- ◆ Corrugated Cartoon Boxes Gum from Tamarind Seed Kernel (Powder Form)
- ◆ Corrugation & Pasting Adhesive (Dry Powder/Liquids)
- ◆ D.O.P. & Other Plasticizer
- ◆ Electrical Insulating Tape Using BOPP Film
- ◆ Ester Gum
- ◆ Fevicol Type Adhesive
- ◆ Glue from Bone Sinews
- ◆ Guar Gum
- ◆ Guar Gum Powder
- ◆ Gum (Liquid) Office Paste
- ◆ Gum from Tamarind Seed Powder
- ◆ Gums & Adhesive
- ◆ Hologram Sticker - 3D
- ◆ Hot - Melt Adhesive
- ◆ Hot Melt Glue
- ◆ Hot Melt Glue Stick
- ◆ Latex Adhesive
- ◆ Latex Based Adhesive
- ◆ Leather Binder (Resin Based)
- ◆ Neoprene Based Adhesive (Rubber Adhesive)
- ◆ Office Gum
- ◆ Paper Tape
- ◆ Plaster of Paris Bandages & Cotton Adhesive Tape
- ◆ Pressure Sensitive Adhesive Tape Binder
- ◆ Pressure Sensitive Adhesive for BOPP Tapes
- ◆ PVC Electrical Insulating Tape
- ◆ Rosin Sizing Agent for Paper Plant
- ◆ Rubber Solution
- ◆ Starch from Maize
- ◆ Starch from Tapioca
- ◆ Surgical Adhesive Tape on Cloth Surface
- ◆ Synthetic Gum Used in Textile Industry
- ◆ Synthetic Rubber Adhesive
- ◆ Textile Printing Paste (Gum)
- ◆ Textile Printing Binder
- HERBS/AROMATIC & HERBAL BASED PRODUCTS**
- ◆ Aloe Vera gel
- ◆ Aloe Vera Gel & Powder
- ◆ Aloe Vera Cultivation & Extraction
- ◆ Aloe Vera Gel, Juice and Powder
- ◆ Aromatic Perfumery Compound
- ◆ Aromatic Plants Cultivation & Processing
- ◆ Ark - Ajawain, Pudina, Saunf & Gulab
- ◆ Aromatic Herbal Shampoo
- ◆ Ayurvedic/Herbal Pharmacy
- ◆ Ayurvedic Churan & Tablets
- ◆ Ayurvedic Dantmanjan (Red Colour) Dabur Type
- ◆ Ayurvedic Gamaxine (Using Red Moong)
- ◆ Ayurvedic Pain Balm (Yellow & White) Zandu Type
- ◆ Ayurvedic Pain Balm Ointment
- ◆ Ayurvedic Pharmacy (Capsules, Liquid Oral, Ointment, Powder, Injection)
- ◆ Ayurvedic Raw Material from Mercury
- ◆ Ayurvedic Raw Material from Mercury
- ◆ Ayurvedic Sharbat
- ◆ Ayurvedic Tablets (Hajmola Type)
- ◆ Cardamom Oil
- ◆ Citronella Oil
- ◆ Clove Oil
- ◆ Extraction of Methi Seeds (Fenugreek)
- ◆ Hair Dyes (Henna Based)
- ◆ Hair Dyes (Henna Based) Four Colour
- ◆ Henna Paste
- ◆ Henna Paste (Self Life 6 Months)
- ◆ Henna Powder Repacking
- ◆ Herbal Cigarette
- ◆ Herbal Concentrate in the Manufacturing of Herbal Drugs & Concentrate
- ◆ Herbal Cosmetics
- ◆ Herbal Extracts
- ◆ Herbal Formulation
- ◆ Herbal Hair Oil
- ◆ Herbal Hair Oil (Banphool Type)
- ◆ Herbal Kumkum (Roli)
- ◆ Herbal Medicinal Plants Cultivation & Processing
- ◆ Herbal Natural Essential Oil
- ◆ Herbal Plantation (Medicinal)
- ◆ Herbal Shampoo & Cream
- ◆ Herbal Tooth Paste & Tooth Powder
- ◆ Herbs Plantation & Processing
- ◆ Kali Mehandi
- ◆ Lily Essence
- ◆ Medicinal Plant Extracts
- ◆ Menthol Crystal from Menthol Oil
- ◆ Patchouli Oil
- ◆ Perfumery Chemicals Synthetic and Natural
- ◆ Ras Sindhoor
- ◆ Safed Musli
- ◆ Safed Musli Cultivation & Processing
- ◆ Sennoside & its Product from Senna Leaves
- ◆ Stevia Cultivation
- ◆ Stevia Extract
- ◆ Turmeric Powder
- HOSPITALITY, ENTERTAINMENT, WARE HOUSING & REAL ESTATE PROJECTS**
- ◆ Air Taxi (Rental)
- ◆ Amusement Park
- ◆ Amusement Park Cum Water Park
- ◆ Banquet Hall
- ◆ Cinema Hall
- ◆ Club with 4 Star Hotel
- ◆ Cold Storage
- ◆ Fast Food Parlor
- ◆ Five Star Hotel
- ◆ Five Star Hotel & Shopping Mall
- ◆ Five Star Hotel, Business Center (Shopping Center), PVR, Health Club, & Banquet Hall
- ◆ Food Parlor
- ◆ Games Parlor
- ◆ Golf Course
- ◆ Green House
- ◆ Health Club, Beauty Parlor
- ◆ Holiday Resort
- ◆ Hospitals
- ◆ Hotel (Small Hotel with Banquet Halls, Restaurant and Catering Facility)
- ◆ Hotel 5 Star
- ◆ Hotel/Small Hotel
- ◆ Ice Cream Parlor
- ◆ Kids Entertainment Cum Food Center (Restaurant) at The Mall
- ◆ Market Complex
- ◆ Multiplex Cinema Hall, PVR with Shopping Center
- ◆ Multistoried Commercial Complex
- ◆ Multistory Residential Complex
- ◆ Nature Care Centre
- ◆ Nursery School
- ◆ Nursing Home
- ◆ Old Age Home, Orphan Children Hall & Dharamshala
- ◆ Recreation and Health Club
- ◆ Restaurant
- ◆ Satellite Broad Casting Channel
- ◆ Shopping Mall with Four Screen Multiplex + 3 Star Hotel
- ◆ Small Hotel/Motel, Party Room Restaurant, Fast Food Parlor & Banquet Hall
- ◆ Three Star Hotel
- ◆ Video Film Studio
- ◆ Ware House
- HOSIERY/TEXTILE/TEXTILE AUXILIARIES**
- ◆ Acrylic Blanket
- ◆ Acrylic Blanket for Warming for Human Coverage Purpose
- ◆ Acrylic Garments
- ◆ Acrylic Yarn
- ◆ Acrylic Yarn Dyeing
- ◆ Angora Rabbit Farming, Feed, Yarn from Wool, Mfg. of Shawls, Sweaters, Caps, Mufflers with Dyeing & Bleaching (EOU)
- ◆ Angora Rabbit Wool
- ◆ Baby Diaper
- ◆ Black Braided Silk (Non-Absorbable Surgical Suture)
- ◆ Blanket from Wool or Woollen Waste or Woollen Rags
- ◆ Brassieres & Panties
- ◆ Canvas Shoes
- ◆ Carding Cloth
- ◆ Carpet Weaving
- ◆ Chemically Water Proofing Process on Cotton Cloth Tarpaulin
- ◆ Children Knit Wear T- Shirt
- ◆ Cotton Buds/Swab
- ◆ Cotton Fiber from Waste Cloth
- ◆ Cotton from Waste Yarn
- ◆ Cotton Ginning & Pressing
- ◆ Cotton Yarn Dyeing
- ◆ Count Cotton Spinning Mill
- ◆ Denim Cloth
- ◆ Denim Cloth (Integrated Unit with Printing, Bleaching, Dyeing)
- ◆ Disposable Baby Diaper
- ◆ Dying of Hank Yarn for Power Loom
- ◆ Fiber from Banana Plant & Mfg. of Bags Like Jute Bags
- ◆ Furnishing Fabrics on Power Loom
- ◆ Handker-Chief
- ◆ Handloom Products (Khes, Bedsheet, Bedcovers, Furnishing Cloth)
- ◆ Hosiery & Textiles Cloth Processing & Hosiery Garments Manufacturing (Composite Mill)
- ◆ Hosiery and Tailor Lables
- ◆ Hosiery Cloth (Cotton Cloth Processing Bleaching, Dyeing, Finishing)
- ◆ Hosiery Cloth Processing (Cotton)
- ◆ Hosiery Fabric Cloth from Cotton Yarn
- ◆ Hosiery Industries (Banian & Underwear)
- ◆ Hosiery Industry
- ◆ Hosiery Industry (Gunji, Baniyan, Underwears)
- ◆ Hosiery Products (Like T- Shirt, Knitwear and Arlyc Yarn)
- ◆ Hosiery Products Like Vests, Briefs, Shirts & Nylon Cotton Knitting
- ◆ Jeans and Jackets (Denim)
- ◆ Jeans Cotton's Casual & Shirts
- ◆ Jeans, Shirts & Trousers
- ◆ Jacquard Fabrics

Market Survey Cum Detailed Techno Economic Feasibility Report on All Above Projects are Available. Contact :

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## SELECTED PROJECTS FOR RIGHT INVESTMENT

- ◆ Jute Yarn, Sutti & Hessian Cloth Weaving (Integrated Unit)
  - ◆ Knitted Fabric
  - ◆ Ladies Under Garment (Bra & Painty)
  - ◆ Mattress/Bedding (Automatic Machine)
  - ◆ Mfg. of Jeans, Trousers, T Shirts, & Kids Garments
  - ◆ Neck Tie
  - ◆ Non-Woven Carpets Cladded with Polyester Fibre
  - ◆ Open End Spinning Mill
  - ◆ Polyester Yarn from Waste
  - ◆ Polypropylene Multifilament Yarn
  - ◆ Printed Shopping Bags
  - ◆ Ready Made Garment (EOU)
  - ◆ Readymade Garment (Trousers)
  - ◆ Readymade Garments & Hosiery
  - ◆ Readymade Salwar Suit (Ladies)
  - ◆ Sanitary Napkins
  - ◆ Sanitary Napkins & Baby Diaper
  - ◆ Sanitary Napkins (Imported Automatic Plant)
  - ◆ Sewing Thread Reels and Balls Making Industry
  - ◆ Shirts (Woven) & Jeans Unit
  - ◆ Shoe Laces
  - ◆ Silk Reeling Unit
  - ◆ Socks Knitting [EOU]
  - ◆ Spinning & Carding of Wool in to Yarns
  - ◆ Spinning Mill
  - ◆ Surgical Bandages
  - ◆ Surgical Cotton
  - ◆ Surgical Cotton & Bandage
  - ◆ Tags for Readymade Garments
  - ◆ Terry Towels
  - ◆ Textile Bleaching, Dying and Finishing
  - ◆ Textile Carpet Woollen Dyeing
  - ◆ Textile Dyeing Auxiliaries
  - ◆ Textile Fabric Coating By LDPE in One Side with Embossing
  - ◆ Textile Fabric with Sides Coating By LDPE
  - ◆ Textile Printing (Pigment Binder)
  - ◆ Textile Weaving Plant
  - ◆ T-Shirts & Baniyans
  - ◆ Underwear Garment Ganji, Jangia
  - ◆ Viscose Rayon
  - ◆ Viscose Filament Yarn
  - ◆ Viscose Rayon Yarn from Cotton Linters
  - ◆ Woollen Dyeing
  - ◆ Woollen Hosiery
  - ◆ Woollen Sweaters
- INFOTECH PROJECTS**
- ◆ Business Process Outsourcing (BPO)
  - ◆ Call Centre (Domestic)
  - ◆ Call Centre (International)
  - ◆ Computer Education Institute
  - ◆ Computer Training Institute
  - ◆ Computer Software (EOU)
  - ◆ Cybercafe-Internet Browsing
  - ◆ Cyber Park
  - ◆ E-Commerce
  - ◆ Information Technology (I.T.) Training Centre
  - ◆ Internet Service Provider
  - ◆ IT Park
  - ◆ Medical Transcription Centre
  - ◆ Online Shopping Mall
  - ◆ Portal
- INKS & STATIONERY PRODUCTS**
- ◆ Ball Pen Ink Remover
  - ◆ Ball Pen Manufacturing
  - ◆ Ball Point Ink
  - ◆ Ball Point Pen Refills
  - ◆ Chalk Crayon Industry
  - ◆ Colour Wax Crayons
  - ◆ Computer Stationery
  - ◆ Dust Free Chalk Made By Calcium Carbonate
  - ◆ Exercise Note Book, Register, Pads
  - ◆ Flexo Graphic Ink
  - ◆ Flexo Gravure Printing Ink
- ◆ Hologram Sticker - 3D
  - ◆ Indelible Election Ink (from Silver Nitrate)
  - ◆ Ink for Hot Stamping Foil
  - ◆ Lead Pencils
  - ◆ One Time Carbon
  - ◆ Painting Brush
  - ◆ Plastic Files & Its Smaller Components
  - ◆ Printing Inks
  - ◆ School Chalk
  - ◆ Screen Printing Ink
  - ◆ Slate Pencils
  - ◆ Stamp Pad & Stamp Inks
  - ◆ Staple Pin
  - ◆ Tailors Chalk
  - ◆ Toner Ink for Xerox M/C
  - ◆ Wax Crayon
- JUTE & JUTE BASED PROJECTS**
- ◆ Gunny Bags (Jute Bags)
  - ◆ Gunny Bags from Jute
  - ◆ Jute Ropes/Sutti
  - ◆ Jute Shopping Bags
  - ◆ Jute Tarfelt
  - ◆ Jute Twine (Jute Rope) Cum Gunny Bag Mfg. from Raw Jute
  - ◆ Particle Board from Jute Stick
  - ◆ Paper and Paper Board from Jute Sticks
  - ◆ Mini Paper Plant from Jute Sticks
- MECHANICAL ENGINEERING AND AUTOMOBILE INDUSTRIES**
- ◆ Alloy Steel Casting
  - ◆ Alloy Steel Long Product Market & Alloy Steel Seamless Pipes
  - ◆ Alumina from Bauxite (By Calcination Process)
  - ◆ Alumina from Gibbsite Variety
  - ◆ Alumina to Aluminium & Mfg. of Profiles
  - ◆ Activated Alumina
  - ◆ Activated Alumina Balls
  - ◆ Agriculture Implements
  - ◆ Air Cooler
  - ◆ Air Filter for All Type of Auto Vehicles
  - ◆ Air Pressure Gauge (Dial Gauge)
  - ◆ Aluminium Alloy
  - ◆ Aluminium Beverages Cans
  - ◆ Aluminium Blind Rivets & Metal Clips
  - ◆ Aluminium Bottles Cold Extrusion of Aluminium
  - ◆ Aluminium Building Hardware
  - ◆ Aluminium Caps
  - ◆ Aluminium Channels, Beading & Pipes
  - ◆ Aluminium Circle
  - ◆ Aluminium Collapsible Tubes
  - ◆ Aluminium Containers
  - ◆ Aluminium Extrusion Plant
  - ◆ Aluminium Finished Articles (Job Work)
  - ◆ Aluminium Foil
  - ◆ Aluminium from Alumina
  - ◆ Aluminium Gravity Casting
  - ◆ Aluminium Ingots from Aluminium Scrap
  - ◆ Aluminium Ingots from Bauxite
  - ◆ Aluminium Powder
  - ◆ Aluminium Pressure Die Casting
  - ◆ Aluminium Sheet, Circles & Vessels
  - ◆ Aluminium Utensils
  - ◆ Aluminium Utensils & Circles
  - ◆ Aluminium Wire Drawing & Super Enameling for Winding
  - ◆ Aluminium Wire Drawing
  - ◆ Aluminium Rolling Mill
  - ◆ Aluminium & Copper Cable Lugs
  - ◆ Aluminium Aerosol Cans
  - ◆ Aluminium Alloy from Virgin Metal/Ingot/Billet
  - ◆ Aluminium Alloy from Scrap & Virgin Metal
  - ◆ Aluminium Angles, Channels, Doors & Windows
- ◆ Aluminium Beverage Can Making Plant
  - ◆ Aluminium Bottle Caps
  - ◆ Aluminium Bottle Cold Extrusion
  - ◆ Aluminium Cans for Brewery Industry
  - ◆ Aluminium Cladding (Construction)
  - ◆ Aluminium Collapsible Tubes (Printed)
  - ◆ Aluminium Extrusion
  - ◆ Aluminium Extrusion for Pipe Accessories & Building Hardware
  - ◆ Aluminium Furniture
  - ◆ Aluminium Paint
  - ◆ Aluminium Power Cables
  - ◆ Aluminium Pressure & Gravity Die Casting
  - ◆ Aluminium Printing Plates for Offset Printing Machine
  - ◆ Aluminium Ps (Pre-Sensitised) Plates
  - ◆ Aluminium Secondary Billet Casting Plant
  - ◆ Aluminium Slug (Used for Collapsible Tube Containers)
  - ◆ Aluminium Wire Drawing & Wire Mesh
  - ◆ A.P.I. Tubes
  - ◆ Assaying Gold
  - ◆ Automatic Nut & Bolts Plant
  - ◆ Auto Brake Liner
  - ◆ Auto Bulb / Lamp
  - ◆ Auto Control Cables
  - ◆ Auto Head Light
  - ◆ Auto Leaf Spring
  - ◆ Auto Wires for 3/2 Wheelers
  - ◆ Automatic Ignition Coil
  - ◆ Automatic Vending M/C for Hot & Cold Beverages
  - ◆ Automised Aluminium Powder
  - ◆ Automobile (Four Wheelers)
  - ◆ Automobile Battery
  - ◆ Automobile Brake Shoe
  - ◆ Automobile Bushes
  - ◆ Automobile Gaskets
  - ◆ Automobile Gear
  - ◆ Automobile Industry (Four Wheelers)
  - ◆ Automobile Parts (Maruti Vehicles)
  - ◆ Automobile Piston Rings
  - ◆ Automobile Products (Processing Metal & Auto Part)
  - ◆ Automobile Radiators
  - ◆ Automobile Tyre for Bus, Truck & Lorry
  - ◆ Automobile Tyre, Tubes & Flaps
  - ◆ Automobile Work Shop/Garage & Service Station
  - ◆ Automotive Filters
  - ◆ Automotive Wiring Harnesses
  - ◆ Ball Bearing
  - ◆ Ball Bearing Industry
  - ◆ Battery for Auto Vehicles
  - ◆ Battery Plate
  - ◆ Battery Plate & Assembly
  - ◆ Beneficiation of Chromium, Nickel & Manganese Ore
  - ◆ Beneficiation of Manganese Ore
  - ◆ Bentonite (Quarrying, Processing & Exporting)
  - ◆ Bicycle Plant
  - ◆ Billets from Steel Scrap by Electric Furnace
  - ◆ Bimetal Bushes with Powder Based Metallurgy
  - ◆ Bicycle Assembly
  - ◆ Bicycle Chain
  - ◆ Bicycle Manufacturing
  - ◆ Bicycle Rim
  - ◆ Black and Annealed Wire
  - ◆ Black Bar to Bright Steel Bar
  - ◆ Black Pipe Galvanizing Plant
  - ◆ Body Building (Truck & Bus)
  - ◆ Brass & Aluminium Hinges
  - ◆ Brass and Copper Tube
  - ◆ Brass Casting Pollution Control
  - ◆ Brass Door, Window Fittings
- ◆ Brass Novelty
  - ◆ Brass Pressure Die Casting
  - ◆ Brass Rolling Sheets
  - ◆ Bright Bars
  - ◆ Bright Bar (S.S.)
  - ◆ Building Hardware of Aluminium
  - ◆ C.I. Casting Foundry
  - ◆ C.I. Casting (Foundry) By Induction Furnace
  - ◆ C.N.G. Cylinders (Storage for C.N.G. Gas)
  - ◆ C.P. Bathroom Fittings
  - ◆ Calcined & Activated Alumina
  - ◆ Carbide Tips/Inserts/Indexable
  - ◆ Carbon Brush, Brush Holder Slipping
  - ◆ Carbon Brushes
  - ◆ Carburator
  - ◆ Cargo Containers (for Ship & Train)
  - ◆ Cable Creeping Lugs, Socket & Cable Creeping Tools
  - ◆ Calcined Bauxite
  - ◆ Cast Iron & S.G. Iron Castings
  - ◆ Chemical Etching of Stainless Steel
  - ◆ Ceramic Foam Filters (Metallic Based).
  - ◆ Chains (Bicycle, Scooter, Motorcycle, Moped)
  - ◆ Clean Room (Modular Panels) for Pharmaceutical
  - ◆ Clutch Lining for Four Wheeler
  - ◆ Clutch Plate for Two Wheeler
  - ◆ Clutch, Clutch Plate & Assembly for Four Wheeler
  - ◆ Cold Rolled Pressed Steel Doors & Windows
  - ◆ Cold Rolling of M.S. Strips/Sheet
  - ◆ Cold Rolled Stainless Steel Plant
  - ◆ Cold Rolling of Steel Strips
  - ◆ Composite Carbon Fibre
  - ◆ Composite Container
  - ◆ Composite Steel Re-Rolling Mill
  - ◆ Continuous Copper Rod (CCR) from Copper Scraps
  - ◆ Continuous Electro Galvanizing Cold Dip Process of Steel Strip
  - ◆ Control & Precision Instrumentation
  - ◆ Cooling Tower
  - ◆ Copper Foil
  - ◆ Copper Powder
  - ◆ Copper Powder & Aluminium Powder
  - ◆ Copper Rod from Copper Scraps
  - ◆ Copper Strip Coils from Scraps
  - ◆ Copper Utensils
  - ◆ Copper Wire Bars or Rods from Copper Scraps
  - ◆ Copper Wire Drawing
  - ◆ Copper Wire Drawing & Enamelling
  - ◆ Copper Wire Drawing, Anealline & Enamelling
  - ◆ Decoiler and Sheet Shearing Plant
  - ◆ Diamond & Gem Cutting/Polishing (All Automatic Machinery)
  - ◆ Diamond Blade
  - ◆ Diamond Tools & Wheels
  - ◆ Die Making for Sheet Metal Working
  - ◆ Diesel Engine Repairing
  - ◆ Different Types of Fire Extinguishers
  - ◆ Disposable Needles & Syringes
  - ◆ Drip Irrigation System
  - ◆ Drum & Barrels (35 To 200 Ltrs.)
  - ◆ E.R.W. Steel Conduit Pipes
  - ◆ Earth Moving Equipment
  - ◆ Electric Arc Furnace
  - ◆ Electrical Stamping
  - ◆ Electronic Horn for Automobile
  - ◆ Fasteners (Nuts, Bolts, Rivets)
  - ◆ Fasteners (Nuts Bolts, Rivets & Washers)
  - ◆ Ferrite Magnets

Market Survey Cum Detailed Techno Economic Feasibility Report on All Above Projects are Available. Contact :

### **NIIR PROJECT CONSULTANCY SERVICES**

AN ISO 9001:2008 CERTIFIED COMPANY

106-E, Kamla Nagar, Delhi-7. Ph.: 91-11-23843955, 23845886, 23845654 Mob.: 9811043595 Fax: 91-11-23841561 E-mail: npcs.india@gmail.com

## SELECTED PROJECTS FOR RIGHT INVESTMENT

- ◆ Filter (Micro Filter Inserts for Automobile)
- ◆ Filter for All Vehicles
- ◆ Fire Extinguisher
- ◆ Fire Fighting Equipments
- ◆ Fire Extinguishers (Different Types)
- ◆ Flush Doors
- ◆ Forging Unit
- ◆ Forging Unit (General)
- ◆ Foundry Sand (Non Ferrous Metal)
- ◆ G.I. Wire from H.B. Wire
- ◆ G.I. Sheet (Plain & Corrugated)
- ◆ Galvanised Iron Strips
- ◆ Galvanising of Cans for Gardening
- ◆ Galvanising of Zinc (Electrical Process)
- ◆ Galvanising of Zinc (Hot-Dip Process)
- ◆ Galvanising Plant
- ◆ Garden Tools & Fencing Accessories
- ◆ Gas Detectors of L.P.G.
- ◆ Gas Welding Torch & Nozzles
- ◆ Gold Silver Jewellery
- ◆ Gold & Platinum Jewellery Manufacturing with Die-Casting
- ◆ Graphite Carbon Plate
- ◆ Graphite Crucibles
- ◆ Graphite Electrode for Arc Furnace
- ◆ Grinding Media Ball
- ◆ Hand Pump Mark-II Unit
- ◆ Hand Tools (E.O.U.)
- ◆ Handle for Bucket
- ◆ Helmet
- ◆ Hot Dip Galvanizing
- ◆ Hot Roll Steel Bar Mill
- ◆ Hydraulic and Pneumatic Items
- ◆ Hydraulically Regulated Doors Closer (Everest Type)
- ◆ Induction Furnace Re-Rolling Unit
- ◆ Industrial Valve
- ◆ Investment Casting
- ◆ Iron Powder (Cast)
- ◆ Iron Powder from Mill Scale Scrap
- ◆ Jail for Fan [Fan Guard] [Metalic] Automatic Plant
- ◆ Kitchen Sinks (Stainless Steel)
- ◆ Kudali, Fawra, Gaiti, Belcha
- ◆ L.P.G. Cylinder & Regulator
- ◆ L.P.G. Cylinders
- ◆ L.P.G. Regulators (Domestic Purpose)
- ◆ L.P.G. Stove
- ◆ Laminated Tube (Multilayer)
- ◆ Lead Metal from Lead Ore
- ◆ Link Chain
- ◆ Locks (Aligarh Type)
- ◆ M.S. and S.S. Weld Mesh
- ◆ M.S. Binding Wires
- ◆ M.S. Hinges
- ◆ M.S. Ingots (Mini Steel Plant) 5 MT Induction Furnace
- ◆ M.S. Pipe from Strips
- ◆ M.S. Winding Wire & Annealing
- ◆ Magnet
- ◆ Material Handling Equipments
- ◆ Measuring Tapes
- ◆ Mechanical Toys
- ◆ Metal Container for Packaging
- ◆ Metal Drums & Barrels 25 To 200 Liters
- ◆ Metal Hardening
- ◆ Metallic Drum (Used for Oil Storage)
- ◆ Micro Filters for Automobile
- ◆ Micro Irrigation System
- ◆ Mild Steel Flat Bar, Square Pipes & Tubes
- ◆ Mini Steel Plant (25-T UHF Electric Arc Furnace & Hot Rolling Mill)
- ◆ Mini Steel Plant (Ingot from Ore)
- ◆ Mini Steel Plant with Production of Bar
- ◆ Muffler & Silencer Pipes for Four Wheelers
- ◆ Non-Stick Cookwares
- ◆ Non-Stick Kitchen Ware
- ◆ Nut & Bolts (Cold Formed Steel Fasteners)
- ◆ Nut and Bolts (Mild Steel)
- ◆ Oil Seals
- ◆ Open Top Sanitary Cans for Food, Pesticides, Paint
- ◆ P.P. Caps (Aluminium)
- ◆ Pad Locks/Door Locks
- ◆ Pig Iron
- ◆ Puffer Proof Caps
- ◆ Puffer Proof Crown Caps
- ◆ Piston Assembly (Aluminium Alloy)
- ◆ Piston for Internal Combustion Engine
- ◆ Piston-Rings for IC Engines (Cast Iron)
- ◆ Plant Protection Equipment
- ◆ Plastic Cladded Aluminium Squeeze Tube
- ◆ Press Steel Doors & Window
- ◆ Pressure Die-Casting
- ◆ Printed (Multi Colour) Tin Container (Air Tight)
- ◆ Printed Tin Containers
- ◆ Railway Air Break
- ◆ Razor Blade
- ◆ Refrigeration Strand Various Model
- ◆ Re-Rolling Mill for Sayria & Twisting Rod
- ◆ Re-Rolling Mill for Tor Steel
- ◆ Resin Cored Soldering Wire
- ◆ Rice Huller
- ◆ Rock Drill Bits
- ◆ Rolling Mill with Furnishing Plant
- ◆ Rolling, Bearing & Forging of Outer/ Inner Rings
- ◆ Rubber Auto Parts
- ◆ Rubbing Compound for Automobile
- ◆ S.G. Iron Casting & Malleable Iron Casting
- ◆ S.S. Alloy Steel Casting
- ◆ S.S. Bright Bars & Wire Mfg.(Cold Drawn Process)
- ◆ S.S. Cutlery
- ◆ Safety Helmet
- ◆ Safety Pin, Paper Pin, Gem Clips
- ◆ Sandwiched Bottom (Al- Alloy & S.S.) Utensils
- ◆ Seamless M.S. Tube & Pipes
- ◆ Selenium Coated Aluminium Drum Used in Plain Paper Copier
- ◆ Self Taping Steel Screws
- ◆ Sewing Needles (For Use with Domestic/Indl. Sewing M/c.)
- ◆ Silencer for Auto Vehicles
- ◆ Silencer for Two and Three Wheelers
- ◆ Silicone Metal (Cap. 25 MT/A)
- ◆ Sintered Bearing
- ◆ Sintered Bushes
- ◆ Sintered Metal Auto Components
- ◆ Solder Wire & Flux
- ◆ Sponge Iron
- ◆ Sponge Iron with Captive Power Plant (Agro Based)
- ◆ Spring Washers
- ◆ Stainless Steel Cutlery
- ◆ Stainless Steel Fastener (Washer 100% EOU)
- ◆ Stainless Steel Tube
- ◆ Stainless Steel Utensil
- ◆ Stainless Steel Wire Drawing
- ◆ Steel Balls for Ball Point Pen
- ◆ Steel Casting for Railways
- ◆ Steel Containers
- ◆ Steel Drums and Barrels
- ◆ Steel Fabrication Unit
- ◆ Steel Forging for Automobile Parts
- ◆ Steel Furniture
- ◆ Steel Ingot (Furnace)
- ◆ Steel Plant (Blast Furnace)
- ◆ Steel Plant
- ◆ Steel Re-Rolling Mill (Steel Roof & Coil from Scrap)
- ◆ Steel Rolling Mill
- ◆ Steel Safety Pins
- ◆ Steel Shot/Steel Grits
- ◆ Steel Structure Unit
- ◆ Steel Tubes & P.V.C. Pipes
- ◆ Steel Wool
- ◆ Structural Steel
- ◆ Submerged Arc Welded Pipes
- ◆ Submersible Pump Manufacture
- ◆ Super Enamelled Copper Wire
- ◆ Surgical Suture
- ◆ Taper Roller Bearing
- ◆ Thermocole
- ◆ Three Wheelers Manufacturing
- ◆ Torch & Tri-Light Unit (Integrated Plant)
- ◆ Tripod Stands, Tables & Chairs (100% E.O.U.)
- ◆ Tube Making for Umbrella
- ◆ U Bolt & Centre Bolt for Auto leaf Springs
- ◆ Vacuum Metalising Process
- ◆ Vacuum Thermoflask
- ◆ Valve Guide
- ◆ Washerless Faucet (Taps)
- ◆ Watch Straps/Chains/Belt
- ◆ Watch Case Manufacturing Unit
- ◆ Watch Straps/Chains/Bracelets / Belt (Brass & Steel)
- ◆ Welding Brass Rod
- ◆ Welding Electrodes
- ◆ Welding Fluxes
- ◆ Wick Stoves
- ◆ Wick Stoves Stainless Steel
- ◆ Wind Mill
- ◆ Wind Screen Cleaner
- ◆ Wire Mesh (Hexagonal Square)
- ◆ Wire Nail
- ◆ Wire Nail/Wire Drawing
- ◆ Zinc and Aluminium Anode
- ◆ Foundry Marine & Oil Industry
- ◆ Cold Storage & Ice Plant
- ◆ Cold Storage
- ◆ Combine Coke
- ◆ Community Hall
- ◆ Composite Carbon Fiber
- ◆ Coal Mining
- ◆ Cricket Ball, Bat
- ◆ Culinary Institute
- ◆ Daily Need Stores
- ◆ Dental College
- ◆ Departmental Stores
- ◆ Diagnostic Centre
- ◆ Diamond & Gem Cutting & Processing Unit
- ◆ Diamond Cutting & Export
- ◆ Dispensary
- ◆ Disposable Cigarette Gas Lighter
- ◆ Dry Cleaners
- ◆ Dry Cleaning and Laundry Unit
- ◆ Dry Dock
- ◆ Dry Flowers
- ◆ Engineering College
- ◆ Expansion Joint Filler
- ◆ Eye Hospital
- ◆ Fast Food Corner
- ◆ Fire Fighting Equipment, Chemicals & Refilling
- ◆ Fire Works
- ◆ Five Star Hotel (Deluxe)
- ◆ Five Star Hotel
- ◆ Five Star Hotels with Shopping Mall, Health Club, Water Park, Amusement Park, Golf Course & Golf Academy, Cottage & Openair Theatre
- ◆ Five Star Hotels, Business Center (Shopping Centre) PVR, Health Club & Banquet Hall
- ◆ Flush Door, Chip Board, Hard Board, Insulating Board
- ◆ Flush Door, Clip Board & Hardboard
- ◆ Games Parlour
- ◆ Gas Filling of L.P.G. Cylinder
- ◆ Gems Manufacturing (Original)
- ◆ Gold & Silver Jewellery
- ◆ Gold Jewellery (100% EOU)
- ◆ Golf Course
- ◆ Handicrafts (Cane & Bamboo)
- ◆ Hard Board from Saw Dust
- ◆ Hawan Samagri
- ◆ Health Club & Beauty Parlour
- ◆ Health Club Cum Beauty Parlour Cum Hair Saloon
- ◆ Heat Chamber Painting
- ◆ Holiday Resorts
- ◆ Holiday Resorts Cum Entertainment Club, 4 Star Hotel
- ◆ Holiday Village Resort
- ◆ Hospital
- ◆ Hospital (20 Beds)
- ◆ Hospital 300 Beds to 700 Beds with Teaching Facility
- ◆ Hospital Bed
- ◆ Hotel
- ◆ Hotel 5 Star
- ◆ Hotel 5 Star, 3 Star, Holiday Resorts
- ◆ Hotel/Small Motel
- ◆ International Standard Laboratories
- ◆ Kids Entertainment Cum Food Centre (Restaurant) in the Mall
- ◆ Laminated Partical Board
- ◆ Laundry
- ◆ Leasing Hire Purchase A/C
- ◆ Local Area Bank
- ◆ Low Ash Metallurgical Coke Plant
- ◆ L.P.G. Cylinder Retesting Unit
- ◆ L.P.G. Cylinder Testing Centre
- ◆ Marketing Arrangement and Distribution Strategy of Wd-40
- ◆ Marketing of Gram Shilpa
- ◆ Match Box (Manual Process)
- ◆ Match Box Plant (Automatic)
- ◆ Medical College
- ◆ Medical College, Hospital & Research Institute
- ◆ Melamine Crockery

Market Survey Cum Detailed Techno Economic Feasibility Report on All Above Projects are Available. Contact :

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## SELECTED PROJECTS FOR RIGHT INVESTMENT

- ◆ Metallurgical Coke Plant Coking Coal
- ◆ Mfg. of Coloured Joint Filler Used for Jointing Tiles
- ◆ Mineral Fillers for Application in Paint, Paper, Rubber, Plastic
- ◆ Mineral Wool
- ◆ Motel/Small Hotel with Banquet Hall, Restaurant & Catering
- ◆ Multiplex Cinema Hall, PVR with Shopping Centre
- ◆ Multistoried Commercial Complex
- ◆ Natural Care Centre
- ◆ Nursery School
- ◆ Nursing Home
- ◆ Old Age Home, Orphan Children Hall & Dharamshala
- ◆ Paint Brush
- ◆ Paint Driers
- ◆ Particle Board & Block Board with Sanding and Laminating
- ◆ Pediatric Hospital 25 Beds
- ◆ Petrol Pump
- ◆ Pharmaceutical College (B-Pharma & D-Pharma)
- ◆ Photo Lab. Cum Studio (100% Computerized)
- ◆ Plaster of Paris Bandages
- ◆ Plywood
- ◆ Plywood & Plyboard
- ◆ Plywood (Phenol Bonded)
- ◆ Pre Laminated Particle Board
- ◆ Puzzles
- ◆ PVC Joint Fillings
- ◆ Q.S.S. Colour Lab
- ◆ Quering of Lime Stone
- ◆ Recreation and Health Club
- ◆ Rehabilitation Centre for Aged & Needy
- ◆ Residential Apartments
- ◆ Residential School (C.B.S.E. Pattern)
- ◆ Restaurant
- ◆ Restaurant/Fast Food Parlour
- ◆ Rock Wool Based on Slag
- ◆ Rubber Wood Processing Plant
- ◆ Saw Mill
- ◆ School
- ◆ School (Secondary School)
- ◆ Shellac Manufacturing
- ◆ Shoe Uppers
- ◆ Slaughter House & Beef Processing
- ◆ Slimming Centre & Health Club
- ◆ Snake Park
- ◆ Sport Shoe (Automatic Imported Plant)
- ◆ Sterilize Bone Meal
- ◆ Straw Board
- ◆ Stuff Toys
- ◆ Sunmica
- ◆ Super Market (Commercial Market)
- ◆ Synthetic Floating to Fishing Industry
- ◆ Synthetic Ruby and Sapphire
- ◆ Teak Wood & Meranti Doors—Solid Semi-Solid Doors
- ◆ Tennis Ball
- ◆ Three Star Hotel
- ◆ Timber (Wood) Seasoning
- ◆ Trading Business (Computer & Related Stationery)
- ◆ Trading Business (Rice, Salt, Dry Fruits)
- ◆ Trading Business (With Packaging Rice, Salt, Pulses)
- ◆ Travelling Agency
- ◆ Venetian Blind
- ◆ Video Film Studio
- ◆ Vocational Training Institute
- ◆ Ware House
- ◆ Water Park
- ◆ Wind Mill
- ◆ Wonder Fuel (Gel Type)
- ◆ Wood Wool Industry
- ◆ Wooden Chips for Supplying to Paper Mills
- ◆ Wooden Doors, Windows, Sheets,
- ◆ TV Cabinet
- ◆ Wooden Furniture
- ◆ Wooden Furniture with Mediocre Automation
- ◆ Wooden Furniture with Seasoning Plant
- ◆ Wooden Needles for Tooth & Wooden Spoon for Ice Cream
- ◆ Wooden Tooth Pick
- ◆ Work Shop for Telco Truck
- OILS & FATS**
- ◆ Anilin Oil By Hydrogenation from Benzene
- ◆ Cardamom Oil
- ◆ Castor Oil (Batch Process)
- ◆ Castor Oil (Extraction & Refining)
- ◆ Castor Oil Derivative Oleoresin
- ◆ Chilli Oil
- ◆ Coconut Oil from Copra
- ◆ Coconut Oil in Containers (Filtration & Airtight Packaging)
- ◆ Corn Oil (Maize Oil)
- ◆ Cotton Seed Oil
- ◆ Cotton Seed Oil (Extraction & Refining)
- ◆ Extraction of Oil from Neem Seed
- ◆ Extraction of Oil from Soyabean & Cotton Seed
- ◆ Extraction of Oil from Tamarind Seed
- ◆ Extraction of Sesame, Rice Bran & Palm Oil
- ◆ Fat Liquor (Sulfated Oil)
- ◆ Garlic Oil
- ◆ Ginger Oil
- ◆ Hydrogenation of Non-Edible Oil
- ◆ Lemon Grass Oil
- ◆ Linseed Oil
- ◆ Maize Oil
- ◆ Margarine/Fat
- ◆ Mahua Oil
- ◆ Neem Oil from Seeds
- ◆ Non-Formal Dye Fixing Oil
- ◆ Palm Oil
- ◆ Patchouli Oil
- ◆ Poppy Seed Oil By Expeller Process
- ◆ Poppy Seed Oil By Solvent Extraction Process
- ◆ Rainbow Colours on Metal
- ◆ Refined Oil (Cotton Seed Ground Nut Oil & Sunflower Oil
- ◆ Refined, Bleached, Palm Oil from Crude Palm Oil
- ◆ Rice Bran Extraction & Refining
- ◆ Rice Bran Oil
- ◆ Rubber Processing Oil
- ◆ Sesame Oil from Sesame Seed
- ◆ Shortening & Liquid Palm (Olien)
- ◆ Solvent Extraction Plant
- ◆ Sun Flower Seed Oil
- ◆ Tejpatta Oil from Tejpatta
- ◆ Turkey Red Oil
- ◆ Turpentine Oil and Rosin
- ◆ Virgin Coconut Oil
- ◆ Wheat Germ Oil
- ◆ Wool Batching Oil
- PAPER & ALLIED PRODUCTS**
- ◆ Absorbent Kraft Paper
- ◆ Amonia Paper
- ◆ Baby Wet Wipes & Facial Wet Tissue
- ◆ Carbonless Paper
- ◆ Card Board Boxes & Cartoons of Paper
- ◆ Card/Gray Board from Pulp & Waste Paper
- ◆ Carton Boxes (Using Duplex Paper Board)
- ◆ Coated Paper & Board Art & Chrom
- ◆ Corrugated Board Box Plant (Printed & Laminated)
- ◆ Corrugated Sheet Board & Boxes
- ◆ Craft Paper & Special Paper
- ◆ Craft Paper from Waste Paper
- ◆ Emery Sand Paper
- ◆ Exercise Note Book & Register
- ◆ Flute Paper from Waste Paper
- ◆ Hand Made Paper
- ◆ Hand Made Paper Using Recycled Hand Made Paper
- ◆ Hard Board from Baggase
- ◆ Kraft Paper & Mill Board from Waste Cartoon Boxes
- ◆ Kraft Paper from Waste Cartoon Boxes
- ◆ Manufacturing of Recycled Paper Products
- ◆ Mini Paper Plant
- ◆ Mini Paper Plant By Waste Paper
- ◆ Mini Paper Plant from Eucalyptus Wood
- ◆ Mini Paper Plant from Jute Sticks, Wheat Husk & Rice Husk
- ◆ Paper & Paper Products
- ◆ Paper (E.C.G. & E.E.G.)
- ◆ Paper and Paper Board from Jute Sticks
- ◆ Paper Bags for General Use
- ◆ Paper Bags for White Cement
- ◆ Paper Board
- ◆ Paper Cones & Tubes
- ◆ Paper Cones & Tubes (Automatic Plant)
- ◆ Paper Cups for Ice Cream
- ◆ Paper Envelopes
- ◆ Paper from Baggase
- ◆ Paper from Bamboo
- ◆ Paper from Rice Husk & Wheat Husk
- ◆ Paper from Waste Paper
- ◆ Paper from Waste Paper, Bamboo Chips, Rice & Wheat Husk
- ◆ Paper from Wood Pulp & Bamboo
- ◆ Paper Napkin, Facial Paper & Toilet Roll from Tissue Paper
- ◆ Paper Napkins & Air Mail Paper
- ◆ Paper Plate with Silver Lamination
- ◆ Paper Plates
- ◆ Paper Shopping Bag
- ◆ Poly Coated Paper
- ◆ Printed Paper Shopping Bags
- ◆ Pulp from Bamboo & Wood
- ◆ Self-Sealing Paper Envelopes
- ◆ Silicon Release Paper
- ◆ Silicone Coated Paper
- ◆ Straw Board (Automatic Plant) from Rice Husk & Baggase
- ◆ Sundried Board from Waste Paper & Pulp
- ◆ Tissue Paper
- ◆ Tissue Paper, Toilet Paper & Air Mail Paper Roll
- ◆ Tracing Paper
- ◆ Wall Paper
- ◆ Writing & Printing Paper
- ◆ Writing & Printing Paper Plant
- PESTICIDES, INSECTICIDES & ALLIED PRODUCTS**
- ◆ Aerosol Insecticide Spray
- ◆ Ayurvedic Gamaxane (Using Red Mong)
- ◆ Bagon Spray
- ◆ Bagon Aerosol Spray for Mosquito, Insects
- ◆ Black Phenyl (Rwc 5-6)
- ◆ Copper Oxychloride
- ◆ D.D.T. Powder
- ◆ Mosquito Coil and Mats
- ◆ Mosquito Coils
- ◆ Mosquito Mats and Liquids
- ◆ Mosquito Repellant Candle
- ◆ Mosquito Repellant Liquidator
- ◆ Mosquito Repellant Oil
- ◆ Mosquito Repellant Mats
- ◆ Mosquito Repellant Agarbatti
- ◆ Pesticide Formulation
- ◆ Pesticides
- ◆ Phenyl (Black & White)
- ◆ Phenyl Pine Oil Disinfectants
- PETROLEUM, WAXES & ALLIED PRODUCTS**
- ◆ Anti-Static Lubricating Oil Used for Polyester Fibre Spinning
- ◆ Automatic Candle Making Plant
- ◆ Bees Wax
- ◆ Bitumen Emulsion Cationic Type
- ◆ Bitumen
- ◆ Bituminous Felts for Water Proofing and Damp Proofing
- ◆ Brake Fluids (Dot-3 Type)
- ◆ Brake Oil, Coolant & Packaging of Lubricant Oil & Grease
- ◆ Break Oil
- ◆ Calcined Petroleum Coke
- ◆ Candle Making Plant (Semi Automatic)
- ◆ Candle Making Unit (Automatic)
- ◆ Chloroform (CHCl<sub>3</sub>)
- ◆ Chlorinated Paraffin Wax (CPW)
- ◆ Coal Tar Pitch
- ◆ Coal Tar Distillation
- ◆ Coloured Flamed & Perfumed Candles
- ◆ Coloured Flamed Candles (Red, Blue & Green)
- ◆ Compound Wax from Residual Oil
- ◆ Coolant & Brake Oil
- ◆ Cough Syrup
- ◆ Crude Oil Refinery (Like Gasoline, Diesel, Jet Fuel, LPG, Kerosene & Bitumen)
- ◆ Cutting Oil
- ◆ Feldspar
- ◆ Furnace Oil
- ◆ Grease & Lube Oil from Used Engine Oil
- ◆ Grease Manufacturing
- ◆ Grease Manufacturing (Calcium, Lithium & Sodium)
- ◆ Grease Used for Chasis
- ◆ Jute Batching Oil
- ◆ Liquid Shoe Polish
- ◆ Lube Oil from CNSL Reduce Friction
- ◆ Lubricating Oil & Greases
- ◆ Lubricating Oils & Grease (Blending of Lubricating Oil & Manufacture of Greases
- ◆ Microcrystalline Wax from Sludge of Petroleum
- ◆ Microcrystalline Wax from Sludge of Petrochemical Refinery
- ◆ Mobile Oil (Lube) & Grease
- ◆ Paraffin Wax
- ◆ Poly Ethylene Wax
- ◆ Polyester Polyol Air Foam Mfg. By Using Petroleum Base as Raw Material
- ◆ Reclamation of Transformer Oil
- ◆ Reclamation of Used Engine oil
- ◆ Reclamation of Used Engine Oil By Alkali Refining
- ◆ Reclamation of Wax Sludge for Mfg. of Microcrystalline Wax
- ◆ Refining of Used Engine Oil for Making Base Oil
- ◆ Refining of Used Lubricating Oil
- ◆ Re-Refining of Engine Oil, Transformer Oil & Hydraulic Oil By Thin Film Distillation
- ◆ Re-Refining of Used Lubricating Oils
- ◆ Road Emulsion Bitumen or Modified Bitumen
- ◆ Shoe Polish
- ◆ Silicon Grease & Lubricants
- ◆ Sugar Cane Wax
- ◆ Transformer Oil
- ◆ Turkey Red Oil
- ◆ Wax Floor Polish
- ◆ Wetting Oil (Textile Yarn Wetting Agent)
- ◆ White Oil from Kerosene Oil
- ◆ Wire Drawing Lubricants
- ◆ Wood Polish
- PHARMACEUTICAL DRUGS & FINE CHEMICALS**
- ◆ 16 DPA (16-Dehydropreynolone Acitate)
- ◆ Adhesive Tape for Hospital Use
- ◆ Amoxycillin
- ◆ Ampicillin
- ◆ Aspirin
- ◆ Ayurvedic Churan & Tablets
- ◆ Ayurvedic Pain Balm Ointment

Market Survey Cum Detailed Techno Economic Feasibility Report on All Above Projects are Available. Contact :

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AN ISO 9001:2008 CERTIFIED COMPANY

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## SELECTED PROJECTS FOR RIGHT INVESTMENT

- ◆ Ayurvedic Pharmacy (Capsules, Liquid, Oral Ointment, Powder)
  - ◆ Ayurvedic/Herbal Pharmacy
  - ◆ Baby Health Care Food & Milk
  - ◆ Blood Collection Bags
  - ◆ Bulk Drugs
  - ◆ Camphor Tablets
  - ◆ Ciprofloxacin
  - ◆ Cloxacillin
  - ◆ Cotton Buds/Swab
  - ◆ Cough Syrup
  - ◆ Dettol Like Antiseptic Lotion
  - ◆ Dextrose (Monohydrous)
  - ◆ Dextrose 5%
  - ◆ Dextrose Anhydrous, Sorbitol, Vitamin C
  - ◆ Dextrose Injection
  - ◆ Dextrose Powder from Potatoes
  - ◆ Dextrose Saline 5% 10% 2 5 % Solution
  - ◆ Dextrose Saline Solution in Plastic Bottles
  - ◆ Disposable Baby Diaper
  - ◆ Disposable Medical Syringes
  - ◆ Disposable Needles for Syringes
  - ◆ Disposable Plastic Syringes & Needles Tube Plant
  - ◆ Distilled Water
  - ◆ Empty Gelatin Capsules
  - ◆ Gelatin from Bones
  - ◆ Glucose Saline
  - ◆ Herbal Concentrate in the Mfg. of Herbal Drugs & Concentrate
  - ◆ Herbal Extract
  - ◆ Herbal Formulation (Herbal Plant)
  - ◆ Homeopathic Sugar Globules
  - ◆ Homeopathic Medicines
  - ◆ Ibuprofen
  - ◆ Implantable Surgical Suture (Bio Medical Textile)
  - ◆ Injectables for Pharmaceutical
  - ◆ Isabgol Husk
  - ◆ I.V. Bottle (F.F.S. Technology)
  - ◆ I.V. Fluid in Plastic Bottles
  - ◆ I.V. Fluids
  - ◆ L-Ascorbic Acid (Vitamin C) from Lemons
  - ◆ Liquid Glucose from Maize and Maize Oil
  - ◆ Liquid Glucose from Potatoes
  - ◆ Medical X-Ray Film Slitting & Repacking
  - ◆ Medicinal Plant Extract
  - ◆ Metrodiazole
  - ◆ Mother Tincture & Bio Chemic Medicines
  - ◆ Paracetamol
  - ◆ Pentaerythritol
  - ◆ Pharmaceutical Grade Sugar
  - ◆ Pharmaceutical Unit (Tablet, Syrup, Capsules)
  - ◆ Pharmaceuticals (Biotech, Traditional & Generic)
  - ◆ Salicylic Acid/Aspirin
  - ◆ Saline and Injection Water
  - ◆ Sanitary Napkins & Baby Diaper
  - ◆ Starch, Liquid Glucose, Dextrose, Sorbitol
  - ◆ Sulfameth-oxazoline
  - ◆ Surgical Adhesive Tape on Cloth Surface
  - ◆ Surgical Cotton & Bandage
  - ◆ Surgical Suture
  - ◆ Tablet, Capsules, Syrup & Lotion
  - ◆ Tooth Brush & Tooth Powder/Paste
  - ◆ Tooth Paste & Tooth Powder
  - ◆ Trimethoprim
  - ◆ Veterinary Injectable Pharmaceutical Products (Liquid & Powder as per G.M.P.)
  - ◆ Veterinary Medicines (Powder, Tablets & Capsules)
  - ◆ Vitamin E
- PLANTATION**
- ◆ Amla Plantation
  - ◆ Aromatic Plants Cultivation & Processing
  - ◆ Asparagus Cultivation & Processing (100% EOU)
  - ◆ Banana Plantation & Its By Products
  - ◆ Cardamom Cultivation
  - ◆ Coconut Plantation
  - ◆ Coffee Plantation
  - ◆ Eucalyptus Tree Plantation
  - ◆ Ginger Cultivation & Storage
  - ◆ Herbal Medicinal Plant Cultivation & Processing
  - ◆ Herbal Plantation (Medicinal)
  - ◆ Maize Cultivation & Its By Products
  - ◆ Mango Plantation
  - ◆ Mustard Seed Cultivation
  - ◆ Neem Plantation
  - ◆ Palm Tree Plantation
  - ◆ Papaya Cultivation
  - ◆ Papaya Cultivation & Papain Manufacturing
  - ◆ Plantation of Medicinal Plant & Herbs
  - ◆ Poplar Plantation
  - ◆ Rose Plantation & Rose Oil Extraction (Rose Essential Oil)
  - ◆ Rubber Plantation
  - ◆ Saffron Cultivation
  - ◆ Shisham Plantation
  - ◆ Tea Plantation
  - ◆ Teak Plantation
  - ◆ Teak Plantation By Tissue Culture
  - ◆ Turmeric Plantation
- PRINTING & PUBLISHING**
- ◆ Aluminium Printing Plates for Offset Printing Machine
  - ◆ Aluminium PS (Pre-Sensitised) Plates
  - ◆ Automatic Book Binding Unit
  - ◆ Ceramic Transfers (For Printing on Ceramics)
  - ◆ Computer Farms & Security Printing Press
  - ◆ Daily News Paper Press
  - ◆ Desktop Publishing (DTP)
  - ◆ DTP Cum Offset Printing
  - ◆ DTP, E-Mail, Internet & Leased Access for Commercial Purpose
  - ◆ Flexographic & Rotogravure Printing
  - ◆ Flexographic Printing on Polyethylene
  - ◆ Graphic Art Conversion & Packing
  - ◆ Gravure Printing Cylinders
  - ◆ Heat Transfer Label for Rubber
  - ◆ Letter Press Printing Unit
  - ◆ Modern Advertisement Agency with DTP & Film Studio
  - ◆ Multi Colour 8 Page Offset Printing Unit
  - ◆ News Paper Publishing Unit
  - ◆ Offset Printing [Mini]
  - ◆ Offset Printing Press (2 Colour)
  - ◆ Offset Printing Press Single Colour
  - ◆ Offset Printing Press-4 Colour
  - ◆ Photo Polymer Coating for Plate & Block Making
  - ◆ Photo-Emulsion for Rotary Screen Printing
  - ◆ Pre-Sensitised (PS) Plates of Aluminium for Offset Printing
  - ◆ Printing Inks
  - ◆ Printing on Cartoon
  - ◆ Roto Gravure Printing
  - ◆ Screen Printing
  - ◆ Screen Printing Ink
  - ◆ Textile Printing (Pigment Binder)
  - ◆ Writing and Printing Paper
- RUBBER & PLASTIC INDUSTRIES**
- ◆ 100% Polyester Wadding
  - ◆ ABS Granules
  - ◆ Acrylic Latex
  - ◆ Acrylic Sheet & Moulded Products
  - ◆ Acrylic Sheet from Acrylic Waste
  - ◆ Acrylic Tiles (Extruded)
  - ◆ Acrylic Yarn
  - ◆ Acrylic Mirror
  - ◆ Acrylic Sheet
  - ◆ Acrylic Teeth Manufacturing
  - ◆ Air Bubble Packaging
  - ◆ Armoured Cables
  - ◆ Auto Tubes
  - ◆ Auto Tubes & Tyres for Scooter
  - ◆ Automobile Tyres for Bus, Truck, Trolley
  - ◆ Automobile Tyres, Tubes & Flaps
  - ◆ Automotive Tyre Plant (Cap. 5,00,000 Tyre/Annum)
  - ◆ Automotive Radial Tyre Plant for Car & Trucks
  - ◆ Bakelite Electrical Accessories
  - ◆ Bakelite Moulded Products
  - ◆ Bakelite Powder for Electric Goods & Pressure Cooker
  - ◆ Bakelite Sheet (Phenolic Sheet)
  - ◆ Bakelite Sheet (Fabric & Paper Base)
  - ◆ Bare Polyester Film with Metalising & Coating Process
  - ◆ Bicycle Tubes
  - ◆ Bicycle & Motor Cycle Tube
  - ◆ Bicycle Tyres 4000 Pcs./8 Hr.
  - ◆ Blood Bags
  - ◆ Blow Moulding (Plastic Containers)
  - ◆ Blood Collection Bags
  - ◆ Blow Moulded Plastic Products
  - ◆ BOPP Films
  - ◆ BOPP Pressure Sensitive Self Adhesive Tape
  - ◆ Centrifugal Rubber Latex Plant
  - ◆ Closed Cell Nitrile (Silicones Rubber Insulation)
  - ◆ Coir Foam (Rubberised Coir)
  - ◆ Colour Master Batches for Various Plastic
  - ◆ Conveyor Belting
  - ◆ Cross-Linked Polyurethane Foam
  - ◆ Cycle Tyres & Tubes
  - ◆ Disposable Dishes, Knife, Fork & Cutlery
  - ◆ Disposable Examination Plastic Gloves
  - ◆ Disposable Plastic Cup, Glasses
  - ◆ Disposable Plastic Syringes
  - ◆ Epoxy Resin
  - ◆ EVA (Ethylene Vinyl Acetate Sheet & Sole)
  - ◆ Expanded Polystyrene Board
  - ◆ Fiber Reinforced Plastics (FRP)
  - ◆ Fibre Glass
  - ◆ Fibre Glass Industries – Chopped, Stand, Mats & Woven Roving
  - ◆ Fibre Reinforced Plastic Pipes
  - ◆ Field Rubber Converted to the % Latex Rubber
  - ◆ Flexible Office Furniture Systems
  - ◆ Flexible Polyurethane Foam
  - ◆ Foam & its Products as Mattresses, Cushion, Pillows
  - ◆ F.R.P. Boat Building
  - ◆ F.R.P. Products (Fiber Reinforced Plastic Products)
  - ◆ FRP Auto Scooter Roofs/ Ceiling
  - ◆ FRP Sheet & Product
  - ◆ H.D.P.E. Bags (Stitching)
  - ◆ H.D.P.E. Film & Sheets
  - ◆ H.D.P.E. Tarpaulins
  - ◆ H.D.P.E. Woven Sacks/Stitching
  - ◆ Hard Rubber Battery Container
  - ◆ Hawai Chappal
  - ◆ Hawai Chappal & Micro Cellular Sheet Manufacturing
  - ◆ HDPE Container (All Purpose)
  - ◆ HDPE/PP Box Strapping
  - ◆ HM-HDPE Blow Moulded Containers
  - ◆ Hoses (Air-Based-Welding Hoses & Pesticides Spray Pipe)
  - ◆ Hydraulic Hoses and Clamping
  - ◆ I.V. Cannula
  - ◆ Industrial Gloves
  - ◆ Injection Moulded Plastic Products
  - ◆ Intra Venous (I.V.) Sets
  - ◆ L.P.G. Gas Pipe
  - ◆ L.P.G. Valves
  - ◆ Latex Based Adhesive
  - ◆ Latex Foam Rubber (Sponge Rubber)
  - ◆ Latex Rubber Condoms
  - ◆ Latex Rubber Thread
  - ◆ Liquid Storage Tank
  - ◆ LPG Rubber Tube (Pipe) Flexible
  - ◆ Manufacturing of HDPE & LDPE Pipes & Fittings
  - ◆ Medical X-Ray Film Slitting and Repacking
  - ◆ Micro Cellular Sheets (Rubber Sheets for Shoe Soles)
  - ◆ Moulded Luggage
  - ◆ Moulded Shoe & Hawai Chappal
  - ◆ Muffler & Silencer Pipes for Four Wheeler
  - ◆ Multi-Layer Co-Extrusion, 3-Layer Film with Lamination & Printing
  - ◆ Neon Sign Board
  - ◆ Nylon Fish Net
  - ◆ Nylon, Polyester & Polypropylene Rope Making
  - ◆ Nylon Zip Fasteners
  - ◆ Optical Fibre
  - ◆ Patches Tube Repairing Material
  - ◆ PET Bottle
  - ◆ PET Bottles from Pre-Form PET
  - ◆ PET Bottles/Containers
  - ◆ PET Pre-Form from PET Resin
  - ◆ Plastic Buckets, Bottles & Doll
  - ◆ Plastic Buttons from Polyester Sheet & Rod
  - ◆ Plastic Card (Smart Card, Credit Card, Discount Card)
  - ◆ Plastic Cards (Smart Cards) Utilised as Credit Cards
  - ◆ Plastic Collapsible Tube for Tooth Paste & Cream
  - ◆ Plastic Collapsible Tubes & Printing
  - ◆ Plastic Corrugated Sheet & Box
  - ◆ Plastic Fan Guard (Automatic Plant)
  - ◆ Plastic Felt
  - ◆ Plastic Cup, & Sheet with Printing (Flexo & Roto)
  - ◆ Plastic Granules from Scraps/Waste
  - ◆ Plastic I. V. Bottles
  - ◆ Plastic Mats Extruding & Weaving
  - ◆ Plastic Moulded Furniture
  - ◆ Plastic Moulded Furniture (Chairs)
  - ◆ Plastic Moulded Products
  - ◆ Plastic Moulded Toys
  - ◆ Plastic Office Products
  - ◆ Plastic Processing Moulds
  - ◆ Plastic Sequence
  - ◆ Plastic Spectacle Frame
  - ◆ Plastic Sutili
  - ◆ Plastic Tooth Picks
  - ◆ Plastic Toys
  - ◆ Plastic Water Storage Tank (H.D.P.E.) (Syntex Type)
  - ◆ Poly Propylene Measuring Cup
  - ◆ Polyester Film
  - ◆ Polyester Polyol Air Foam By Using Petroleum Base as Raw Material
  - ◆ Polyester Resin
  - ◆ Polyethylene Tarpaulin (PE Tarpaulin)
  - ◆ Polythene Bags
  - ◆ Polythene Bags and Automatic Printing
  - ◆ Polythene Pouches for Ghee, Butter, Milk and Oil
  - ◆ Polythene Printed Bags
  - ◆ Polyurethane Foam & Its Products
  - ◆ Polyurethane Foam (Flexible)
  - ◆ Polyurethane Pipe Section, Slab Panels, Rigid Foam, Moulding
  - ◆ Polyurethane Product (Rigid & Moulded)
  - ◆ Polyvinyl Alcohol Film (Cold Water Soluble)
  - ◆ PP Bottle
  - ◆ PU Foam (Polyurethane Foams)
  - ◆ PVC (HDPE) Water Storage Tank

Market Survey Cum Detailed Techno Economic Feasibility Report on All Above Projects are Available. Contact :

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## SELECTED PROJECTS FOR RIGHT INVESTMENT

- ◆ PVC Bottles
  - ◆ PVC Coating on G.I. Wire
  - ◆ PVC Compound from PVC Resin
  - ◆ PVC Compounding
  - ◆ PVC Conduit Pipe (Electrical)
  - ◆ PVC Extrusion Profile (Wiring Channel)
  - ◆ PVC Film
  - ◆ PVC Flexible Pipe
  - ◆ PVC Footwear
  - ◆ PVC from Ethanol
  - ◆ PVC Granules & Rigid Pipes
  - ◆ PVC Granules, Film & Bag (Printed)
  - ◆ PVC Hand Gloves
  - ◆ PVC Hoses (For Irrigation Purposes)
  - ◆ PVC Lining for Metal Crown Caps
  - ◆ PVC Pipe & Fitting
  - ◆ PVC Profiles (Door, Window and Chairs) Decorative Accessories
  - ◆ PVC Rexene Cloth
  - ◆ PVC Section Hoses
  - ◆ PVC Section Pipe
  - ◆ PVC Sheet
  - ◆ PVC Soles
  - ◆ PVC Tube
  - ◆ PVC Wires and Cables (Flexible)
  - ◆ Recycling of P.E.T.
  - ◆ Rubber (Floor Mat) for Automobile
  - ◆ Rubber Adhesives
  - ◆ Rubber Auto Parts
  - ◆ Rubber Ball for Children
  - ◆ Rubber Band
  - ◆ Rubber Band (Disco Type)
  - ◆ Rubber Baskets
  - ◆ Rubber Belting (V - Belt)
  - ◆ Rubber Compound for Automobiles
  - ◆ Rubber Floor Mat
  - ◆ Rubber Hose Pipe & Rubber Glazing
  - ◆ Rubber Hose Pipe Braided
  - ◆ Rubber Hoses for Automobiles
  - ◆ Rubber Lining & F.R.P. Lining
  - ◆ Rubber Peptizing Agents
  - ◆ Rubber Powder from Waste Tyres
  - ◆ Rubber Process Oil
  - ◆ Rubber Reclamation Industry
  - ◆ Rubber Roller & Ebonite Roller
  - ◆ Rubber Roller for Printing Machine
  - ◆ Rubber Roller for Rice Mill
  - ◆ Rubber Rollers
  - ◆ Rubber Sheet for Automobile
  - ◆ Rubber Sheet for Shoe Soles
  - ◆ Rubber Solution
  - ◆ Rubber Wood Processing Plant
  - ◆ Rubberised Coir Mattresses
  - ◆ Rubberised Cork Sheet
  - ◆ Silicon Rubber
  - ◆ Soft Luggage
  - ◆ Surgical Examination Gloves
  - ◆ Super Plasticizer (Liquid Form)
  - ◆ Synthetic Pearl Coating on Polystyrene Beads
  - ◆ Synthetic Pollen
  - ◆ Synthetic Rubber
  - ◆ Teflon Coating
  - ◆ Teflon Tape
  - ◆ Thermocol Sheet
  - ◆ Thermocol Sheet & Moulded Products
  - ◆ Thermoforming Plant Disposable Glass, Bowles & Plates (Polystyrene as Raw Material)
  - ◆ Tooth Brush
  - ◆ Transparent PVC Blown Film (PVC Rolls) Used for Industry
  - ◆ Tread Rubber Used for Cold Process
  - ◆ Tube Valves
  - ◆ Tyres & Tubes for Scooter & Motorcycle
  - ◆ Tyres Retreading By Cold Process
  - ◆ Tyre Retreading By Hot Process
  - ◆ Tyres Tubes for 2/3 Wheelers, Motor Cycle, Rickshaw
  - ◆ Unsaturated Polyester Resin
  - ◆ Water Proofing System (Polyurethane and Acrylic Based)
  - ◆ XLPE Cables
  - ◆ X-Ray Film
- SOAP & DETERGENTS**
- ◆ Acid Slurry By Manual Process
  - ◆ Blue Detergent Powder
  - ◆ Cleaning Powder (Vim Type)
  - ◆ Detergent Cake & Powder
  - ◆ Detergent Cake & Powder (Rin-Type)
  - ◆ Detergent Powder & Cake (Fena Type)
  - ◆ Detergent Powder (Nirma Type)
  - ◆ Detergent Washing Powder (Ariel Type)
  - ◆ Fena Type Detergent Powder & Cake
  - ◆ Floor Cleaner
  - ◆ Glycerin Bath Soap (Pears Type)
  - ◆ Hard Oil Soap
  - ◆ Liquid Detergent
  - ◆ Liquid Detergent for Wool
  - ◆ Metal Polish Soap
  - ◆ Soap Coated Paper
  - ◆ Softener (Cationic, Anionic, & Non Ionic)
  - ◆ Talcum Powder & Compact Powder for Face
  - ◆ Toilet & Herbal Soap
  - ◆ Toilet Closet Cleaner
  - ◆ Toilet Soap
  - ◆ Utensil Cleaning Bar
  - ◆ Washing and Laundry Soap
  - ◆ Washing Powder & Soap (Nirma Type)
- WEALTH FROM WASTE PRODUCTS**
- ◆ Acrylic Sheets from Acrylic Scraps
  - ◆ Activated Carbon from Rice Husk, Saw Dust
  - ◆ Basic Chromium Sulphate from Waste Sulfur Dioxide
  - ◆ Bio Coal Briquettes from Agriculture
  - ◆ Bio Fertilizer from Cow Dung & other Waste
  - ◆ Bricks from Fly Ash
  - ◆ Bricks from Stone Dust
  - ◆ Charcoal Powder from Rice Husk
  - ◆ Caffeine from Tea Waste
  - ◆ Carbon Black from Fertilizer Waste
  - ◆ Cement from Rice Husk
  - ◆ Coir Pith
  - ◆ Cotton from Waste Yarn
  - ◆ Extraction of Lead from Lead Waste
  - ◆ Fixture Bleach Obtained from Flute Paper from Waste Paper
  - ◆ Gelatin from Bones
  - ◆ Hard Board from Bagasse
  - ◆ Kraft Paper from Waste Cartoon Boxes
  - ◆ Kraft Paper from Bagasse
  - ◆ Lead Recovery from Scrap Battery
  - ◆ Manufacturing of Recycling Paper Products
  - ◆ Mini Paper Plant from Waste Paper
  - ◆ Municipal Garbage Treatment Plant
  - ◆ Nickel Catalyst of Vanaspati Industries
  - ◆ Nicotine from Tobacco Waste
  - ◆ Ossein from Bones
  - ◆ Oxalic Acid from Vegetable Waste
  - ◆ Oxalic Acid from Paddy Husk
  - ◆ Oxalic Acid from Saw Dust
  - ◆ Paper from Waste Paper
  - ◆ Particle Board from Agro Waste & Sugarcane Bagasse
  - ◆ Particle Board from Jute Waste
  - ◆ Particle Board from Saw Dust
  - ◆ Pectin from Orange/Lime Peels
  - ◆ Plastic Granules from Plastic Waste
  - ◆ Polyester Yarn from Waste
  - ◆ Power Generation from Agriculture Waste
  - ◆ Reclamation of Automobile Batteries
  - ◆ Reclamation of Nickel from Spent
  - ◆ Reclamation of Rubber
  - ◆ Reclamation of Transformer Oil
  - ◆ Reclamation of Used Bleaching Earth
  - ◆ Reclamation of Used Engine Oil
  - ◆ Reclamation of Wax Sludge for Manufacturing of Micro-Crystalline Wax
  - ◆ Reconditioning of Empty Cement Jute Bags
  - ◆ Reconditioning of Fluorescent Tubes
  - ◆ Reconditioning of Oil Drill Rods
  - ◆ Reconditioning of Picture Tube
  - ◆ Recovery of Nylon from Nylon Waste
  - ◆ Recovery of Silver from Waste fixer Bleach Obtained from Photo-Colour Lab & X-Ray Film, Cinema Film & Waste Hypo Solution By Sulphide Process
  - ◆ Recovery of Silver Nitrate from Ash
  - ◆ Recovery of Zinc Metal from Zinc Ash
  - ◆ Recycling of Cellulose Acetate
  - ◆ Recycling of Computer Waste
  - ◆ Recycling of Polythene and other Products
  - ◆ Recycling of PVC Scrap
  - ◆ Refining of Used Lube Oil
  - ◆ Rubber Powder from Used Tyres
  - ◆ Rubber Powder from Waste Tyres
  - ◆ Silicone from Rice Husk
  - ◆ Silver Extraction from Waste Hypo Solution
  - ◆ Sodium Hydrochloride from Waste Chlorine Gas
  - ◆ Sundrid Board from Waste Paper & Pulp
  - ◆ Tomato Product Manufacturing
  - ◆ Tomato Pulp
  - ◆ Turmeric Powder
  - ◆ Vanaspati Ghee
  - ◆ Vegetable Margarine Plant
  - ◆ Vegetable Oil (Refined)
  - ◆ Vinegar
  - ◆ Virgin Coconut Oil
  - ◆ Wheat Puff



## SELECTED PROJECTS FOR YOU

and cassia are known as tree spices, however, spices like fennel, fenugreek, garlic, onion, coriander, cumin, vanilla, saffron; etc. These spices are not used at a time. For preparation of any dish may be Indian or European, vegetarian or non-vegetarian we use more than one spice. The combination of all the spices but together for the use of one particular dish as known as 'masala' the bulk of the dry matter consists of carbohydrates, proteins, tannins, resins, volatile oil, fixed oil, for pigments, mineral, elements, etc. These constituents differ greatly in their composition and content in different spices. They have varied physical and chemical properties. Due to this reason, the processing method of different spice, differ widely and required individual expertise in operation like curing, drying, cleaning, grading and packing.

### USES & APPLICATIONS

There are a large number of dishes used commonly and on special occasions; correspondingly, there may be large variety of masalas (spices) also. However, the purpose or use of spices (a masalas) in dishes is two folds - and being the appetizer and the other being taste and appearance. Spices have a definite roll to

play in enhancing the taste and flavor of any forces. A dish of spices adds individuality to standardized foods, traditional or modern. In the indigenous system of medicine in India, spices are used widely. But, till recently, there was a prejudice in many foreign Countries That Spices Are Injurious To Health. Fortunately, This View Has Been Contradicted Recently By Research Workers In India And Abroad.

### MARKET SURVEY

India is one of the leading producers, consumers and exporters of spices. The Spices Board, under the umbrella of Ministry of Commerce and Industry, government of India, is the apex body for promoting exports of Indian Spices. Established in 1987, the Board plays an important role as a development agency for Indian spices. Its board-based activities include formulation and important role as a development agency for Indian spices. Its broad-based activities include formulation and implementation of quality improvement system, research and development programmes, imparting education and training to farmers, processors, packers and exporters on post-harvest handling, etc. For promotion of spices, the Spice Board is regularly participating in international

*Continue on page 34*

## BOOKS FOR SELF EMPLOYMENT, UNEMPLOYED YOUTH, ENTREPRENEURS, SMALL, HOME, COTTAGE, BUSINESS/PROJECTS, CANDLE MAKING, FASHION & EXPORT GUIDELINES



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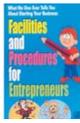
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**Just for Starters : Selected Projects to Start with 15,00,000**  
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The small scale enterprise sector is a dynamic vibrant segment of the Indian Economy. By march-2000 this sector accounted for 40% of the industrial production, 35% of the total exports and provides employment to over 17 million through over 3 million small enterprises across the country. These small Enterprises manufactures a wide range of more than 7500 products, ranging from inexpensive consumer goods and services to technically advanced products, meeting requirements of sophisticated industries and consumed in India and abroad. This sector is the nursery for the development of entrepreneurial talent and has grown into an important component of the production chain. As this sector moves ahead our Government id proactively assisting in three major thrust areas "Technology, Marketing and Credit," and Government has set up an elaborate support for promotion of small, cottage and informal industries. This book give an insight to the products to start with in order to become a part of this growing section of industries with their plant machinery, Raw material requirements as well as market and manufacturing details. ISBN:8178330229 Price: **₹475 US\$50**



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The contents of this book will guide you, step by step, to get your business up and running. You will see how to choose a business that is right for you and find the fund you need to begin and support it. This book will help you how to handle all aspect of running your own business setting up your office, marketing your product or service, getting the help your cash flow and collection, adding employees to expand more, fighting the defaulting customers and more. And you will also find out the challenges and opportunities that running a new business of your own present. You will see how your dream to be your own boss becomes a reality. ISBN:8178330903 Price: **₹325 US\$50**



**50 Project to Start With 5,00,000**  
The book has been written for the benefit of small entrepreneurs who do not wish to invest large amount and case has been taken to present the matter in a very simple and comprehensive language so that person without much technical background can grasp the subject easily. More than 50 profitable products have been included in this book with brief project profiles, processes, addresses of machinery and raw material suppliers. This is very helpful book for new entrepreneurs, consultants, libraries etc. ISBN:978-81-7833-060-0 Price: **₹475 US\$75**



**Best Businesses You Can Start With (almost) No Cost**  
When we think of starting a business our main headache is arranging the funds for it. Though we do not know exactly how much we need for a business we want to start. As such there are hundreds of small business which we can just start without worrying for a heavy investment. In the present book many small businesses have been discussed which you can start with almost no cost. Also many more important information, in regard to the government and nongovernment organisations that support entrepreneurship development in our country, have been given. Undoubtedly, this book is a gateway leading you to become your own boss. ISBN:8178330089 Price: **₹325 US\$50**



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## SELECTED PROJECTS FOR YOU

food fairs. Assisting exporters in trade fair participation and sending business delegations to identified markets for export development.

India is known as 'the home of spices'. No India meal is considered complete without the tangy and delectable flavor of Indian spices, locally known as 'masala'. Indian spices are famous the world over for their high medicinal values. There is no other country in the world that produces as many kinds of spices as India. India grows over 50 different varieties of spices. The total production is around 2.7 million tonnes. Of this, about 0.25 million tonne (8-10 per cent) is exported to more than 150 countries.

### TOMATO PASTE AND PUREES

Tomatoes are the most popular vegetable in the home garden. Tomatoes are widely grown in all parts of the world. They are available in a variety of sizes, shapes, and colors—including red, yellow, orange, and pink. Sizes vary from the bite-sized cherry tomatoes to the giant beefsteak varieties. Tomatoes may be round, oblate (fruit are flattened at the top and bottom), or pear-shaped. Tomatoes are low in calories and a good source of vitamin C and antioxidants.

Tomato, like other vegetables/fruits is a perishable commodity and has a shorter shelf life in normal temperature. Therefore, problems are faced in the supply chain due to non-existence of a cold chain system in the country which results in losses of product and drastic price variations. Tomato Paste provides a way out with extremely positive outcome both commercially and financially. Indeed, tomato consumption by the food processing industry revolves around the availability of user friendly intermediate products like tomato paste, puree, ketchup and sauces. Products, such as tomato paste/puree have potential demand with local fruit/vegetable processors as well as the retail market. Establishment of tomato processing facilities in the country can contribute in reducing the dependence of local industry on imported tomato paste. Tomato paste and puree are commonly consumed commodities in every household. It is liked by one and all because of its sweet sour taste.

#### USES & APPLICATIONS

The products suggested are sauce, ketchup and puree. They are made from tomato juice and many other ingredients and preservatives are added to it to enhance its shelf life and taste. These products are consumed by people of all age groups and demand is going up. These products can be made in states like Maharashtra, Gujarat, Karnataka, UP, HP, North Eastern states and so on.

#### MARKET SURVEY

Tomato processing industry is the pioneering sector in food processing industry. Although the dominant traditional processing line is tomato paste processing, peeled and diced tomatoes are the other promising products. Tomato paste processing plants are also suitable to process other fruits and vegetables during off season.

There are many established national as well as regional brands but they have captured mainly the urban and elite markets and for a quality product, there is a vast market which can be penetrated by offering competitive prices. Apart from a growing household market, other lucrative segment is eateries, restaurants, sandwich makers, fast food joints etc. Marketing would play a crucial role and placement, publicity, commission to retailers etc. are important aspects.

Processed and conned tomato paste and tomato puree are consumed by urban households, hotels, restaurants, hospitals and the like. These products are supplied both from domestic production and imports.

#### Cost Estimation

Capacity	: 500KGS/day
Plant & Machinery	: 12 Lakhs
Total Capital	
Investment	: 112 Lakhs
Rate of Return	: 50 %
Break Even Point	: 40 %

#### Cost Estimation

Capacity	: 20 MT/Day
Plant & Machinery	: 80 Lakhs
Total Capital	
Investment	: 1008 Lakhs
Rate of Return	: 49 %
Break Even Point	: 33 %

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### The Complete Technology Book On **Chemical Industries**

This book should be of great value to young chemical engineers and chemists who are just entering the field but those already practicing will find much of interest and use for broadening their insight in to fields in which they are only marginally informed. It is hoped that this book will aid to young engineers, chemical, civil, mechanical and electrical as well as chemists, in understanding the value of chemical, the type of problems met in their production and method for solving these problems. **₹975 US\$100**

### Modern Technology of **Petroleum, Greases, Lubricants & Petrochemicals**

Lubricants, Greases and Petrochemicals are most versatile on the industrial Plateau now a days. The significance of Lubricants, Greases & speciality products in the day-to-day functioning of nearly every machine part, instrument, appliance & device can not be over emphasized lubricants reduce friction & wear between rubbing parts, there by enhancing their life. The basic object of this book is to furnish comprehensive information about nearly all prominent types of Lubricants, Greases & Petrochemicals. This book covers formulae, processes of various petroleum items. **₹1100 US\$100**

### **Industrial Chemicals Technology Hand Book**

The book contains manufacturing processes, reactions, equipments details, process flow diagram of number of chemicals, which have huge industrial uses. This book is very useful for new entrepreneurs, industrialists, consultants, research scholars, technical institutions, chemists and libraries. **₹1100 US\$125**

### Hand Book on **CHEMICAL INDUSTRIES (ALCOHOL BASED)**

Alcohol is a very valuable material which has variety of uses such as for production of chemicals, as a source of energy and fuel etc. The book covers manufacturing details of various alcohol based chemicals. **₹750 US\$100**

### **Speciality Plastics, Foams (Urethane, Flexible, Rigid) Pet & Preform Processing Technology Handbook**

Polymer science is a specialised phase of organic chemistry, except in the case of inorganic silicones. Plastic technology is one of the fields where people can show their ability and performance both theoretically and practically. The book covers processes and other required information for the manufacturing of different Speciality plastics, Foams, PET and Pre-form PET etc. **₹1275 US\$125**

### The Complete Technology Book on **Expanded Plastics, Polyurethane, Polyamide and Polyester Fibres**

Expanded plastics are also known as foamed plastics or cellular plastics. Expanded plastics can be flexible, semi flexible, semi rigid or rigid. They can also be thermoplastic or thermosetting and can exist as open-celled or closed-celled materials. The Polyurethanes are among the most recent additions to the many commercially important classes of polymers. Urethanes can be considered esters of the unstable carbamic acid or amide esters of carbonic acid. The present book covers processes of expanded plastics, polyamides with other related information required by an entrepreneur. **₹1275 US\$125**

### The Complete Technology Book on **POLYMERS (with Processing & Applications)**

Three factors are essential for any successful processing of polymers, namely materials, machinery and process control. The materials presently used comprise all existing thermoplastics and thermosets in the molecular weight range from 15000 to several million. Polymers have importance in manufacturing of various domestic and industrial products. The present book covers the latest technology of polymer processing and its related products. This is very useful book for new entrepreneurs, professionals, technocrats, researchers and technological institutions etc. **₹1100 US\$125**

### The Complete Technology Book on **WAX AND POLISHES**

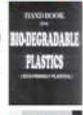
Wax and polishes are used for many purposes. Wax has their principal use in waterproofing. Some other important uses are in candles, polishes, electrical insulation, coatings and carbon paper. There are various types of polishes having industrial and domestic applications. The purpose of this book is to present a comprehensive information of different types of wax and polishes like their processing, properties and uses. **₹1675 US\$150**

### The Complete Technology Book on **Industrial Polymers, Additives, Colourants and Fillers**

It is well known that the major consumption of additives is in PVC compounds. Approximately 80% of additives are being used in PVC, however the left over 20% is consumed in compounding of other thermoplastics. Plastic master batches and fillers have their own importance in plastic processing industries. The present book through light on processing of industrial polymers, additives, colourant and fillers. **₹1100 US\$125**

### The Complete Book on **Biodegradable Plastics and Polymers**

(Recent Developments, Properties, Analysis, Materials & Processes)  
In response to public concern about the effects of plastics on the environment and in particular the damaging effects of sea litter on animals and birds, legislation is being enacted or is pending in many countries ban non-degradable packing, finishing nets etc. Waste plastics suffocate soil, clog drainage and lead to a whole lot of ecological problems they have debilitating effect on ecology. Environmentally acceptable degradable polymers have been defined as polymers that degrade in the environment by several mechanisms and culminate in complete biodegradation so that no residue remains in the environment. The present book gives thorough information to biodegradable plastic and polymers. **₹1275 US\$125**



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**Books & Directory on HERBAL, CULTIVATION, HERBAL PRODUCTS  
 COSMETICS, AYURVEDIC MEDICINES**

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**HERBAL COSMETICS &  
 AYURVEDIC MEDICINES (EOU)**

This book is very useful for entrepreneurs, industrialists, project consultants, libraries etc. and has special reference for Herbal Cosmetics and Ayurvedic Medicines with formulae, processes, foreign buyers, Machinery and raw material sources, project profiles etc. ₹975 US\$100



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**With Formulae, Processes, Uses And Analysis**  
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**With Formulae, Processes & Their Uses**  
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Medicinal plants have been used as a major source of therapeutic agents by human being for thousands of years. Ancient men obtained more than 90% of his medicaments from higher plants. However, the importance of plants as a source of drugs decreased to certain extent. In spite of the fact that synthetic drugs and antibiotics have improved the life expectancy of man, plants still constitute as one of the major sources of raw materials for drugs all over the world. This particular book clearly described the original source of such drugs, which is beneficial to scientists and scholars. ₹1000 US\$100



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Food has been a basic part of our existence. Through the centuries we have acquired a wealth of information about the use of food as a part of our community, social, national and religious life. It has been used as an expression of love, friendship and social acceptance without knowing the medicinal values of such food. This book for the first time reveals the exact medicinal characteristics and how it works and cures the different disease to make mankind healthy. ₹1275 US\$125



**Handbook On  
 Medicinal Herbs With Uses**

Medicinal herbs are the local heritage with global importance. World is endowed with a rich wealth of medicinal herbs. The Variety and sheer number of plants with therapeutic properties is quite astonishing. Medicinal herbs have curative properties due to presence of various complex chemical substance of different composition, which are found as secondary plant metabolites in one or more parts of these plants. These plant metabolites, according to their composition, are grouped as alkaloids, glycosides, corticosteroids, essential oils etc. During the past decade, a dramatic increase in exports of medicinal herbs attests to worldwide interest in these products as well as in traditional health systems. The pharmaceutical industries have made massive investment on pharmacological, clinical and chemical researches all over the world in past five decades. Efforts have been made to discover still more potent plant drugs. ₹1075 US\$125



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 Neem and Allied Products**

The neem tree, which is also known as Margosa or Indian lilac, grown extensively in Asian and African countries. The neem is very useful tree due to its medicinal and insecticidal properties and can be grown even under semi arid and subhumid conditions upto 700m above sea level. The book covers cultivation of neem and processing of its products. ₹975 US\$100



**The Complete Technology Book On  
 HERBAL BEAUTY PRODUCTS WITH  
 FORMULATIONS AND PROCESSES**

Indian Medical System advocates the use of medicinal plants as drug source. Drugs obtained from plant origin occupy important position in different pharmacopoeist. Products from natural sources are an integral part of human health care system because of major concern about synthetic drugs and their side effects and toxicity. The ancient Indian system of medicine needs verification on modern scientific basis. An attempt to blend ancient and modern science as well as art could be fruitful and such attempts must be carried out on sound scientific basis. ₹1100 US\$125



**HERBAL COSMETICS  
 Hand Book**

This is the first book of its kind which contains formulae and processes of various herbal cosmetics like cosmetic for the skins, cosmetics for bath purpose, cosmetics for nails, cosmetics for hair, oral cosmetics, analysis of cosmetics, test methods, machinery and raw material suppliers etc. ₹1500 US\$150



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 (Forest Based)**

The forest in India yields a large number of products, which play an important role in the economy of the country. This book contains processes of forest based products like Gums, Resins, Essential Oils and other natural products obtained from Indian forests. It gives an insight of richness and vastness of the forest wealth. This book is first of its kind, which covers comprehensive treasure of information on a wide variety of forestry products. ₹1275 US\$125



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The book contains systematic account of the most important plants used in medicines. Each chapter covers botanical descriptions, parts used, Ayurvedic properties, clinical uses, constituents with the figure of the plant. ₹875 US\$100



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Aloe Vera is a semi tropical plant. There are over 250 species of Aloe grown around the world. It contains more than two hundred tonic ingredients including essential amino acids, minerals, vitamins, enzymes and steroids. Also contains the most essential components required by the human body. It is grown wild in hedge-rows in dry soil conditions and almost all parts of India. It can be grown even under constant drought conditions. Commercial cultivation and utilization of this plant with the application of technology can be of great value. ₹1275 US\$125

