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# ENTREPRENEUR INDIA

An Industrial Monthly Journal on  
 INDUSTRIAL DEVELOPMENT, TECHNOLOGIES & PROJECT OPPORTUNITIES

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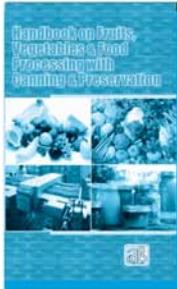
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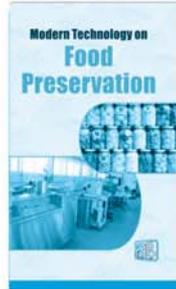
36 Pages



Rs. 1475/- US \$ 150

## Handbook on Fruits, Vegetables & Food Processing with Canning & Preservation

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. Canning is a method of preserving food in which the food is processed and sealed in an airtight container. Food preservation is the process of treating and handling food to stop or greatly slow down spoilage (loss of quality, edibility or nutritive value) caused or accelerated by micro organisms. One of the oldest methods of food preservation is by drying, which reduces water activity sufficiently to prevent or delay bacterial growth. Drying also reduces weight, making food more portable. Freezing is also one of the most commonly used processes commercially and domestically for preserving a very wide range of food including prepared food stuffs which would not have required freezing in their unprepared state. The present book covers the processing techniques of various types of fruits, vegetables and other food products. This book also contains photographs of equipments and machineries used in fruits, vegetables and food processing along with canning and preservation. The book is an invaluable resource for new entrepreneurs, food technologists, industrialists etc.



Rs. 1275/- US \$ 125

## Modern Technology on Food Preservation

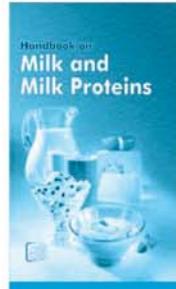
Food Preservation has become an integral part of the food processing industry. There are various methods of food preservation; drying, canning, freezing, food processing etc. Food processing is one of the method of food preservation which is the set of methods and techniques used to transform raw ingredients into food or to transform food into other forms for consumption by humans or animals either in the home or by the food processing industry. Canning is one of the various methods of food preservation in which the food is processed and then sealed in an airtight container. This process prevents microorganisms from entering and proliferating inside. 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. Relevant information on enzymes, colours, additives, flavours, adulteration, etc., has been given. This book also contains photographs of equipments and machineries used in food preservation. The book will be very useful for new entrepreneurs, food technologists, industrialists, libraries etc.



Rs. 475/- US \$ 50

## SELECT & START YOUR OWN INDUSTRY

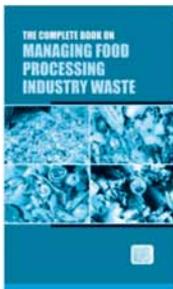
Entrepreneurship is one of the critical decisions to be made. It involves number of risk and has its own advantages also. But the charm of being a master of you is always above any other form of work. To start your own venture you have to decide on many things. Making a choice of the right project is a difficult decision for an entrepreneur and is an imperative decision. A successful entrepreneur not only creates employment for himself but for hundreds. Deciding on a right project can lead you to the road to success. To help budding entrepreneurs this book contains more than 350 project profiles with project capacity, cost of project, rate of return etc. Identification, the first stage of the project cycle, is a crucially important process leading to the initial screening of projects. This book serves useful purpose for Project identification and help to project consultants, engineers, chartered accountants, corporates, individuals including entrepreneurs, financiers, contractors, investors and those who wish to gather at a glance information on the various projects.



Rs. 1275/- US \$ 125

## Handbook on Milk and Milk Proteins

Proteins play an important role in nutrition, taste, allergies, texture, structure, processing and yield performance. In the food industry, proteins are a key element of our diet and an important ingredient for food technologists. In recent years, there has been a great deal of progress in the understanding and management of milk proteins across the production chain. This book provides a complete overview and offers insights into topics for more in-depth reading on milk and milk proteins. The book covers chapters on milk proteins, biosynthesis & secretion of milk proteins, utilization, types of milk proteins, phosphorylation, milk glycoproteins and many more. It is hoped that this book will be very helpful to all its readers, students, new entrepreneurs, food technologist, technical institution and scientists.



Rs. 1275/- US \$ 125

## THE COMPLETE BOOK ON MANAGING FOOD PROCESSING INDUSTRY WASTE

Food industry produces large volumes of wastes, both solids and liquid, resulting from the production, preparation and consumption of food. Food processing wastes have a potential for conversion into useful products of higher value as by-product, or even as raw material for other industries, or for use as food or feed after biological treatment. Food industry should also have to concentrate on waste avoidance as well as utilization of process wastes. All the combined efforts of waste minimization during the production process, environmentally friendly preservation of the product, and utilization of by-products would substantially reduce the amount of waste, as well as boost the environmental aspect of food processing industry. This book gives a complete detail on invaluable waste management concepts, utilization of by-products and the practical methods to implement them. This book deals on the techniques and methods for food processing wastage. It is hoped that this book will be very helpful to all its readers, technical institution, food technologists, technocrats, existing industries, new entrepreneurs, etc.



₹ 1475/- US \$ 150

## Gums, Adhesives & Sealants Technology (with Formulae & their Applications)

Naturally occurring polysaccharides from plant exudates have been in use from many decades in immense quantities. Natural gums are natural polymers, which mainly consists of carbohydrates sometimes with small amounts of proteins and minerals. Adhesive or sealant is a mixture in a liquid or semi-liquid state that is capable of holding materials together by surface attachment. Adhesives and sealants are used as a raw material for the manufacturing industry or for the service of different processing industries. Adhesives and sealants virtually touch every part of our lives. The adhesives and sealants are two chemically similar but functionally different groups of formulated products. 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.

## 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**



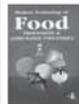
### The Complete Technology Book On **SNACK FOODS**

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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## ABOUT US



*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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# ADIPONITRILE

Adiponitrile is the organic compound with the formula  $(\text{CH}_2)_4(\text{CN})_2$ . This dinitrile, a viscous, colourless liquid, is an important precursor to the polymer nylon 66. It is the key molecule for nylon 66 production. In the original DuPont process it was produced from adipic acid, but this synthesis was uncompetitive. Adiponitrile (also called 1,4-dicyanobutane) is a clear to yellow liquid, melting point at 1-3°C. It is slightly soluble in water but soluble in alcohol and chloroform. It is derived from 1,4-Dicyanobutylene, which is yielded by dichlorobutylene with sodium cyanide. The main identified use of adiponitrile is as an intermediate for the production of hexamethylenediamine, used for the manufacture of Polyamide 6-6. Adiponitrile is used as intermediate for the synthesis of adipoguanamine, corrosion inhibitors, and rubber accelerators.

## APPLICATIONS

Adiponitrile (ADN) is a critical intermediate used to manufacture nylon 6,6. Adiponitrile (ADN) is used almost exclusively to make hexamethylene diamine (HMDA), which is used to make nylon 6,6 fibres and resins.

## ADIPONITRILE PURIFICATION

The principal use of adiponitrile is as an intermediate for the manufacture of hexamethylene diamine (1,6-diaminohexane) which is a co-monomer for the manufacture of Nylon 6,6. There are several different manufacturing processes for adiponitrile including direct addition of HCN to butadiene, electro-dimerization of acrylonitrile, and amidation and dehydration of adipic acid. Impurities that are produced by these processes can be converted to cyanoketones or cyanoimines by contacting the adiponitrile product with a strong acid catalyst such as Amberlyst 15.

These compounds are then removed by contact with a strong base anion exchange resin in the hydroxide form. Finally, residual ammonia or amine can be removed by contacting with a polishing bed of strong acid cation exchange resin.

## MARKET SCENARIO

World demand is estimated at 1.2 million metric tonne per year. Demand growth is about 1.5% per year, entirely accounted for by a 1.5% per year growth in nylon 6,6 engineering resin. There is some demand growth for nylon 6,6 fibre in Asia, mainly for tyre cord, but this is balanced by declining demand for textile filament in developed countries where textile industries are under siege from low-cost production in Asia, especially China.

Nylon 6,6 has been losing market share to nylon 6 in recent years because it has been marketed as a premium product and is sold at higher price compared with nylon 6. Global capacity for hexamethylene diamine was about 1.62 million metric tonnes per year and worldwide ADN capacity was about 1.46 million metric tonnes per year.

## VINYL FORMAMIDE

Vinyl formamide (VFA) is an important feedstock for water soluble, cationic polymers. VFA is used in the paper industry to increase the efficiency of the production process. Especially the VFA-based, polyvinylamine (PVAm) product line allows paper manufacturers to produce in more environmentally friendly manner and considerably lowering their costs.

## APPLICATIONS

VFA can be used as a building block to make larger monomers and other compounds. Polymers of VFA can be hydrolysed to form polymers with primary amines functionality. After polymerization and subsequent hydrolysis, N-Vinylformamide (VFA) introduces a primary amine into a polymer, which can be used for cationically charged polymers or crosslinking with e.g. epoxides. Vinylformamide (VFA) is an important feedstock for water soluble, cationic polymers. Paper chemicals such as Vinylformamide help to optimize the costs of the paper process and machine efficiency, through functional chemicals that give paper specific properties to performance chemicals that improve

the appearance and performance of printed paper and board. Major applications are in dry and wet strength for paper manufacturing. Especially the VFA-based, polyvinylamine (PVAm) product line allows paper manufacturers to produce in more environmentally friendly manner and to considerably lower their costs. PNVF is known to have no toxicity, making it a promising candidate for biomedical applications. Under the form of Poly-N-vinylformamide or PNVF, vinylformamide derivative may be used for biomedical applications as a drag-reducing polymer. The synthesis and characterization of high molecular weight PNVF, significantly reduces resistance to turbulent flow in a pipe. The mechanical degradation PNVF is much slower than that of the most commonly used polyethylene oxide (PO).

**PROCESS TO PRODUCE N-VINYLFORAMIDE COMPRISES THE FOLLOWING STEPS**

Reacting acetaldehyde, formamide and the source of anhydride in the reaction vessel under pressure. Dissociating an ester formed by a reaction between the source of anhydride and hydroxyethyl formamide formed in the reaction vessel to synthesize N-vinylformamide and a compound comprising at least one diacid group. Another process to produce N-vinylformamide includes the steps of: reacting hydroxyethyl formamide with a reactant comprising at least one cyclic anhydride group to form an ester, and dissociating the ester via heat in a thin film evaporation to synthesize N-vinylformamide and a compound comprising at least one diacid group, the N-vinylformamide separating from the diacid during the thin film evaporation. The reactant including at least one cyclic anhydride group can, for example, be succinic anhydride, maleic anhydride, phthalic anhydride, (2-docecen-1-yl)succinic anhydride, *ε*-oxo-3,6-epoxy-1,2,3,6-tetrahydrophthalic anhydride or a polymer including at least one cyclic anhydride group.

**MARBLE AND ONYX**

Marble is a non-foliated metamorphic rock composed of recrystallized carbonate minerals, most commonly calcite or dolomite. Geologists use the term "marble" to refer to

Continue on page 5

**npcs PROCESS TECHNOLOGY BOOKS**

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*Industrial Chemicals Technology Handbook	1100/- 125
*The Complete Technology Book On Chemical Industries	975/- 100
*Modern Technology Of Industrial Chemicals	1100/- 125
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*Enzymes Bio-Technology Handbook	1100/- 125
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*The Complete Technology Book On Bio-Fertilizer And Organic Farming (2 <sup>nd</sup> Rev. Edn.)	1400/- 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
*Wheat, Rice, Corn, Oat, Barley And Sorghum Processing Handbook (Cereal Food Technology)	975/- 100
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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
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metamorphosed limestone; however stonemasons use the term more broadly to encompass unmetamorphosed limestone. Marble is commonly used for sculpture and as a building material. Onyx is a banded variety of chalcedony. Chalcedony is a cryptocrystalline form of silica, composed of very fine intergrowths of the minerals quartz and moganite. These are both silica minerals, but they differ in that quartz has a trigonal crystal structure, while moganite is monoclinic. Chalcedony's standard chemical structure (based on the chemical structure of quartz) is SiO<sub>2</sub> (Silicon Dioxide). The colours of its bands range from white to almost every colour (save some shades, such as purple or blue). Commonly, specimens of onyx contain bands of black and/or white.

### APPLICATIONS

Marble is largely used by the construction industry, whereas, for furniture and other decorative purposes its tiles and big size cut slabs are also used in flooring of all kinds of buildings i.e. houses for accommodation purposes, mosques, commercial buildings, hotels etc. However, refined and high quality marble is extensively used in handicraft and Kitchen tiling and making of table tops by the furniture industry, whereas, onyx is largely used for the manufacturing of handicrafts mainly for export purposes due to its premium quality and expansiveness. Multipurpose use of marble and onyx has led to the development of various industries including furniture, construction and handicraft etc. For the purpose of this pre-feasibility we have confined ourselves to the handicraft industry where both marble and onyx are used for the manufacturing of different articles of decoration i.e. vases, clocks, table lamps, ashtray, chessboard, candle stands, telephone set etc.

For Marble and Onyx Products Manufacturing, stone is obtained by exploding in mountains, then bring them into factories and cut them into various sizes, here after converted into different sizes and shapes, rubbing and polishing is applied in the end to bring shining and smoothness to the handicraft. For this purpose various machines

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

*Continue from page 5*

are use i.e. lathe machine, grinders, polishers etc.

**MARKET SCENARIO**

Global demand for marble and onyx products largely depend on the tourism industry around the world so as the local industry which is export oriented due to low profit margins on such products in the local market. Based on our discussions with the existing players who are exporting such items, Russia is the new emerging market and growing very fast where some cults of catholic Christianity consider onyx a sacred stone. Therefore, Russia may be a permanent market which has opened to international tourists after the fall of USSR during 80s. Seasonal demand of Marble and Onyx products largely depend on religious and cultural occasions round the world. Its demand increases particularly during New Year's beginning, on religious occasions i.e. Christmas, Valentines Day, during sports events i.e. Football and Cricket World Cups etc.

**ELECTROLYTIC MANGANESE DIOXIDE**

**E**MD is a complex composite of various crystals of manganese and oxygen that is produced through electro-winning. It is used primarily as the active constituent of alkaline batteries and increasingly as the feedstock for the cathodic material in lithium-ion batteries. The structure of EMD is highly disordered, but predominantly made up of the manganese dioxide crystal ramsdellite, depicted here, with the red balls signifying the oxygen atoms in the green manganese dioxide crystal lattice. Electrolytic manganese dioxide is a high purity product with

molecular formula MnO<sub>2</sub> that possesses the 'recipe specific' electrical characteristics desired by battery producers. Natural manganese dioxide (NMD) can be used in the Leclanche cells. But in alkaline, lithium and other batteries, synthetic manganese dioxide with higher purity is required. Electrolytic manganese dioxide (EMD) is used as a cathode mixture material for dry cell batteries, such as alkaline batteries, zinc-carbon batteries rechargeable alkaline batteries. Among the large variety of manganese dioxides, γ-type manganese dioxide is extensively used, as γ-variety compounds have high intercalation voltage. They have the ability to maintain high discharge rates, a good performance over a wide temperature range and have a long storage life. EMD is stable under normal temperature conditions.

**ELECTROLYTIC MANGANESE DIOXIDE NUCLEATION**

Electrolytic manganese dioxide has been used worldwide in the manufacture of primary ZnMnO<sub>2</sub> alkaline and Leclanche type cells for decades. Their low cost and reliability impair their replacement by higher performance and secondary batteries. The performance of these batteries depends on the manufacture method of the manganese oxide due to the variation of the properties of the oxide with its crystallite size, density of lattice imperfections and extent of hydration. Sometimes the intercalation of lithium ions is carried out to improve performance characteristics of MnO<sub>2</sub> for high energy density and high drain power application. Electrolytic manganese dioxide are doped with Bi, Pb and Ti ions is used for the manufacture of rechargeable alkaline manganese oxide cells. These ions are known to stabilize the

MnO<sub>2</sub> lattice towards dimensional changes that occur during charging and discharging cycles of the cells.

The production of EMD is carried out through the electrolysis of hot MnSO<sub>4</sub> and sulphuric acid solutions. Stainless steel or lead is the materials normally used as cathode, where hydrogen evolution takes place. Carbon, lead or titanium can be used as anode. Titanium anodes are preferred because the EMD is purer than that obtained with carbon and lead anodes.

#### MARKET SCENARIO

As electric vehicles penetrate the auto market, EMD demand stands to benefit. The launch of electric cars and their expanding production is expected to increase demand for EMD for use in lithium-ion secondary batteries cathodes of the lithium manganese oxide and tertiary compound type. The highest potential growth segment for EMD is in large scale rechargeable batteries used in electric vehicles and electronics. At present, the rechargeable manganese battery segments account for less than 10% of total EMD demand. Alkaline batteries are a low growth end use, expected to track well below GDP growth rates over the forecast period. In small scale electronics, EMD use projected at historical growth rates of 4%. EMD is mostly used in alkaline and other small scale, consumer electronic batteries. World demand is estimated around 3,50,000 metric tonnes per annum in 2012 with growth rate in demand around 5%.

#### CEMENT PLANT

Cement is a material with adhesive and cohesive properties which make it capable of bonding minerals fragments into a compact whole. It can be defined as any substance, which can join unite two or more pieces of some other substance together to form a unit mass. Cement, as used in construction industries, is a fine powder which when mixed with water and allowed to set and harden can join different components or members together to give a mechanically strong structure. Thus cement can be used as bonding material for bricks or for bonding solid particles of different sizes (rubber masonry) to form a monolith.

The name "**Portland cement**" is given originally due to the resemblance of the color and quality of the hardened cement to Portland stone – Portland Island in England.

The most common type of cement used by concrete manufacturers is Portland cement, which is prepared by igniting a mixture of raw materials mainly composed of calcium carbonate or aluminium silicates. According to ASTM standard specification C 150, Portland cement is defined as "a hydraulic cement produced by pulverizing clinker consisting essentially of hydraulic calcium silicates, usually containing one or more of the forms of calcium sulfate as an inter ground addition".

The phase compositions in Portland cement are shown below and they are denoted as tri-calcium silicate (C<sub>3</sub>S), di-calcium silicate (C<sub>2</sub>S), tri-calcium aluminate (C<sub>3</sub>A), and tetra calcium alumino ferrite (C<sub>4</sub>AF)

#### USES & APPLICATIONS

The most common use for cement is in the production of concrete. Concrete is a composite material consisting of aggregate (gravel and sand), cement, and water. As a construction material, concrete can be cast in almost any shape desired,

and once hardened, can become a structural (load bearing) element.

Users may be involved in the factory production of pre-cast units, such as panels, beams, road furniture, or may make cast-in-situ concrete such as building superstructures, roads, dams.

#### MARKET SURVEY

Indian cement industry, a leading manufacturing sub-sector in India, entered a new era after the partial decontrol in 1982 and near total free market in 1989, ahead of the dawn of the liberalisation era in the country. The industry was totally delicensed in 1991 under the Industries Development and Regulation Act.

India is the second largest producer of cement in the world after China. It is followed by Japan and the USA. The overall turnover of the industry is placed at Rs 600 bn. India accounts for a share of about 6% against China's 37% and the USA's 5% of global production.

The demand for cement mainly depends on the level of development and the rate of growth of the economy. There are no close substitutes for cement and hence the demand for cement is price inelastic.

#### Cost Estimation

Capacity	: 6000 MT/Annum
Plant & Machinery	: 777 Lakhs
Cost of Project	: 1253 Lakhs
Rate of Return	: 48 %
Break Even Point	: 39 %

#### CENOSPHERE PROCESSING

The word Cenosphere is derived from two Greek words Keno (hollow) and Sphaira (sphere). Cenospheres are light weight, inert hollow sphere comprising largely of silica & alumina and filled with air or inert gas. Cenospheres are a naturally occurring by product of the burning process of pulverized coal-fired boilers. They are formed during the molten state of ash and attain spherical shape to have minimum surface tension. Any gas bubbles (generally inert gases e.g. N<sub>2</sub>, Co<sub>2</sub>, unburnt coal particles etc.) flowing along the combustion gas stream, are also trapped inside the spheres. These bubbles cause the production of Cenosphere; bubbles may occur in multiple forms within the frozen particles, or as a single, concentric form, that are nearly as great as the diameter of the particle. They are found floating on the surface of fly ash lagoon.

Cenospheres are unique free flowing powders composed of hard shelled, hollow, minute spheres. A small proportion of the pulverised fuel ash (PFA) produced from the combustion of coal in power stations is formed as Cenospheres. Cenospheres are made up of silica, iron and alumina. Cenospheres have a size range from 1 to 500 microns with an average compressive strength of 3000+ psi. Colors range from white to dark gray. They are also referred to as microspheres, hollow spheres, hollow ceramic microspheres, micro balloons, or glass beads.

Cenosphere are chemically inert & are reclaimable and labeled as "Environmentally sound".

#### ADVANTAGES

The Advantages of Cenospheres are: Spherical Shape, Lightweight, Inert, Free Flowing, Insulating, High Melting Point, Hard, Electrical Properties, Low Oil Absorption & Good Packing Factor

#### APPLICATIONS

Cenospheres is versatile filler with applications



## SELECTED PROJECTS FOR YOU

in a wide variety of products, both commercial and industrial. These are as diverse as oil well cementing and PVC cushion vinyl flooring. However, in each case, Fillite is used for its unique properties, such as strength, low density and chemical resistance.

Below are the main applications areas in which Fillite is commonly used.

Applications in Polyurethane, Cement, Latex Emulsions, PVC, Epoxy Resins & Unsaturated Polyester Resins.

### MARKET SURVEY

Cenosphere are a by-product from coal ash. These hollow light weight spheres are produced around the world. Most all of the Cenosphere produced today are recovered from ash ponds or lagoons typically onsite at the coal fired power plant. Fly ash, or the residue from coal after combustion, has been a long-standing challenge for the Indian power sector, which is dominated by coal. Currently, 53 per cent of the total installed power capacity in the country is based on coal. Given that Indian coal has a very high ash content, in the range of 35 to 45 percent, the country currently generates approximately 160 million tones of fly ash, of which only 80 million tones is being utilized.

Cenosphere Processing is a 100% export oriented Unit. Improvements in the durability and strength of manufacturers' end products and a reduction in product weight enhance marketing strategies.

SSI (Sphere Services Inc) was one of the first companies to introduce Cenosphere to the world on the internet. Since that time the Cenosphere have become more widely used and demand has increased for the product. Since the demand has increased supply has been coming from overseas from other Countries. Sometimes new suppliers will have trouble developing quality control measures for the material. Having a quality product chemically and physically on a consistent basis is critical for the end use customer.

### Cost Estimation

Capacity	: 480 MT/Annum
Plant & Machinery	: 57 Lakhs
Cost of Project	: 132 Lakhs
Rate of Return	: 27 %
Break Even Point	: 59 %

### CITRONELLA OIL EXTRACTION

#### (STEAM DISTILLATION PROCESS)

Citronella oil is extracted from *Cymbopogon nardus* (also known as *Andropogon nardus*) and is of the Graminae (Poaceae) family. This aromatic perennial grows about 1meter (3 feet) high. Citronella oil is an essential oil containing citronellal, geraniol and hydroxy citronella and other high value perfumery bases obtained on steam distillation of citronella grass.

Oil of citronella is a biopesticide (biochemical) with a non-toxic mode of action. It is registered as an insect repellent/feeding depressant and as an animal repellent. Oil of citronella is the volatile oil obtained from the steam distillation.

#### CHARACTERISTICS OF CITRONELLA OIL

Citronella oil is a colorless or light yellow liquid with a characteristic woody, grassy or lemony odour. It is flammable and if the vapors are inhaled, this could cause an initial stimulation followed by depression of the central nervous system.

Citronella oil may be harmful if ingested in quantity and may irritate the skin and eye. However, it is not believed to be hazardous to humans, including

children and those with sensitive skin, if used according to label instructions. Citronella oil has been widely used since the 1950s without any adverse effects which may cause concern.

### USES & APPLICATIONS

It has great benefit in clearing the mind, refreshing rooms and for softening skin, while combating oily skin and sweaty feet: Citronella oil's most useful quality is that of it being an insect repellent. It is best used in a spray, a diffuser or on a cotton ball amongst linen. It is also useful in ridding cats and dogs of fleas. Furthermore, citronella oil helps to clear the mind and has a general toning and tonic effect on the body. It is helpful with colds, flu and minor infections and also has deodorizing qualities.

The oil is used for perfuming soaps, detergents, cosmetics and agarbattis. The oil is also used to isolate citronellol, geraniol. These are in turn converted into citronellal, hydroxy citronellal, synthetic menthol and esters of geraniol and citronellol. These compounds are used for making high grade blended perfumes.

### MARKET SURVEY

Citronella oil prices have remained stalled at their historic low for more than a year. Although pricing usually improves during the spring because of the need for candles and insect repellent, demand has remained flat, and brokers report very little activity for the essential oil. The economics working behind essential oils has three components. First, the cultivation of herbs and plants used to extract essential oils; second, the actual process of extraction of the oils; and, third, the marketing and actual sale of these oils.

Presently the major producers are China, Vietnam, Indonesia, Argentina, Taiwan, Srilanka, Brazil, Madagascar and India.

Demand is generated from home market as well as export market. The source of demand is from end use industries which are primarily personal care products, food products, pharmaceuticals. The demand for essential oil by fragrance industry is 60%, flavour industry 20% and pharmaceutical industry 20%.

The demand and market of citronella oil has been increasing day by day all over the world because of the important properties that it possesses.

### Cost Estimation

Capacity	: 9000 Kg/Annum (Citronella Oil)
Plant & Machinery	: 20 Lakhs
Total Capital Investment	: 129 Lakhs
Rate of Return	: 45 %
Break Even Point	: 39 %

### DAIRY FARM TO PRODUCE MILK

#### (50% POUCHES & 50% CANS)

Dairy industry is of crucial importance to India. The country is the world's largest milk producer, accounting for more than 13% of world's total milk production. It is the world's largest consumer of dairy products, consuming almost 100% of its own milk production. Dairy products are a major source of cheap and nutritious food to millions of people in India and the only acceptable source of animal protein for large vegetarian segment of Indian population, particularly among the landless, small and marginal farmers and women.

Dairying has been considered as one of the activities aimed at alleviating the poverty and unemployment especially in the rural areas in the rain-fed and drought-prone regions. In India, about three-fourth of the population live in rural areas and about 38% of them are poor. The progress in this sector will result in a more balanced development of the rural economy.

The importance of milk in human diet especially for children and expectant and nursing matters is vital. To meet the demand of the increasing population milk production in India has to be increased. It is neither possible nor desirable to increase the cattle and buffalo population to achieve this target. This can only be achieved by stepping up milk production of our bovine population by cross breeding of cows and use of improved cows and cow. Today, dairy cows are specialized to produce large volumes of milk. Specialist scale dairy farming is only viable where either a large amount of milk is required.

**USES & APPLICATIONS OF MILK**

The term 'milk' refers to a heterogeneous mixture secreted by the healthy mammary glands containing fat, proteins and carbohydrates along with minerals and vitamins in the form of emulsion, colloidal suspension and true solution respectively in the continuous phase of water. In the other words milk may be defined as an emulsion of fat in a watery solution of sugar and mineral salts and with protein in a colloidal suspension.

On storage of milk at some more temperature for some time, the acidity found increased to some extent and this increased acidity is known as "Developed acidity".

Milk is used as a food, Used as a complete food of infant, It is used to prepare curd, butter, ghee, cream and ice cream etc., Milk is used in all homes, It is used in hotels and restaurants as milk food preparation and in the preparation of tea.

**MARKET SURVEY**

India is the world's largest producer of dairy products by volume, accounting for more than 13% of world's total milk production, and it also has the world's largest dairy herd. The Indian Dairy sector acquired substantial growth momentum from 9th Plan onwards, achieving an annual output of 121.8 (estimated) million tones of milk during 2010-11. This has not only placed the country on top in the world, but also represents sustained growth in the availability of milk and milk products for the growing population. Dairying has become an important secondary source of income for millions of rural families and has assumed the most important role in providing employment and income generating opportunities.

**Cost Estimation**

Capacity	: 756000 Ltrs. Milk/ Annum
Plant & Machinery	: 18 Lakhs
Total Capital Investment	: 199 Lakhs
Rate of Return	: 39 %
Break Even Point	: 36 %

**ZINC OXIDE FROM ZINC DROSS**

Although zinc oxide has been known since ancient times, its use as a pigment is relatively recent. It was developed as a pigment in place of basic lead carbonate. The lead pigment was superseded because it turned black on atmospheric exposure. Production of zinc oxide

by burning zinc in air was developed by Le Clair in France in 1840, hence the French Process. Zinc oxide was the prime white pigment for another 100 years, when titanium dioxide was developed as an alternative with superior opacity to zinc oxide.

Zinc dross is obtained from the recovery of zinc. The zinc types may be recovered from galvanized sheets, batteries, car components, galvanizing processes, etc. Zinc ashes are formed on the surface of molten zinc baths, and whilst primarily zinc oxide, particles of finely divided zinc will also adhere to the oxide. The various types of zinc are treated by processes to produce pure zinc metal.

This is by far the most important Zinc compound. Zinc Oxide is valuable both for direct application and for production of other zinc compounds. Pure zinc oxide is white at ordinary temperatures, becoming yellow when hot. Its density depends to some extent on the method of manufacture; the accepted value is 5.68 g/cm<sup>3</sup>. ZnO is a II-VI compound semiconductor whose ionicity resides at the borderline between the covalent and ionic semiconductors.

**USES & APPLICATIONS**

Zinc oxide is used in the rubber, paint, ceramics, chemical textile and other industries.

Accelerator activator, pigment, and reinforcing agent in rubber; ointment; pigment and mold growth inhibitor in paints; ceramics; floor tile; glass; zinc salts (zinc stearate etc.) feed additive; semiconductor in electronic devices; electronic ceramics, raw material to produce zinc phosphate as steel coating.

The first important use of zinc oxide is in all kinds of paints. The conventional oil based paints and emulsion type coating for cement and masonry surfaces contain zinc oxide pigment, which gives them good protection against contamination by wind born organic dirt, milder, ultraviolet rays and chalking.

It is also used in protective coating for exterior wood surfaces since it forms soaps with organic acids present in vehicle. The soap formation and in the mixing of the pigments with the oil and at the same time induces a thyrotrophic consistency in paints.

Zinc oxide finds use in metal protective coatings, paint pigmented with zinc dust and zinc oxide are the most successful coatings for use in galvanized surface. Zinc oxide is used in conjunction with red lead and/or zinc yellow for general purpose, primers for ferrous surfaces. In these priming paints, it aids in producing a tough, adherent film resistant to abrasion and chalking.

**MARKET SURVEY**

Demand of Zinc oxide is increasing day by day because of setting up of more and more paint and plastic industries. moreover, Zinc oxide (ZnO) has a very good market and it is a growth oriented product and demand is over increasing in the country as well as abroad various industries consuming zinc oxide are in manufacturing, paper, cosmetic, crockery, petroleum etc. It can be easily visualized that demand for any material consumed by such growth oriented industries will always be on the use.

**Cost Estimation**

Capacity	: 3000 MT/ Annum
Plant & Machinery	: 132 Lakhs
Cost Of Project	: 401 Lakhs
Rate of Return	: 38 %
Break Even Point	: 49 %

### **THERMOCOL CUPS, GLASS AND PLATES**

**E**PS/ Thermocol is the standard abbreviation for Expanded Poly Styrene. Low levels of styrene occur naturally in plants as well as a variety of foods such as fruits, vegetables, nuts, beverages and meats. However, styrene is produced in industrial quantities from ethyl benzene. "Foam" is generally known everywhere but in fact its' meaning is so wide. According to translation "Foam" means, "expand" or "blow". Herewith we concern "Foam" as the expanded plastics. There are many kinds of plastics in the world, any plastics when react with the Blowing Agent will become "Foam" which generally called "Foam Plastics".

The example of well-known foam plastics is sponge, food box, foam sheet, spray foam for insulation and etc. These foam plastics are produced from different kinds of plastics. The foam that produced from Polystyrene / PS (C<sub>8</sub>H<sub>8</sub>) plastic, PS Foam or so-called "Expanded Polystyrene" is made for food box, ice box, packaging for television and floating Krathong foam.

#### **THERMOCOL HAS A PARTICULAR ASPECT**

It gives the hand a sensation of velvety softness not experienced in contact with traditional types of plastic. Until recently Thermocol has been employed almost exclusively in the packing and thermoacoustic isolation sectors; utilizing new processes and sophisticated equipment has been possible to create containers for foods with a perfect retention of liquids. Thermocol is formed by the synthesizing of spherical particles consisting of air (at a rate of 98%) contained within an infinite number of hollow cells. These cells, forming a structure of pellets fused together, give consistency and rigidity to the final product. The advantages are many: the product's manufacturer requires very little energy, thereby allowing full weight to be given to ecological consideration. Of fundamental importance is the treatment with the vapor, which, as well as having a technical function during the manufacturing process, renders the product hygienic through sterilization, Thermocol is a good resister of cold and heat but since it is a petroleum product it dissolves in any solvent of petroleum.

#### **USES & APPLICATIONS**

Any product of any shape or size may be packaged in expanded polystyrene. The following only touches on the possibilities in both the industrial and food packaging sectors using thermocol.

Foamed plastics materials have achieved a high degree for importance in the plastic industry. Foams can be made soft and flexible to hard and rigid. Expanded polystyrene is one of such foams. It may be used such as thermal insulation material; acoustic treatments shock protective packaging, etc. Its properties can be varied widely in manufacture to meet both general and specific demands.

For more than 50 years, the effectiveness of thermocol has been proven in numerous packaging applications used by a wide variety of industries, consumer product manufacturers and catalogue and shipping companies. Lightweight thermocol is ideal for these packaging applications due to its physical properties, in particular its cushioning characteristics, dimensional stability and its thermal and moisture resistance.

#### **MARKET SURVEY**

Insulation with EPS provides safe installation and

affordable access to energy reduction in heating and cooling buildings. Packaging is also considered an essential final application of EPS, where it supplies lightness and protects health by reducing spoilage of the product. The use of plastic packaging in general and of suitable insulating materials like EPS, together with freezing technology means that only 2 percent of the food is spoiled in the West, while this is up to approximately 50 percent in the developing countries.

#### **Cost Estimation**

Capacity	: 55640000 Pcs./ Annum
	284400 Pcs Thermocol
	Glass/day
	284400 Pcs Thermocol
	Cups/day
	1280000 Pcs Thermocol
	Plates/ day
Plant & Machinery	: 222 Lakhs
Total Capital Investment:	816 Lakhs
Rate of Return	: 43 %
Break Even Point	: 35 %

### **ALUMINA REFINERY**

**A**lumina is a white granular material, a little less coarse than table salt, and is properly called aluminium oxide. Aluminium does not occur as a metal, but must first be refined from bauxite in its oxide form.

Aluminium compounds make up 7.3% of the earth's crust, making it the third most common crustal element and the most common crustal metal on earth. Aluminium was first produced in 1808. There are three main steps in the process of aluminium production. First is the mining of aluminium ore, most commonly bauxite, referred to as bauxite mining. Second is the refining of bauxite into aluminium oxide trihydrate (Al<sub>2</sub>O<sub>3</sub>), known as alumina, and third is the electrolytically reduction of alumina into metallic aluminium.

Development in the aluminium producing industry, consumption and environmental implications are discussed, as well as aspects of future trends. This also includes the preceding processes of bauxite mining and alumina refining. Each of these process steps are described consecutively.

#### **USES & APPLICATION**

Alumina is used in Gas laser tubes, Wear pads, Seal rings, High temperature electrical insulators, High voltage insulators, Furnace liner tubes, Thread and wire guides, Electronic substrates, Ballistic armor, Abrasion resistant tube and elbow liners, Thermometry sensors, Laboratory instrument tubes and sample holders, Instrumentation parts for thermal property test machines & Grinding media

#### **MARKET SURVEY**

The markets for alumina and aluminum have dramatic growth potential as a result of both significantly increased demand and political and environmental factors affecting supply. Global Alumina is perfectly positioned to capture the demand of independent aluminum producers as it builds the first green-field refinery to be constructed in Guinea in more than 40 years.

Global aluminium prices are likely to go up in the wake of growing demand at domestic and international fronts, coupled with China's step to slash production of the metal. According to Harbor Intelligence, a global consulting firm specialising in forecasts for commodities, aluminium prices could touch \$2,700 per tonne in the first half of the next year.

In the middle of 2008, industry professionals forecast an increase in annual alumina demand of approximately 50 million metric tons, for a cumulative annual demand of 124 million metric tons, by 2017.

**Cost Estimation**

Capacity	: 1800000 MT/ Annum
Plant & Machinery	: 64454 Lakhs
Cost of Project	: 79232 Lakhs
Rate of Return	: 48 %
Break Even Point	: 46 %

**SHEET METAL PRESS SHOP**

Sheet metal operations have been in existence since 8000 B.C. Sheet metal is simply metal formed into thin and flat pieces. It is one of the fundamental forms used in metalworking, and can be cut and bent into a variety of different shapes. Due to its long history, sheet metalworking is, unfortunately, often seen as archaic and uninteresting. That metal sheets can be transformed with the aid of robust machines into fancy consumer products with tight tolerances is inconceivable to many. Yet, sheet metal operations are used for producing both structural components and durable consumer goods. Nowadays, sheet metal parts are widely present in different daily life products. During the past decades, scientific research in the field of sheet metal operations has been booming and international conferences on different sheet metal topics attract numerous attendants. Both industry and the academic community recognize the importance of continuing improvement in sheet metal operations.

**APPLICATION**

Sheet and plate metal parts for consumer and industrial products such as: Automobiles and trucks, Airplanes, Railway cars and locomotives, Farm and construction equipment, Small and large appliances, Office furniture & Computers and office equipment.

**ADVANTAGES**

High strength, Good dimensional accuracy, Good surface finish, Relatively low cost, For large quantities, economical mass production operations are available.

**USES**

The most common end uses for sheet metal have been electronic enclosures, such as personal computer housings or casings; roofing and roof drainage equipment; air conditioning ducts and stovepipes; sheet metal flooring and siding; awnings, canopies, cornices, and soffits; culverts, flumes, and irrigation pipes; and other or unspecified uses. These categories cover a myriad of products used by every industry, including aircraft manufacture (air cowls); building construction (siding, stove hoods, and gutters); heating, ventilation, and air conditioning (HVAC) applications (ducts, furnace flues); mineral processing (coal chutes); highway construction (guardrails); agriculture (irrigation pipes); business machines (computer casings); shipbuilding (ship ventilators); postal delivery (mailboxes); and food preparation (vats and bins).

**MARKET SURVEY**

According to industry statistics from Dun and Bradstreet, there were an estimated 5,917 establishments engaged in manufacturing sheet metal work for buildings (not including fabrication work done by construction contractors at the place of construction) in 2010 with revenues of more than \$10.7 billion employing 115,838 workers. States with the highest concentration of establishments in this

industry were California (15 percent), Texas (8 percent), Florida (5 percent), Pennsylvania (4 percent), and Ohio (4 percent). California accounted for the most sales, with \$1.5 billion, followed by Texas with \$898.5 million, New York with \$593.3 million, and Illinois with \$506 million.

Sheet metal product sales are expected to account for 51.3% of industry revenue in 2012. Sheet metal products are used in virtually all phases of building construction and have many uses in improvements and repairs for existing structures. Sheet metal is used to install and maintain heating, ventilation and air-conditioning duct systems; roofs; siding; rain gutters; downspouts; and skylights. Some products manufactured in this segment include awnings, canopies, casings, chutes, ducts, furnace casings, gutters and ventilators

Sheet metal demand in the US is forecast to cross \$20 billion by 2016, following annual gains of over five percent from 2011.

**Cost Estimation**

Capacity	: 900 MT/ Annum
	Mild Steel Sheet Products
	: 600 MT/ Annum
	MS Scraps : 300 MT/Annum
Plant & Machinery	: 6 Lakhs
Cost of Project	: 217 Lakhs
Rate of Return	: 25 %
Break Even Point	: 64 %

**LIQUOR FROM MAHUA FLOWERS**

A distilled beverage, spirit, or liquor is an alcoholic beverage containing ethanol that is produced by distilling (i.e., concentrating by distillation) ethanol produced by means of fermenting grain, fruit, or vegetables. Alcoholic beverage consumption patterns vary considerably among different countries and even among different ethnic groups within one country. Because India has great variety in topography, climate, vegetation, culture, and traditions, it is unsurprising that hundreds of kinds of alcoholic beverages are made and consumed. All of them, however, can be grouped into the following four broad categories; India-Made Foreign Liquor (IMFL), Country Liquor or Indian Made Indian Liquor (IMIL), Illicit Liquor and Beer. IMFL are the category, created for revenue purposes, consists in Western-style distilled beverages such as whiskey, rum, vodka and brandy. These beverages are made in India under government licenses and the maximum alcohol content allowed is 42.8%. Whiskey is by far the most popular drink in this category, with hundreds of brands available, at least 20 of which have an all-India presence. Indian Made Indian Liquor (IMIL) are made from any cheap raw material available locally, e.g. sugarcane, rice, or coarse grains. Country liquor is produced in licensed distilleries and sold from authorized outlets within the same district. Common varieties of country liquor are arrack, desi sharab, and tari (toddy). Excise duties are paid, but since production costs are low the retail prices are also low. The licensing system and some governmental monitoring of the production process ensures a uniformity in alcohol content (around 40%) and basic safeguards against adulteration with other harmful intoxicants. Northern and western India are sugar-producing areas, and a large amount of molasses is available

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

### HERBS CULTIVATION & MEDICINAL USES



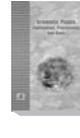
This book contains the Cultivation of different herbs with coloured photographs of various herbal plants. The book also includes the habitat, constituents, action and use in Ayurveda, Siddha and Unani medicines. ₹ 975/- US \$100

### 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 films 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 our 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 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, 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

in these states at a very cheap price. Consequently, molasses is the main raw ingredient for country liquor. In south India, coconut and other palms are used for the same purpose. In addition, inexpensive grains are used for country liquor all over India.

#### USES OF MAHUA

The Mahua tree is a very important source of food for the Gonds and other tribes in Central and Western India. They are also used for making alcohol, vinegar, syrups and jams. Mahua oil is largely used in the manufacture of soaps, besides cooking. Mahua flowers and seeds have healing Power and Curative Properties, used in Bronchitis, Rheumatism, Diabetes, Piles, Arthritis, Problem of Breast Milk Secretion, Bleeding Gums, Tonsillitis, Eczema, and Skin Disorders. Mahua flowers are also considered good for cooling, and are used as a tonic and demulcent. However an estimated 90 per cent of the production goes into brewing beverages. In traditional medicine, the flowers are used for a variety of purposes. An extract of the flowers is used for heart disease and to treat excessive vaginal discharge. This is also believed to be good for the eyes, TB, asthma, blood diseases, thirst and burning sensations. The flowers are also believed to be aphrodisiacs and to increase the quantity (but not necessarily the quality) of sperm.

#### MARKET SURVEY

Liquor industry has always remained under strict governmental control in terms of capacity creation, distribution, taxation. While overall public perception spells restraint, it is the symbol of high life even in puritan India. The industry poses a dilemma to the state. It cannot resist the temptation of large revenues, while steering clear of the embarrassment of giving encouragement to drinking. A positive feature of allowing the industry to grow and operate is the prevention of illicit production and drinking.

The growing popularity of wine in India is generating lots of interest among big and small wine producers. This is also reinforced by the fact that the cost for opening and setting up of wine plants with capacity of around 100,000 lts comes only to somewhere between Rs 10-15 mn mark. As a result many entrepreneurs, Indian and foreign, are entering in this sector.

Based on beverage type the Indian alcohol industry has three prominent sectors: the IMFL and beer sector, the IMIL or country liquor sector, and the illicit liquor sector. The structure, marketing and sales practices, and economic issues differ for each of these.

These joint ventures have served a dual purpose: They have brought international alcohol brands to India, and they have utilized the existing production and marketing strengths of Indian industry. Hence they have been mutually beneficial. Nearly all of the major transnational alcohol companies now have a presence in India and many internationally popular brands of whiskey and beer have become available. These have been accepted well by the upper middle and higher socioeconomic classes, who can now purchase these famous brands locally rather than having to carry them back from trips to other countries or to buy them from illegal importers. The price of these products remains high, but since they carry high social prestige value there is good demand in this premium range.

#### Cost Estimation

Capacity	: 1200000 Nos. Bottles/ Annum (750 ml each Bottle)
Plant & Machinery	: 29 Lakhs
Cost of Project	: 134 Lakhs
Rate of Return	: 40 %
Break Even Point	: 67 %

#### CRUCIBLES FROM FIRE CLAY

A crucible is a container that can withstand very high temperatures and is used for metal, glass, and pigment production as well as a number of modern laboratory processes. While crucibles historically were usually made from clay, they can be made from any material that withstands temperatures high enough to melt or otherwise alter its contents.

Fire Clay Crucibles are for general fire assay fusions and other melting applications and are good from 2200°F up to 2400°F.

#### USES & APPLICATIONS

A crucible is a cup-shaped piece of laboratory equipment used to contain chemical compounds when heated to extremely high temperatures. Crucibles are available in several sizes and typically come with a correspondingly-sized crucible cover (or lid). They are used in putting the unknown substances hell.

Fire clay is a term applied to a range of refractory clays used in the manufacture of ceramics, especially fire brick.

Fire clay can also be used to create fire resistant chimney and flue liners, and fire resistant pads for safety, as seen when a hearth in front of a fireplace is made with fire clay to reduce the risk of fire. In many settings where there are concerns about fire, fire clay can be used.

Fire clay is a type of clay which is used in the production of heat resistant clay items, such as the crucibles used in metals manufacturing. This type of clay is commonly mined from areas around coal mines, although other natural deposits are also available as potential sources, with many nations having deposits of clays suitable for use in high temperature applications. Fire clay can also be refined and treated to make it suitable for specialty applications.

#### MARKET SURVEY

Crucibles are the consumables used as pots for melting metals and largely used in the non-ferrous industries, whether you talk of aluminum, zinc, gold, silver, these are the pots which are used for melting the metal and then making that may be the alloys or may be the virgin metal. This is a consumable. So this has a continuous demand in all the plants.

#### Cost Estimation

Capacity	: 30000 Pcs./ Annum
Plant & Machinery	: 24 Lakhs
Cost Of Project	: 132 Lakhs
Rate of Return	: 32 %
Break Even Point	: 58 %

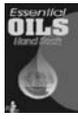
#### ACTIVATED CARBON FROM SAW DUST & COCONUT SHELL

Activated Carbon is a unique material because of the way it is filled with "holes" (voids, spaces, sites, pores,) whatever the size of molecules. It is that, although they are spaces of zero electron density, these pores possess intense vander wall forces (from the near proximity of

*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 agriculture 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

### 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



### The Complete Book on BIOTECHNOLOGY Based Bulk Drugs

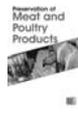
The development of biotechnology is taking place in almost all fields of human life. The recent advances in the field of basic genetics have opened up new vistas, potentials and possibilities. The present book contains process of biotechnology based bulk drugs like penicillin, B lactam Antibiotics, Aminoglycoside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



## 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

carbon atoms).

Activated carbon is a non-graphitic form of carbon, which could be produced by activation of any carbonaceous material such as coconut shells, bamboo, wood chips, sawdust, coal, lignite, paddy husk etc. The process of activation is carried out in two stages. The raw material is first carbonized and then activated either by chemicals or by steam to derive the highly porous structure. Shell-based activated carbon is extensively used in the process of refining and bleaching of vegetable oils and chemical solutions, water purification, recovery of solvents, recovery of gold, in gas masks for protection against toxic gases, in filters for providing adequate protection against war gases/nuclear fall outs, etc.

**USES AND APPLICATION**

A wide variety of activated carbon products are available exhibiting markedly different characteristics depending upon the raw material and activation of technique used in their production. In selecting the activated carbon it is important to have a clear understanding of both the adsorptive and physical characteristics of the material in order to optimize the performance capabilities.

Activated Carbon of three grades namely powder, granular and pelletized finds hundreds of different applications. By chemical activation, predominantly powder activated carbons are made and these qualities are mostly used for wastewater treatment. Granular products and pellets used for gas purification are predominantly made by gas steam activation. To cite some examples from the numerous applications: decolorization of sugar and sweeteners, drinking water treatment, gold recovery, production of pharmaceuticals and fine chemicals, catalytic process, off gas treatment of waste incinerators, automotive vapor filters, color/odor correction in wines and fruit juices.

**MARKET SURVEY**

The global activated carbon market was worth \$1.8 billion in 2011 and is estimated to reach \$3 billion by 2016, growing at a CAGR of 11.1% from 2011 to 2016. The powdered and granular activated carbon segments are the key revenue generators for the activated carbon market.

The demand for activated carbon (AC) is expected to grow due to the new demand in mercury control technology for industrial air purification applications.

**Cost Estimation**

Capacity	: 6000 MT/ Annum
Plant & Machinery	: 181 Lakhs
Total Capital Investment	: 1070 Lakhs
Rate of Return	: 43 %
Break Even Point	: 37 %

**COTTON YARN FROM WASTE YARN**

Cotton is fun and fashionable. Its beauty and natural comfort make the world a better place. Can you imagine a world without cotton? It's often the first fiber we touch when we are born into the world... and it stays with us throughout our lives. Consumer demand clearly shows that people want cotton in their lives all year long because the comfort and strength that cotton provides is empowering. It allows wearers to be themselves. There is nothing fake about cotton. Cotton feels wonderful against your skin and we believe it is the healthiest of all fibers. Life can be hard, but cotton makes our lives easier.

Cotton plays a vital role in the Indian economy. It sustains the Indian cotton textile industry, which

constitutes the single largest segment of organized industries in the country. It provides gainful employment to millions of people besides contributing substantially to the country's foreign trade. The economic significance of cotton and the cotton industry in India is so great that Mahatma Gandhi based his freedom movement on cotton economics.

At the present time consumers are increasingly inclined to use organic textile products manufactured with maximum care taken to protect the environment. The object of the present study is to compare the life cycle and impact of production processes of recycled cotton with those of conventional cotton, in order to demonstrate the enormous advantages for the environment of using recycled cotton in the manufacture of all kinds of textile garments, since this raw material is one of the most sought after textiles for fabric manufacture.

**USES AND APPLICATIONS**

Yarn is a long continuous length of interlocked fibers, suitable for use in the production of textiles, sewing, crocheting, knitting, weaving, embroidery and rope making. Thread is a type of yarn intended for sewing by hand or machine. Modern manufactured sewing threads may be finished with wax or other lubricants to withstand the stresses involved in sewing. Embroidery threads are yarns specifically designed for hand or machine embroidery. Cotton is an extremely versatile fiber, and cotton yarn is just one of its useful forms. Cotton is used to make a number of textile products.

Yarn can be used for knitting, crochet, weaving, making pompons, making yarn rope, macramé, friendship bracelets, tying packages, decorating, arts & crafts, tying up veggies/plants, tying up hair, playing with kittens and much much more!

**MARKET SURVEY**

Cotton is one of the principal crops in India. India is the third-largest producer of cotton in the world after China and US.

Cotton Yarn is a byproduct of cotton and is manufactured by processing cotton fiber. India was dominant in producing and also consuming cotton yarns and India's textile mills produces some of the best textiles.

India and China are traditionally the biggest sellers of cotton yarn.

The increase in domestic demand for cotton yarn is conditioned by the high growth rates of textile industry, readymade clothes in particular. Sanitary and ecological purity are the main advantages of cotton clothing. Cotton items are long worn because of high density, they are airpermeable and moisture absorbable.

**Cost Estimation**

Capacity	: 4 MT/ day
Plant & Machinery	: 56 Lakhs
Total Capital Investment	: 280 Lakhs
Rate of Return	: 46 %
Break Even Point	: 43 %

**TRANSMISSION TOWERS & TELE COMMUNICATION TOWERS WITH GALVANIZING PLANT**

A transmission tower (colloquially termed an electricity pylon in the United Kingdom and parts of Europe, an ironman in Australia, and a hydro tower in English Canada) is a tall structure, usually a steel lattice tower, used to support an overhead power line. They are used in high-

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**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 point 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 & Toiletries**



(With Formulae & Project Profiles) 3rd Edn. The book contains the formulae of different types of soaps, detergents (cake, powder and liquid) toiletries, analytical testing method, quality control of finished products, packing criteria of cosmetics and toiletries 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 attempt 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** 2nd 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. ₹1100 US\$125



**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

voltage AC and DC systems, and come in a wide variety of shapes and sizes.

Typical height ranges from 15 to 55 metres (49 to 180 ft), though the tallest are the 370 m (1,214 ft) towers of a 2700 metres long span of Zhoushan Island Overhead Powerline Tie. In addition to steel, other materials may be used, including concrete and wood.

#### USES & APPLICATIONS

The products of the Proposed Fabrication units are covered by Well-designed and fabricated structures for a. state electricity boards for the purposes of electricity supply (i.e) a) power transmission Towers, TV and Radio Towers, Telecommunication Towers, b) Railway and Highway bridges etc. c. Industrial structures etc.

Four major functions of transmission towers are in use: Suspension Towers, Terminal Tower, Tension Towers & Transposition Tower.

#### MARKET SURVEY

The Indian market has also the potential to generate 150,000 MW of hydro power. The Vadodara facility received fresh investments of about USD 30 mn with a scalable manufacturing capacity that currently stands at 1500 MW per annum. The Vadodara facility is one of the three largest hydro equipments facilities in the world.

With the fast development of cellular telephones, a completely new segment of tower industry has emerged. The demand has increased precipitately in sympathy with the galloping expansion of cellular telephones.

#### Cost Estimation

Capacity	: 24000 Mt/ Annum
Plant & Machinery	: 163 Lakhs
Cost of Project	: 833 Lakhs
Rate of Return	: 45 %
Break Even Point	: 53 %

#### PP BAGS FOR CEMENT

Packaging is both a symbol of society's consumption habits and reflection of its progress. The user expects it to have better strength, easier handling, to be lighter, more aesthetic, safer from a hygiene point of view, etc. The manufacturer undertakes research and development to meet these demands and to offer a high quality product. In addition to its standard attributes, today's packaging just also contributes to protecting the environment, and certainly must not damage it besides being friendly to human health.

PP oriented strips are becoming increasingly popular in India & have caught the eye of many end users for their requirement of packing materials. They have become popular on account of their inertness towards chemical, moisture & excellent resistance towards rotting & fungus attack. They are non toxic. Lighter in weight & have more advantages than conventional bags.

#### POLYPROPYLENE BAGS

Polypropylene is a form of plastic. It's available in a wide variety of forms but is essentially a flexible resin polymer. While the formal chemical name for the material is polypropylene, the generic layman's term is "non-woven" simply because it's really a large sheet of plastic and not a woven fabric. The material has been debossed to give it the appearance of woven cloth, yet it is really a non-woven material.

Polypropylene bags are made from virgin polypropylene plastic. Polypropylene bags are versatile, attractive bags most commonly used for

packaging small items such as beads and lollies. These bags can be sealed with a heat sealer like many other plastic bags. While polypropylene is similar to cello, polypropylene bags are much clearer with neater seals, and have the advantage of being less expensive than cello bags.

#### USES

It is used for Packaging of Cement, Fertilizers, Tarpaulins, Sugar, Plastics Polymers, Food grains, Chemicals, Salt, Bale Coverings & sand.

#### MARKET SURVEY

Woven bags enjoy a good market in India and will continue to do so in the coming years. Plastic woven sacks are rapidly replacing jute bags because they have often various advantages over the conventional jute fabrics as packaging materials. They have excellent chemical resistance; they are light in weight and more suitable for packing of various chemicals in the form of granules and powder. They are also: stronger and can withstand much higher impact loads. Their elongation at break is 15 to 25 per cent compared to 3 per cent for jute; they are much cleaner, both in use and production and can be used to handle food products as they are resistant to fungal attack. Because of such superior properties of plastic woven bags, it has high demand everywhere. Cement industry is increasing day by day.

The packaging industry is estimated at Rs 150 bn and is growing at 14-15% annually. This growth, according to industry watchers, is expected to double in the next two years. It is estimated that more than 80% of packaging in India constitutes rigid packaging and the rest being flexible.

The per capita consumption of the packaging industry is only 3 kgs as compared to 100 kgs in developed countries. This is an indication of the market potential of the packaging industry. In the packaging segment, laminated products are the fastest growing segment, which was growing at a rate of 15%.

In order to meet the expanding demand, cement companies are fast developing new plants. The cement industry is poised to add 111 MT of annual capacity by the end of 2009-10 (FY 2010), riding on the back of approximately 141 outstanding cement projects.

#### Cost Estimation

Capacity	: 36000000 Nos./ Annum
Plant & Machinery	: 408 Lakhs
Cost of Project	: 835 Lakhs
Rate of Return	: 38%
Break Even Point	: 50%

#### CEILING FANS, WALL SWITCHES AND SOCKETS

Electricity is an integral utility in modern society, with links to everything from a human's subconscious fear of the dark to the practical need for working illumination in an industrialized world. The entire world essentially runs on electricity, in one form or another, and while combustibles are essential at the present time as well, their time is nearing an end. Most of the devices and appliances are run from electricity so it is present everywhere as in our bed room, kitchen, roof, in our office, in the path, in trains.

When electricity was first introduced into the household, it was primarily used for lighting which was operated through switches and sockets. The invention of the light switch over 100 years ago offered

*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 forest wealth. ₹1275/- US \$ 125

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



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

people a quick and safe method of lighting their homes. From its invention in 1884, technology has provided us with many choices for the types of switches we use, the decor of the plate that covers them and more energy-efficient ways of providing us with electricity.

A ceiling fan is a mechanical fan, usually electrically powered, suspended from the ceiling of a room that uses hub-mounted rotating paddles to circulate air. A ceiling fan rotates much more slowly than an electric desk fan; it cools people effectively by introducing slow movement into the otherwise still, hot air of a room, inducing evaporative cooling. Fans never actually cool air, unlike air-conditioning equipment, but use significantly less power (cooling air is thermodynamically expensive).

#### USES

Ceiling fans are very commonly used for circulation of air in a room to bring the cooling purpose easier. Due to circulation of air in a room, the cooling rate increases and we feel cool and less suffocation. When the air is circulated, air comes from other place and due to this the room becomes cool. The fan consists of a rotating arrangement of vanes or blades which act on the air.

Unlike air conditioners, fans only move air, they do not directly change its temperature. Therefore ceiling fans that have a mechanism for reversing the direction in which the blades rotate (most commonly an electrical switch on the side of the unit) can help in both heating and cooling.

An electrical switch is a commonly used device for making, breaking, or changing the course of an electric circuit. There are different types of electrical switches being manufactured for use in different applications.

Switches and sockets are used for utilising grid electricity supply at 220/250 volts, They are used in every house, industry, office, and hotel, practically everywhere electric connection is available. These fittings help in using the electricity at will & cut the supply when not desired, They are fancy and decorative when fitted properly, They are hard material and impact resistant & Polycarbonate moulding powder made plastic switches sockets have reasonably long life.

#### MARKET SURVEY

The market is estimated to have grown from about Rs 24 bn in 2003-04 to over to Rs 33 bn in 2006-07 and is expected to grow to Rs 43 bn in 2009-10. The organised market is about 40%, driven by increasing income levels of people and their quality preference.

Brown goods or domestic kitchen appliances are indicators of the changing consumer scenario in the wake of the liberalised economic environment. With the white goods segment becoming vibrant, the brown goods could not lag behind. Both segments have witnessed the onslaught of the global brands.

The branded brown goods market has expanded at a feverish pace. A major cause for this is the entry of over a dozen new brands supported by high profile media promotion.

While some products made a resounding entry, several others took time to make a perceptible mark. Rice cooker is one such item. It is being adopted increasingly.

#### Cost Estimation

Capacity : 3120000 Nos./ Annum  
 Ceiling Fans :120000 Nos.  
 Switch & Sockets: 3000000 Nos.

Plant & Machinery : 82 Lakhs  
 Cost of Project : 260 Lakhs  
 Rate of Return : 35%  
 Break Even Point : 62%

#### AAC BLOCKS

#### (AUTOCLAVED AERATED CONCRETE BLOCKS)

#### FLY ASH BASED

**A**utoclaved Aerated Concrete (AAC) is a non-combustible, lime-based, cementitious building material that is expanding into new worldwide markets. As a single-component building material, AAC has achieved acceptance in new markets throughout the world.

AAC has a history of one hundred of years and has become the pillar industry in construction field. In our country aerated techniques have been developed for about 40 years, and its technique skills and equipments are becoming mature. The AAC has the features of light bulk density, good thermal insulation properties and sound-absorption, certain strength and process ability, and its raw materials is very rich, especially the reuse of fly ash enables the comprehensive utilization of industrial residue, curbs environmental pollution, no destroy on farmland, create good social and economic benefits. AAC is an ideal alternative of the traditional clay brick wall materials. For many years AAC has been strongly supported by national wall reform policy, tax policy and environmental policy. In a sentence, AAC has been an important factor in new building materials and has a broad market prospect.

#### USES AND APPLICATIONS

AAC has been used in a variety of construction projects throughout the United States. It has been used for load-bearing walls and floor/roof systems in elementary and secondary school classrooms, multistory university dormitories, military base barracks, and various hotel chains. It has been chosen for its material properties and speed of construction. High-rise buildings have utilized AAC for shaft and fire walls due to its tremendous fire ratings. Manufacturing and warehouse facilities have found that AAC non-load-bearing cladding panels provide both an aesthetically desirable and acoustically functional solution for their projects. AAC has been used in single and multifamily construction for its thermal, acoustical, and fire performance.

AAC products are equally suitable for residential construction, multistory buildings, commercial, and industrial construction. The products are made of natural materials: sand, lime, and water. These raw materials are processed to provide a building material with a large number of air pores; hence, aerated concrete. Fine pores (nearly 70% of the product) and the solid structure of calcium silicate hydrate gives AAC its exceptional material properties.

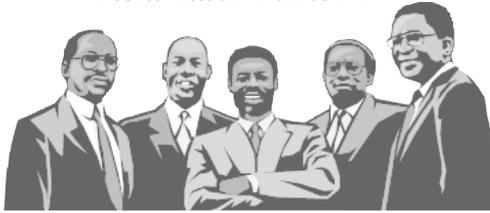
#### MARKET SURVEY

“The **autoclaved aerated concrete** sector of the construction industry is now in the phase of a tremendous growth cycle. The **autoclaved aerated concrete** industry must utilize competitive techniques as customers are looking for lowered costs. AAC is not a new building system but it is new to India. Autoclaved aerated concrete (“AAC”), though relatively unknown in India, is currently one of the many building products being touted as “green” or “environmentally friendly.” AAC is a lightweight manufactured building stone. Comprised of all natural

**Continue on page 32**



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
- ◆ Cheating 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, Pickles & Squash)
- ◆ Karela Powder (Bitter Guard Powder)
- ◆ Katha
- ◆ Katha and Cutch
- ◆ Khaine (Chewing Tobacco)
- ◆ Khandsari Sugar
- ◆ Lacithin (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
- ◆ Masala (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 & Kham
- ◆ 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/Wafers
- ◆ 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 & Suji)
- ◆ 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
  - ◆ Aloevera 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. (Diocetyl 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

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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 Megnesite 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 Photograph 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; Chandeliers</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>◆ Power 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 Metrial 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 Parlour
- ◆ Holiday Resort
- ◆ Hospitals
- ◆ Hotel (Small Hotel with Banquet Halls, Restaurant and Catering Facility)
- ◆ Hotel 5 Star
- ◆ Hotel/Small Hotel
- ◆ Ice Cream Parlour
- ◆ 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 Parlour & 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, Sweters, Caps, Muflers 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 Arlyic 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

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## 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
- ◆ Jali for Fan [Fan Gaurd] [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
- MISCELLANEOUS PRODUCTS
  - ◆ Advertising Agency
  - ◆ Agarbatti (Sticks)
  - ◆ Air Taxi (12 Seater)
  - ◆ Amusement Park
  - ◆ Amusement Park Cum Water Park
  - ◆ Ammonia Gas Bottling Plant
  - ◆ Artificial Flowers (Paper & Cloth)
  - ◆ Artificial Marble Tiles
  - ◆ Artificial Flowers
  - ◆ Asphaltic Roofing Sheet
  - ◆ Auto Workshop/Garage & Service Station
  - ◆ Automatic Book Binding Unit
  - ◆ Automatic Match Box with Match Stick Wooden & Waxed Strips
  - ◆ Bamboo Furniture
  - ◆ Bamboo Chips for Paper Mill
  - ◆ Bamboo Sticks Used for Agarbatti
  - ◆ Bamboo Tooth Picks (Cap. 64 MT/ Annum)
  - ◆ Bank (Private Sector)
  - ◆ Banquet Hall
  - ◆ Batchlor Physiotherapy (BPT College)
  - ◆ Bentonite
  - ◆ Bentonite (Quarrying, Processing & Exporting)
  - ◆ Bidi Manufacturing Unit
  - ◆ Body Building (Truck & Bus)
  - ◆ Bone Crushing Plant
  - ◆ Broom Stick Processing Unit
  - ◆ Buttons from Cattle Hoves
  - ◆ Buttons from Hoves & Horns
  - ◆ Canvas Shoes
  - ◆ Carbide Tips/Inserts/Indexable
  - ◆ Car-Leasing & Finance
  - ◆ Cancer Hospital (50 Beds)
  - ◆ Captive Power Plant
  - ◆ Captive Thermal Power Plant for Glass Industry
  - ◆ China Clay Washing/Purification
  - ◆ Cigarettes Unit
  - ◆ Cinema Hall
  - ◆ Coal Washing Unit
  - ◆ Coir Handicraft
  - ◆ Coir Industries
  - ◆ 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 & Refined)
- ◆ 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 Bagasse
- ◆ 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 & Bagasse
- ◆ 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 :

### NIIR PROJECT CONSULTANCY SERVICES

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)
  - ◆ Coating of Titanium Dioxide on Plastic Surface
  - ◆ 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 Films & 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
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  - ◆ 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
  - ◆ 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

raw materials, AAC is used in a wide range of commercial, industrial, and residential applications. AAC Reduces Additional Material Use and Minimizes Waste and Pollution.

Today, concrete used in most places, including many urban areas, is in proportion of 1:2:4 (cement: sand: coarse aggregate). This ancient technology has vanished at many sites in various metros. Proper concrete mix design is being done. This helps achieve superior quality and economy to the constructor. Concrete will no longer be a civil engineers' product. It will be a formulation of several chemicals with cement playing a major role.

The market size of cement and AAC is defined as the amount of cement and AAC products supplied to the total Indian marketplace, in a particular period. Therefore, market size is determined by supply rather than demand.

The outlook (for autoclaved aerated concrete) is more optimistic. Overall demand improvement will lead to a reduction in the inventory of unsold residential and commercial premises. In addition to this, residential construction from high-end apartments to affordable housing is being announced and expected to come on stream

The Indian cement industry is on a capacity expansion spree and was expected in 2007-08 to add another 60 mn tonne, with an investment of around Rs 100 bn. Between 2005 and 2008 around 55 companies announced either greenfield or brownfield expansion plans. With these projects, India's cement capacity was to touch a new high of approximately 200 mn tonne by 2008. Indian cement firms had also plans to increase their capacity by 74 mn tonne by 2010 with investment of Rs 300 bn. Companies like Zuari Cement, OCL, Dalmia Cement, Binani Cement, Birla Corp, India Cements, Saurashtra Cement, NCL Industries and JK Cement have proposed or are implementing capacity expansion projects. By 2008, about 21.5 mn tonne of additional capacity was expected to be realised through expansion only.

### Cost Estimation

Capacity	: 150000 cubic meter/ Annum
Plant & Machinery	: 1100 Lakhs
Cost of Project	: 1790 Lakhs
Rate of Return	: 44%
Break Even Point	: 53%

*Continue on page 34*

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



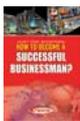
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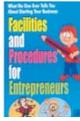
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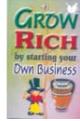
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## SELECTED PROJECTS FOR YOU

### GUTKHA & PAN MASALA

Pan Masala are widely used to remove bad odour of mouth and for scenting the breath in order to impart it a pleasant feeling. Pan masalas are available in the market in many different types, forms, brand, and standards. Now a days Pan Parag, Prince Gutka, Pan Mayur, Darbari type, Tambul, Maruti, Pan Bahar, Rajni Gandha, Manik Chand and number of other brands pan masalas are commonly used.

The sale and marketing of Pan Masala is increasing day by day. It is very clear from the fact that wherever you go in the market, in the town, in a village you will find some panwari shops around everywhere in every mohalla and in every street. As the sale of pan and Pan Masala is increasing there is enough scope for starting the manufacture of Pan Masala on a small scale. It is being manufactured by various trade names like Pan Bahar, Pan Parag, Pan Mayur, Darbari Pan Masala, Manoranjan pan Masala, Tambul Pan Masala, Rajni Gandha Pan masala Santoor Pan masala etc.

Powder form pan masala is made under various trade names now a days and are widely used.

#### USES OF PAN MASALA

Pan Masala is widely used for removing bad odour to impart a pleasant feeling, For scenting the breath in order to impart a pleasant feeling, For serving the guests, friends and in the parties and functions, As a substances for tobacco chewing and for smoking, It can be used in the Hotel and restaurants.

#### PROPERTIES OF PAN MASALA

It should not produce irritation effects in the mouth, It should cool the mouth, It should have scented affect in the mouth & NO excess of lime should be in the pan Masala.

#### MARKET SURVEY

Now days pan Masala has very good market demand due to customer's habit. There is very good scope of pan masala.

Actually on pan masala market data is not available but tobacco based product has market survey data. Basically pan masala is a substitute of tobacco products. Users of tobacco products largely converted to use pan Masala.

The major factors contributing to tobacco consumption have been global population and income growth. Tobacco is consumed mainly by the adult population and about 70 percent of world population is over 15 years of age. Per adult tobacco consumption, however, is on the decline in both the developing and developed countries. This significant development, however, is concealed by the fact that overall world tobacco use is expanding with population.

#### Cost Estimation

Capacity	: 180000 Kgs/Annum
	200 Kgs Pan Masala/ day
	200 Kgs Zarda/ day
	200 Kgs Kiman/ day
Plant & Machinery	: 14 Lakhs
Total Capital Investment	: 132 Lakhs
Rate of Return	: 47 %
Break Even Point	: 44 %

Market Survey Cum Detailed Techno Economic Feasibility Report on Required Projects can be had from



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Plastic Films, HDPE and Thermoset Plastics are now an accepted part of the industrial and domestic scenes but this growth has been comparatively recent. The major applications of HDPE are in the manufacturing of containers, pipes, house wares, toys, filament, woven sacks, film, wire and cable insulation. Thermoset is a polymeric material which can be formed by the application of heat and pressure, but as a result of a chemical reaction permanently cross links and cannot be reformed upon further application of heat and pressure. The present books offer an upto date overview of the processing of plastic films, HDPE and thermoset plastics. **₹1175 US\$125**

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This book covers thermosetting, thermoplastic materials and products environment health and future prospects. All plastic and allied products presenting with latest technology, development and manufacturing process including with some profitable plastic project profiles. A part from this, directory section is also included in manufacturers of plastic processing machinery and raw material suppliers with Tel. and Fax Nos. **₹975 US\$100**

### HAND BOOK ON **BIO-DEGRADABLE PLASTICS (ECO-FRIENDLY PLASTICS)**

Waste Plastics suffocated soil clog drainage and lead to whole lot of ecological problems, they have debilitating effects on ecology. This is the first book of its kind which give the complete information about bio-degradable plastics. **₹600 US\$100**

### **POLYMERS AND PLASTICS TECHNOLOGY HANDBOOK**

The book has been designed with the idea of blending and integrating basic polymer science and the technology of plastics into a composite structure. This book is an outcome of an endeavour in the direction of polymer and plastic processing. **₹750 US\$100**

### Modern Technology of **Plastic & Polymer Processing Industries**

This book offers, in a standardized and readily accessible information on the synthesis, structure, properties and applications of the most important polymeric materials. It has been designed as a text giving a balanced coverage of the science and technology of polymers finding major applications a plastics. **₹750 US\$100**

### 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 of 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, thereby 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**

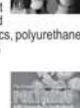
Wax and polishes are used for many purposes. Wax has their principal use in waterproofing. Some other important uses are in candles, polishes, electrical insulation, coatings and carbon paper. There are various types of polishes having industrial and domestic applications. The purpose of this book is 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**



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

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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

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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



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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 Formulae of different Herbal Medicines used in all kind of diseases. This is the first book of its own kind. ₹750 US\$100



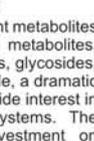
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