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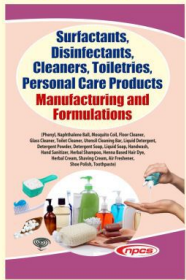
May 2021

36 Pages

## Surfactants, Disinfectants, Cleaners, Toiletries, Personal Care Products Manufacturing and Formulations

(Phenyl, Naphthalene Ball, Mosquito Coil, Floor Cleaner, Glass Cleaner, Toilet Cleaner, Utensil Cleaning Bar, Liquid Detergent, Detergent Powder, Detergent Soap, Liquid Soap, Handwash, Hand Sanitizer, Herbal Shampoo, Henna Based Hair Dye, Herbal Cream, Shaving Cream, Air Freshener, Shoe Polish, Toothpaste) **3rd Revised Edition**

₹1895/- US\$ 200-



The term surfactant comes from the words surface active agent. A surfactant is briefly defined as a material that can greatly reduce the surface tension of water when used in very low concentrations. These are one of many different compounds that make up a detergent. They are added to remove dirt from skin, clothes and household articles particularly in kitchens and bathrooms. They are also used extensively in industry.

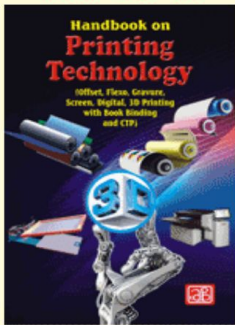
A disinfectant or agent that frees from infection is ordinarily a chemical agent which kills disease germs or other harmful microorganisms and is applied to inanimate objects. The specific way in which a disinfectant agent is used is dependent on both the desired objective and the infectious agent present. Growing emphasis on health, safety and sanitation is fuelling demand for disinfectants & surfactants across industries such as food processing, healthcare and consumer. Personal care industry in India is very huge and is one of the main key drivers for Indian surfactants market. Surfactants industry has a large market for consumer products.

This handbook contains processes formulae of various products and providing information regarding manufacturing method. It covers raw material suppliers, photographs of plant & machinery with supplier's contact details and some plant layout & process flow sheets. The major contents of the book are phenyl, floor cleaner, glass cleaner, toilet cleaner, mosquito coils, liquid detergent, detergent powder, detergent soap, naphthalene balls, air freshener, shoe polish, toothpaste, shaving cream, liquid soaps and hand-washes, herbal shampoo, henna based hair dye, herbal creams, utensil cleaning bar, hand sanitizer etc. It will be a standard reference

book for professionals, entrepreneurs, those studying and researching in this important area and others interested in the field of surfactants, disinfectants, cleaners, toiletries, personal care products manufacturing.

## Handbook on Printing Technology (Offset, Flexo, Gravure, Screen, Digital, 3D Printing with Book Binding and CTP) 4th Revised Edition

₹1675/- US\$ 150-



Printing is a process for reproducing text and image, typically with ink on paper using a printing press. It is often carried out as a large-scale industrial process, and is an essential part of publishing and transaction printing. Modern technology is radically changing the way publications are printed, inventoried and distributed. Printing technology market is growing, due to technological proliferation along with increasing applications of commercial printing across end users.

In India, the market for printing technology is at its nascent stage; however offers huge growth opportunities in the coming years. The major factors boosting the growth of offset printing press market are the growth of packaging industry across the globe, increasing demand in graphic applications, the wide range of application in

various industry, and industrialization. 3D printing market is estimated to garner \$8.6 billion in coming years. The global digital printing packaging market is expected to exceed more than US\$ 40.02 billion by 2026 at a CAGR of 13.9%. Computer-to-plate systems are increasingly being combined with all digital prepress and printing processes.

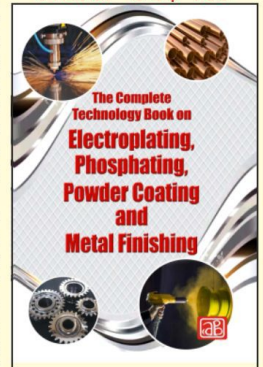
This book is dedicated to the Printing Industry. In this book, the details of printing methods and applications are given. The book throws light on the materials required for the same and the various processes involved. This popular book has been organized to provide readers with a firmer grasp of how printing technologies are revolutionizing the industry.

The major content of the book are principles of contact (impression), principles of noncontact printing, coated grades and commercial printing, tests for gravure printing, tests for letterpress printing, tests for offset printing, screen printing, application of screen printing, offset lithography, planography, materials, tools and equipments, sheetfed offset machines, web offset machines, colour and its reproduction, quality control in printing, flexography, rotogravure, creative frees printer, shaftless spearheads expansion, digital printing, 3D printing, 3D printing machinery, book binding, computer-to-plate (ctp) and photographs of machinery with suppliers contact details.

A total guide to manufacturing and entrepreneurial success in one of today's most printing industry. This book is one-stop guide to one of the fastest growing sectors of the printing industry, where opportunities abound for manufacturers, retailers, and entrepreneurs. This is the only complete handbook on the commercial production of printing products. It serves up a feast of how-to information, from concept to purchasing equipment.

## The Complete Technology Book on Electroplating, Phosphating, Powder Coating and Metal Finishing (2nd Revised Edition)

₹1675/- US\$ 150-



Electroplating is the process of depositing a metal coating onto the surface of an object through the use of an electrical current. Electroplating has evolved into a highly complex process requiring a high level of precision and expertise. Phosphating is the process of converting a steel surface to iron phosphate. This is mostly used as a pretreatment method in conjunction with another method of corrosion protection.

Powder coating is a finishing process in which a coating is applied electrostatically to a surface as a free-floating, dry powder before heat is used to finalize the coating. The powder can be made of any number of products: polyester, polyurethane, polyester-epoxy, straight epoxy, and acrylics. Metal finishing is the final step in the manufacturing process used to provide aesthetics and environmental protection.

The electroplating market mostly is driven by the electronics and electrical industry and followed by the automotive industry. The demand for electroplating is rising rapidly from the end user industries which propel the growth of the market. The increasing demand for durable metals and growing use of adaptable manufacturing processes for a wide range of applications in the automotive, aerospace & defense, and electrical & electronics industries are likely to boost the demand for electroplating. With the growing demand for high-performance automobile components having excellent resistance to corrosion to enhance the appearance of exterior automobile parts, such as emblems, door handles, hood ornaments, and wheel rims, is driving the demand for electroplating and likely to continue owing to the increasing automobiles production in Asia-Pacific and other emerging economies in the Middle East & Africa. The zinc-nickel electroplating is one of the popular methods of electroplating in the automotive industry.

The book cover various aspects related to different Electroplating, Phosphating, Powder Coating and Metal Finishing with their manufacturing process and also provides contact details of machinery suppliers with equipment photographs and plant layout.

A total guide to manufacturing and entrepreneurial success in one of today's complete process of electroplating to metal finishing in industry. This book is one-stop guide to one of the fastest growing electroplating, phosphating, powder coating and metal finishing industry, where opportunities abound for manufacturers, retailers, and entrepreneurs. The book serves up a feast of how-to information, from concept to purchasing equipment.



# Market Research Reports

While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- Good Present/Future Demand
- Export-Import Market Potential
- Raw Material & Manpower Availability

The report provides an expansive market analysis by covering areas like: growth drivers, trends prevailing in the industry, Demand-Supply Situation, Foreign Trade, Porters 5 Forces Analysis, regulatory framework as well as comprehensive SWOT analysis of the sector.

The report further establishes the regulatory framework of the industry. It encapsulates the status of the current legislation in the industry as well as the recent changes and developments in the regulations. The report also provides key player profiles along with key financials and comparison. The market research report shares vital information like shareholding pattern, revenue mix, plant location and financial summary of the key companies.

The market forecasts are developed on the basis of:

- Secondary Research
- Surveys One-on-one Interactions Databases
- Industry Sources

It covers contact information of Present major players like address of registered office, key financials like plant location, raw material consumption and financial comparison covering balance sheet, profit & loss account and financial ratios. The report by its graphical representation and forecasts of key data indicators helps in analyzing the market potential by elaborating on various factors that will contribute to the consumption growth of products in India, import-export markets of the products as well as market size and outlook of the industry.

Scope & Coverage of Market Research Report are:

- Present Status (Indian & Global)
- Internal Market Analysis
- Outlook & Forecasts (5 Years)
- SWOT & Porters Analysis

We at NPCS, through our reliable expertise in the project consultancy and market research field, have identified different projects, which satisfies all the customer requirements and has high growth potential in the market. We help catalyze business growth by providing distinctive and profound market analysis. We use authentic &

reliable sources to ensure business precision and through our report we aim to help you make sound and informed business decision. We have built a veritable reputation for our commitment to fulfilling our clients' exacting market research solutions. Our team of experts specializes in offering syndicated market research reports, customized research reports and consulting services at cutthroat prices.

## Reasons for Buying Report:

- The research report helps you get a detail picture of the industry by providing overview of the industry along with the market structure and classification.
- The report provides market analysis covering major growth driving factors for the industry, latest market trends and regulatory framework of the industry.
- Report provides analysis and in-depth financial comparison of major players/competitors.
- Report provides indispensable buyers data with their company financials as well as the contact details, which can be an important tool in identifying the target customers.
- The report provides forecasts of key parameters which helps to anticipate the industry performance.
- We use reliable sources of information and databases. And information from such sources is processed by us and included in the report.

## List of Ready Available Reports:

1. India Active Pharmaceutical Ingredient (API) Market
2. Maize (Corn) Products in India (Starch, Glucose, Dextrose, Sorbitol)
3. Cold Chain Logistics in India (Cold Storage & Reefers)
4. Market Research Report on Milk Processing & Dairy Products
5. Market Research Report on Packaged Fruit Juices & Drinks
6. Market Research Report on Future Potential of Flexible Packaging
7. Medical Devices & Disposables Industry
8. India Natural Food Colour Market
9. Bakery Industry in India
10. India Lithium-Ion Battery Market
11. Market Research Report on Detergent Industry
12. Market Research Report on FEMININE HYGIENE PRODUCTS
13. Market Research Report on Future of Online Retailing in India
14. Market Research Report on Edible Oils in India
15. India Beer Market
16. Vacuum Blood Collection Tube Market
17. Aluminium Easy Open End



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## **npcs** About NPCS

**E**ntrepreneur India, an Industrial monthly magazine on industrial development, technologies & project opportunities aims at simplifying the process of choosing the suitable project for investment. It makes business decisions easier and trouble-free for business leaders, young entrepreneurs, women entrepreneurs, investors, NRI (Non Resident Indian), startups, and professionals looking to start their own venture by providing information about right projects for investment. 'Entrepreneur India' - the right tool for identifying sound investment projects is published by Niir Project Consultancy Services (NPCS) An ISO 9001:2015 CERTIFIED COMPANY - a multidisciplinary project consultancy organization.

NPCS provides reliable consultancy services worldwide and has been excelling its expertise in a wide range of services. The services includes: investment opportunities, technology transfers, pre-feasibility study, business plan, new project identification, project feasibility, identification of profitable industrial project opportunities, thorough analysis of the project, plan all resources & details on capital and operational costs, economic feasibility study of the project, profile analysis, preparation of project profiles / pre-investment studies, market surveys / studies, preparation of techno-economic feasibility reports, funding analysis, market potential study, identification and section of plant / process / equipment, general guidance, technical and commercial counseling for setting up new business.

NPCS is one of the leading players in the industry endowed with the expertise, sound technical knowledge and intellectual asset. NPCS is a repository of reliable professional information for the entrepreneurial fraternity of India and has well experienced professionals in market research comprising of consultants, experts, field executives, researchers and analysts from different industries and sectors. We strive to provide a global platform for the entire entrepreneurial ecosystem by providing right project for investment, market survey studies and research through our advanced industrial, business and commercial databases.

We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. A large number of our Indian, Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success. We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.

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- Demand Studies.
- Brand Awareness and Preference Studies.
- Package and Concept Testing.
- Funding Analysis.

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## PROCESS TECHNOLOGY

### BOOKS (Limited Editions)

Only photostat copy available

₹ US \$

### Chemical/Jute/Pharma/ Drugs/Bio-Tech Hi-Tech Projects

Detailed Project Profiles on Chemical Industries (Vol. II) 2<sup>nd</sup> Rev.Edn. 1695/- 150

Detailed Project Profiles on 9 Selected Chemical Industries. 2<sup>nd</sup> Rev.Edn. 1995/- 150

Hand Book on 100% Export Oriented Jute & Jute Products (Eco Friendly Projects) 695/- 100

Investment Opportunity in Drugs & Pharmaceutical Projects 1895/- 150

Bio-Tech & Pharmaceutical Hand Book 1895/- 200

Hand Book on Projects in Export Thrust Area with International Market Survey (Bio-Tech & Pharmaceutical Technology) 1095/- 100

Detailed Project Profiles on Selected Hi-Tech Projects (Project Reports) 795/- 100

### Cereal Food/Food & Beverages/Dairy/Plantation/ AgroBased/Farming

Manufacture of Food & Beverages (2<sup>nd</sup> Edn.) 1895/- 150

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Detailed Project Profiles on Plantation (Agro Based Projects) 1095/- 100

Profitable Agro Based Projects with Project Profiles (Cereal Food Technology) 1895/- 150 (2<sup>nd</sup> Rev. Edn.)

Hand Book on Agro Based Industries (2<sup>nd</sup> Rev. Edn.) 1595/- 150

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## PROCESS TECHNOLOGY BOOKS

### NAME OF BOOKS

₹/US\$

### CHEMICALS, FINE CHEMICALS, VITAMINS, AMINO ACIDS AND PROTEINS

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- \* The Complete Technology Book on Fine Chemicals 1100/- 125
- \* Handbook On Fine Chemicals, Vitamins, Amino Acids And Proteins 1450/- 150
- \* The Complete Book on Non Ferrous and Precious Metals with Electroplating Chemicals 1975/- 200
- \* Modern Technology of Industrial Chemicals 1100/- 125

### PHARMACEUTICAL, DRUGS

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### PESTICIDES, INSECTICIDES

- \* The Complete Technology Book on Pesticides, Insecticides, Fungicides and Herbicides with Formulae & Processes 1100/- 100
- \* Biopesticides Handbook 1575/- 150

### STARCH & ITS DERIVATIVES

- \* The Complete Technology Book on Starch & Its Derivatives 1100/- 125

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- \* The Complete Technology Book on Wax and Polishes 1675/- 150
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### BIO-TECHNOLOGY, NANOTECHNOLOGY, ENZYMES, FOOD BIO-TECHNOLOGY, VERMICULTURE, VERMICOMPOST, BIO-FERTILIZER, ORGANIC FARMING, BIOGAS, MUSHROOM

- \* Bio-Technology Handbook 1100/- 125
- \* Plant Biotechnology Handbook 1100/- 125
- \* Enzymes Bio-Technology Handbook 1100/- 125
- \* The Complete Book on Biotechnology Based Bulk Drugs 1050/- 125
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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 (Biodegradable Films, Materials, Polymers, Aseptic Packaging, Labels and Labelling, Packaging of Cashew Nuts, Dairy Products, Milk, Fish, Meat, Shrimps, Canning of Vegetables, Fruits with details of Machinery and Equipments) 3rd. Rev. Edn. 1895/- 200
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- \* The Complete Technology Book on Snack Foods (2nd Rev. Edn.) 1475/- 150
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# PROCESS TECHNOLOGY BOOKS

NAME OF BOOKS

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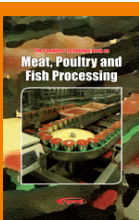
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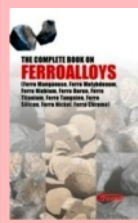
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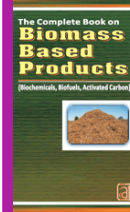
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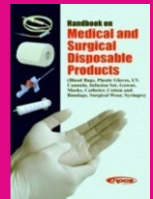
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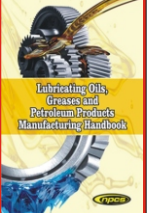


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## Hemodialysis Blood Tubing

The Chronic Kidney Disease (CKD) is increasing in alarming proportion all over the world. In India due to lack of financial resources, lack of trained manpower & infrastructure leads to severe strain on existing health policies in the light of the increasing burden of CKD.

Blood Tubing Sets for Hemodialysis designed specifically to connect patient with an external system that extracts blood of the patient to the dialyzer and reverts patient's blood from the dialyzer. Consists of 2 Parts: Arterial and Venous line which are used during dialysis with attached fistula and dialyzer. Unique chambers are there

which reduce foaming, increase air removal and do not trap EPO (Erythropoietin). This helps in ensuring secure machine fit and less incidence of wet out.

India dialysis market was valued at USD 3.1 billion

in 2017. The global kidney dialysis equipment market is touted to accumulate USD 16.5 billion at a stupendous 5.7 percent CAGR (compound annual growth rate) during the assessment period (2018–2023). Hemodialysis segment accounted for over 90 percent revenue share in 2017 and is projected to grow over the forthcoming years. In the center, dialysis accounted for more than 70 percent share in 2017. As a whole there is a good scope for new entrepreneur to invest in this business.

## Ayurvedic Pain Balm

A balm is a concentrated, waterless moisturizer that delivers the oil directly to the skin. And because there is no water, there is no need for emulsifiers. Oils blend and beeswax thickens it up. The absence of water also means that balms do not require much preservative, because bacteria cannot grow without water. They are preserved with either essential oils and/or vitamin E.

Balm is touted as a multipurpose product that may be used for a wide range of issues, especially pain. Here are some potential uses:

• Toenail fungus: The active ingredient camphor may treat this type of fungal infection. However, this study was done using Vicks VapoRub, not Balm.

• Back pain: The active ingredients camphor and menthol may help soothe this type of pain.

• Common colds: Menthol may alleviate cold symptoms.

• Congestion: A combination of menthol and eucalyptus may clear up congestion.

The government set up the Ministry of AYUSH (Ayurveda, Yoga, Unani, Siddha and Homoeopathy) in November 2014 to promote the country's indigenous alternative medicines including education and research. Thus, due to demand it is best to invest in this project.

## Chocolate & Confectionery Plant (Milk Chocolate, Dark Chocolate, White Chocolate, Orange & Tangy Flavour Toffee, Citric Flavoured Candies & Chocolate Wafers)

Chocolate is a product that requires complex procedures to produce. The process involves harvesting the cocoa beans, refining cocoa to cocoa beans, and shipping the cocoa beans to the manufacturing factory for cleaning, coating and grinding. These cocoa beans will then be imported or exported to other countries and be transformed into different type of chocolate products.

### PROJECT COST ESTIMATE CAPACITY

Milk Chocolate	: 1,600 Kgs Per Day
Dark Chocolate	: 1,600 Kgs Per Day
White Chocolate	: 1,600 Kgs Per Day
Orange & Tangy Flavour Toffee	: 1,200 Kgs Per Day
Citric Flavoured Candies	: 1,200 Kgs Per Day
Chocolate Wafers	: 1,600 Kgs Per Day
Plant & Machinery	: ₹ 249 Lakhs
Cost of Project	: ₹ 671 Lakhs
Rate of Return	: 29%
Break Even Point	: 54%

Confectionery products include a wide variety of food items, like – milk chocolate, white chocolate, citric flavor candies, orange flavor candies, tangy flavor candies, hard sweets, fudge, toffee, milk tablet, liquorices, jelly candies, marshmallow peeps, marzipan sweets, divinity, chewing gum, etc.

Growing at a compounded annual growth rate (CAGR) of about 25% Indian chocolate industry's size

### PROJECT COST ESTIMATE CAPACITY

Capacity	: 13,333.3 Bottles Per Day
Plant & Machinery	: ₹ 15 Lakhs
Cost of Project	: ₹ 293 Lakhs
Rate of Return	: 32%
Break Even Point	: 42%



is presently worth about 50 bn and is likely to cross Rs. 75 bn mark in the next couple of years while globally the chocolate industry is worth over USD 85 bn. Besides, India's per capita chocolate consumption is having at about 100 gm & urban centres comprise 35% of the chocolate consumption in the country. The world chocolate market is expected to be worth about USD 131.7 bn. India chocolate market projected to grow at a CAGR of over 16% to reach \$ 3.3 billion by 2023 with the country currently representing one of the world's fastest growing markets for chocolates. Entrepreneurs who invest in this project will be successful.

**Solar Panel**

**S**olar panel refers either to a photovoltaic module, a solar thermal energy panel, or to a set of solar photovoltaic (PV) modules electrically connected and mounted on a supporting structure. A PV module is a packaged, connected assembly of solar cells. Solar panels can be used as a component of a larger photovoltaic system to generate and supply electricity in commercial and residential applications.

Solar panels can be used to generate a portion of home's power in order to reduce dependency on traditional power sources. For instance, install panels to provide electricity just for appliances or lighting, to reduce dependency on the utility company, as well as lower bill. Solar modules use light energy (photons) from the sun to generate electricity through the photovoltaic effect.

India solar power products market is projected to grow at a CAGR of more than 11% to surpass \$ 7.6 billion by 2024 on the back of increasingly stringent policy and regulatory framework and rising environmental concerns. The

global solar panel market volume reached 155.5 GW in 2019. The market to sustain positive growth over the forecast period (2020-2025). As a whole there is a good scope for new entrepreneur to invest in this business.

**Dextrose Saline**

**N**ormal saline (NS or N/S) is the commonly used phrase for a solution of 0.90% w/v of NaCl, about 300 mOsm/L or 9.0 g per liter. A less commonly, this solution is referred to as physiological saline or isotonic saline, neither of which is technically accurate. NS is used frequently in intravenous drips (IVs) for patients who cannot take fluids orally and have developed or are in danger of developing dehydration or hypovolemia.

**PROJECT COST ESTIMATE CAPACITY**

Dextrose Saline 500 ml Size	: 15,000 Bottles Per Day
Dextrose Saline 1000 ml Size	: 15,000 Bottles Per Day
Plant & Machinery	: ₹ 1148 Lakhs
Cost of Project	: ₹ 1542 Lakhs
Rate of Return	: 25%
Break Even Point	: 44%

For medical purposes, saline is often used to flush wounds and skin abrasions. Normal saline will not burn or sting when applied. Saline is also used in I.V. therapy, intraveno supplying extra water to rehydrate patients or supplying the daily water and salt needs ("maintenance" needs) of a patient who is unable to take them by mouth.

The market for Intravenous (IV) Solution is expected to reach USD 11,511.2 million by 2022 and is expected to grow at a CAGR of 7.69% during the forecast period 2016-2022. The factors which drive the growth of the market are the rising prevalence of chronic diseases, rising acceptance of vitamin C intravenous treatment therapy to treat colorectal cancer. Thus, due to demand it is best to invest in this project.

**Carbon Black**

**C**arbon black is virtually pure elemental carbon in the form of colloidal particles that are produced by incomplete combustion or thermal decomposition of gaseous or liquid hydrocarbons under controlled conditions. Its physical appearance is that of a black, finely divided pellet or powder. Its use in tyres, rubber and plastic products, printing inks and coatings is related to properties of specific surface area, particle size and structure, conductivity and color.

Carbon black has been used in various applications for electronics. A good conductor of electricity, carbon black is used as a filler mixed in plastics, elastomer, films, adhesives, and paints. It is used as an antistatic additive agent in automobile fuel caps and pipes. The highest volume use of carbon black is as a reinforcing filler in rubber products, especially tyres.

Global consumption of carbon black, estimated at 13.2 million metric tons, valued at US\$13.7 billion, in 2015, is expected to reach 13.9 million metric tons, valued at US\$14.4 billion in 2016. Global consumption is forecast to maintain a CAGR (compound annual growth rate) of 5.6% between 2016 and 2022, reaching 19.2 million metric tons, valued at US\$20.4 billion, by 2022. Entrepreneurs who invest in this project will be successful.

**PROJECT COST ESTIMATE CAPACITY**

Capacity	: 166.7 MT Per Day
Plant & Machinery	: ₹ 2563 Lakhs
Cost of Project	: ₹ 8249 Lakhs
Rate of Return	: 49%
Break Even Point	: 25%

**Aluminium Easy Open End (EOE)**

**T**he term "easy open end" is used generally for that class of ends for containers that are provided with a built-in mechanism for permitting the consumer to open the container at the end for access to the ingredients within the container, without requiring the use of a can opener or other external tool.

One type of easy-open end that is in wide use is the so called "full-open" end, in which a peripheral score, generally circular in configuration, is formed in the end panel at or adjacent to the periphery thereof to permit its complete removal. Full-open type cans are to be distinguished from those self-opening cans which have a comparatively small removable section which, when opened, provide a comparatively small hole for dispensing the product. Sealing with PET Can, Aluminium can,

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

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Tinplate can, Metal can, Paper can, Composite can, Food can, Plastic can, etc.

Aluminium is used as a substrate, generally with an organic coating on both sides. This is necessary to facilitate the forming of the metal and/or to protect the metal against corrosion during the shelf life of the can or can end. As a whole there is a good scope for new entrepreneur to invest in this business.

PROJECT COST ESTIMATE CAPACITY	
Aluminium Easy Open End, : 2,016,000 Units Per Day 63 mm Size	
Aluminium Scrap	: 200 Kg Per Day
Plant & Machinery	: ₹ 5338 Lakhs
Cost of Project	: ₹ 8483 Lakhs
Rate of Return	: 29%
Break Even Point	: 35%

### 5 Star Hotel

A hospitality unit such as a restaurant, hotel, or an amusement park consists of multiple groups such as facility maintenance and direct operations (servers, housekeepers, porters, kitchen workers, bartenders, management, marketing, and human resources etc.). A hotel is an establishment that provides lodging paid on a short-term basis. Facilities provided may range from a modest-quality mattress in a small room to large suites with bigger, higher-quality beds, a dresser, a fridge and other kitchen facilities, upholstered chairs, a flat screen television and ensuite bathrooms.

In areas receiving foreign visitors, hotels are often important foreign currency earners and in this way may contribute significantly to their countries' balance of payments. Hotels are also important outlets for the products of other industries. In the building and modernization of hotels, business is provided for the construction industry and related trades. Equipment, furniture and furnishings are supplied to hotels by a wide range of manufacturers. INR (\$1.7 Billion) in 2019 and average annual revenue/room was ~\$12,400 per annum.

### Washing Powder

A detergent is a surfactant or a mixture of surfactants with cleansing properties in dilute solutions. These substances are usually alkyl benzene sulfonates, a family of compounds that are similar to soap but are more soluble in hard water, because the polar sulfonate (of detergents) is less likely than the polar carboxylate (of soap) to bind to calcium and other ions found in hard water. Synthetic detergents have expanded rapidly all over the world.

Detergent powder are largely used in the domestic houses, commercial sectors, hotel industries, garment industries and in many other sections of the society. There

is high price, medium price and low priced detergent available. There are different kinds of raw material used in the industries for detergent manufacturing. There is large demand of this consumer item.

PROJECT COST ESTIMATE CAPACITY	
Capacity	: 1,000 Kgs. Per Day
Plant & Machinery	: ₹ 24 Lakhs
Cost of Project	: ₹ 55 Lakhs
Rate of Return	: 26%
Break Even Point	: 69%

The detergent market in India is dominated by HUL. Nirma is the second largest player with an overall market share of 19%. Nirma is more dominant in the states of Gujarat, Rajasthan, Punjab and Haryana, that is Northwest India. Nirma has the highest market share of around 40% in Gujarat. It has the highest market share in the mass segment, like toilet soaps. As a whole there is a good scope for new entrepreneur to invest in this business.

### Cross-Linked Sodium Carboxymethyl Cellulose

Cross-linked sodium carboxymethyl cellulose is also known as croscarmellose sodium or modified cellulose gum. Crosslinked sodium carboxymethylcellulose (CMC), croscarmellose, is prepared by the reaction of Na-CMC with acids. The raw material is usually a high viscosity sodium CMC with a low degree of substitution. The cross-linking reduces water solubility while still allowing the material to swell (like a sponge) and absorb many times its weight in water. As a result, it provides superior drug dissolution and disintegration characteristics. Cross-linked sodium carboxymethyl cellulose is used in tablets of table-top sweeteners and dietary food supplements, as it facilitates disintegration in aqueous solutions, with a maximum level of use of 30 g/kg.

The global carboxymethyl cellulose (CMC) market was estimated at \$1,151.7 Million in 2014 and is projected to register a CAGR of 4.2% between 2015 and 2020. Carboxymethyl cellulose (CMC) or cellulose gum is a cellulose derivative with carboxymethyl group in its chain. CMC is physiologically inert, chemically stable, odorless and tasteless substance which safe for health and environment. The growth of processed food industry, increasing pharmaceutical and cosmetics production, and the growing oil drilling activities are the major factors driving the growth of CMC market. As a whole entrepreneur can venture in this field will be successful.

PROJECT COST ESTIMATE CAPACITY	
Deluxe Rooms (Rent)	: 38 Nos. Per Day
Executive Rooms (Rent)	: 28Nos.PerDay
Business Clientele Rooms (Rent)	: 17 Nos. Per Day
Suits Rooms (Rent)	: 17 Nos. Per Day
CoffeeShop(Visitors)	: 25 Nos. Per Day
Restaurant(Visitors)	: 75 Nos.Per Day
Bar(Visitors)	: 25 Nos. Per Day
Marriage Season – Booking	: 0.15 Nos. Per Day
Birthday	: 0.17 Nos. Per Day
Conferences	: 0.17 Nos. Per Day
Anniverseries	: 0.17 Nos. Per Day
Plant & Machinery	: ₹ 1172 Lakhs
Cost of Project	: ₹ 4032 Lakhs

PROJECT COST ESTIMATE CAPACITY	
Cross Linked Sodium Carboxymethyl Cellulose	: 1000 Kgs./Day
Plant & Machinery	: ₹ 34 Lakhs
Cost of Project	: ₹ 144 Lakhs
Rate of Return	: 27%
Break Even Point	: 70%

### Betel Nut (Supari) Processing

Areca nut is the nut of areca palm. Biological name of areca nut palm is Areca catechu and it is a member of the family arecaceae or palmar. It is also called betel nut, as it is usually chewed with betel leaf and lime. Betel nut is a seed of the Areca catechu, a type of palm tree. It's commonly chewed after being ground up or sliced and wrapped in leaves of the Piper betel vine that have been coated with lime. This is known as a betel quid.



Tobacco or flavorful spices may also be added. The dust and 'Chogaru' are traditionally used as a masticatory and for tanning leather. The tannins of arecanut tan leather satisfactorily except for the colour.

India is the highest producer of areca nut with a production of around 3.3 lakh tones and a total acreage under cultivation of 2.64 lakh hectares, with Karnataka and Kerala accounting for nearly 72 per cent of the total production. Over six million people are engaged in areca nut cultivation, processing and trade. More than 85 per cent of the area under cultivation is made up of small and marginal holdings. Among the two varieties white nuts have a share of 60 per cent. India is also the largest consumer with around 3.2 lakh tonnes. As a whole you can invest in this project without risk and earn profit.

**PROJECT COST ESTIMATE**

**CAPACITY**

Supari	: 500 Kgs. /Day
Tannin	: 33 Kgs. /Day
Brushes/Rope	: 250 Kgs. /Day
Pan Masala	: 500 Kgs. /Day
Plant & Machinery	: ₹ 42 Lakhs
Cost of Project	: ₹ 191 Lakhs
Rate of Return	: 27%
Break Even Point	: 58%

can be used for making wine, jam, juice, jelly, grape seed extract, raisins, vinegar, and grapeseed oil. Table grapes are most often packaged in plastic punnets, such as clamshells. These punnets are then placed in a cardboard crate. The processes at the export packhouse include: receipt of raw material at packhouse; weighing and acceptance of produce; trimming, sorting and grading; weighing, packing and coding; pre-cooling; sulphur dioxide padding; palletization; storage (cold stores); container loading; and transportation.

Grapes account for 2.7 percent of production and 1.4 percent of total fruit area in India. India is a small producer of grapes, with a world share of less than 2 percent. India produced

more than 1.2 million tonnes of grapes from 0.11 million ha. Grapes are one of India's important fruit exports, with a 9.1 percent share in all fruit and nut export. As a whole any entrepreneur can venture in this project without risk and earn profit.

**PROJECT COST ESTIMATE**

**CAPACITY**

Grapes Packing for Exports	: 4 MT/Day
Plant & Machinery	: ₹ 294 Lakhs
Cost of Project	: ₹ 708 Lakhs
Rate of Return	: 28%
Break Even Point	: 61%

**Calcium Gluconate**

Calcium gluconate is the calcium salt of gluconic acid. In order for the product to be registered as a food fortificant, it must be prepared at high purity, i.e. without the presence of by-products that are unregistered. An important disadvantage of calcium gluconate is that it is relatively costly to produce. For the production of calcium gluconate an enzymatic process is preferred because of its high specificity and the resulting high purity of the product. However, the solubility of calcium gluconate under the conditions required for optimal enzymatic conversion (pH 5-7, 30-35°C.) is only 40 g/L. Calcium Gluconate can be used in Food, Beverage, Pharmaceutical, Health & Personal care products, Agriculture/Animal Feed/Poultry.

The international market for calcium gluconate can be divided largely on the basis of application, end use, in addition to the available form. On the basis of the end use, the market for calcium gluconate may be additionally divided into bulking agent, emulsifier, and thickening

agent. The global market for calcium gluconate is projected to grow as a result of the mounting demand from different end-use industries with the highest demand expected from pharmaceutical and food and beverages. The major global key players in this space include: Noah Technologies Corporation, Aaron Industries, Inc. AKZO Nobel Chemicals Inc, American Biorganics, Inc, Coyne Chemical, Alfa Aesar, PMP Fermentation Products, Inc and Glucona America, Inc. These companies are staying competitive by developing innovative market, which include mergers and acquisitions, new product development, joint ventures, and expansion. Thus, as an entrepreneur this project offers an exciting opportunity to you.

**Exercise Note Book**

Exercise books are widely known & vastly used as day-to-day products. Notebooks are available in the market in various sizes, shapes & pages and having various types of covers paper bound, board and Rexene bound etc. Writing pads, exercise notebooks and ring books are made from paper sheet layers which are commonly ruled, stitched or glued and used for writing. They are composed of pages, often ruled, made out of paper, used for purposes including recording notes or writing, drawing and similar activities.

The demand for notebooks is projected to reach 2,250 tons and 3,155 tons by the year 2017 and 2022. India exercise notebook market is expected to reach Rs. 334.6 billion by FY'2020. India exercise notebook market, segmentation on the basis of Use, Number of Pages, GSM, Recycled/Non-Recycled Papers, Retail/Institutional Sales, Size, Bindings, Cover Types, City Tiers, Rural/Urban Demand and Paper Types. India stationery market revenues are projected to grow at a CAGR of 10.5% during 2018-24.

Thus, due to demand it is best to invest in this project.

**PROJECT COST ESTIMATE**

**CAPACITY**

Exercise Note Books	: 10000 Pcs./Day (17x27 cm.)
Plant & Machinery	: ₹ 48 Lakhs
Cost of Project	: ₹ 86 Lakhs
Rate of Return	: 27%
Break Even Point	: 67%

**PROJECT COST ESTIMATE**

**CAPACITY**

Calcium Gluconate	: 5 MT/Day
Plant & Machinery	: ₹ 63 Lakhs
Cost of Project	: ₹ 208 Lakhs
Rate of Return	: 28%
Break Even Point	: 52%

**Grapes Packing for Exports with 100 MT Cold Storage**

A grape is a fruit, botanically a berry, of the deciduous woody vines of the flowering plant genus Vitis. Grapes can be eaten fresh as table grapes or they

**Ladies under Garments**

Hosiery industry is an ancient industry in the field of textile industry having very good potential in domestic market and also in the export market. Ludhiana in the state of Punjab is one of the largest and oldest centres of Hosiery industry in India.

Lingerie has been an intimate part of a woman's life since long. They are considered as an important garment among females for properly supporting and covering their sensitive body parts, it keeps them fit for daily general works. The market was highly fragmented and was dominated by local and unorganized brands.

Between 2000 and 2008, premium international brands started foraying into the Indian market. Indian brands showcased new designs and styles to woo the

new age Indian women. The focus was mainly on the width of the product range. Men's and women's innerwear began to be sold through a variety of retail formats such as EBOs, LFS and departmental stores. India's lingerie market is currently valued at \$3 billion. A mere 1% of it is online. In the next few years the market value is projected to jump to \$5 billion. As a whole it is a good project for new entrepreneurs to invest.

## Canvas Shoes (Vulcanized Rubber)

Footwear refers to garments worn on the feet, which originally serves to purpose of protection against adversities of the environment, usually regarding ground textures and temperature. The design of shoes has varied enormously through time and from culture to culture, with appearance originally being tied to function. High fashion shoes may be made of very expensive materials in complex construction and sell for thousands of dollars a pair. Other shoes are for very specific purposes, such as boots designed specifically for mountaineering or skiing.

The shoes market, like most other product markets has diverse segmentations. First, by material of construction (leather, canvas and etc..) second, by consumer variation (men's, women's) third, by usage pattern (formal shoes, casual and informal shoes) fourth, by types of shoes (military or police boots, formal dress, closed and pump shoes) and fifth, by price range (high-end over Rs. 1500 per pair going beyond Rs. 3000 per pair, medium priced shoes between Rs. 250 to Rs. 1500 per pair, and low-priced shoes below Rs. 250 per pair).

The global footwear market is predominantly dictated by consumer trends. The surging demand for designer yet comfortable shoes among women and sportswear or athletic shoes among men have been bolstering opportunities for footwear sales. This increasing focus on sportswear will bolster opportunities for the footwear market. By the end of 2023, the market is expected to reach US\$258.21 bn. As a whole it is a good project for new entrepreneurs to invest.

## Recovery of Lead

Lead is a material very easy to recycle and, provided that adequate procedures are implemented; the final product (secondary lead) is indistinguishable from the primary lead produced from ores. About 50% of the lead consumed worldwide is derived from recycled and reused materials. There are many different uses of Lead. It may be used as a pure metal, alloyed with other metals, or as chemical compounds.

The recovery of metals from metal scrap has the advantage that it is easier and far less energy dependent than the production of primary lead from ores. The production of recycled lead requires 35-40% of the energy

necessary to produce lead from ores. In addition, the recovery of lead decreases the lead dispersion in the environment and preserves the mineral reserves for the future. Recycling lead is relatively simple and in most of the applications where lead is used, such as lead-acid batteries, it is possible to recover it for use over and over again.

Lead batteries industry in India is currently estimated at Rs 40,000 crore with 60% automotive and 40% industrial. Over thousands of player continued recycling activity in India through recovery of lead from telecom, uninterrupted power supply (UPS), inverters, renewable energy and other related industries. Thus, due to demand it is a good project for entrepreneurs to invest.

PROJECT COST ESTIMATE CAPACITY	
Bra	: 450,000 Pcs/Annum
Panties	: 450,000 Pcs/Annum
Plant & Machinery	: ₹ 121 Lakhs
Cost of Project	: ₹ 270 Lakhs
Rate of Return	: 28%
Break Even Point	: 56%

PROJECT COST ESTIMATE CAPACITY	
Lead Ingot	: 1944 MT/Annum
Plant & Machinery	: ₹ 66 Lakhs
Cost of Project	: ₹ 257 Lakhs
Rate of Return	: 28%
Break Even Point	: 57%

## Ginger Oil

Ginger products, such as ginger oil is internationally commercialized for use in food and pharmaceutical processing. To improve their appearance some grades of ginger are bleached by various means by liming.

Ginger oil can vary in color from pale yellow to a darker amber color and the viscosity also ranges from medium to watery. The main Application for the ginger oil is confectionery, beverages and baked products. There is also a minor outlet in the perfuming industry particularly in certain Cosmetic products for men Limited amount of ginger oil are sometime added to the oleoresin to produce the required balance between odour and pungency.

Essential Oil Market is expected to reach \$11.5 billion by 2022, with a CAGR of 10.1% from 2016 to 2022. Essential oil is obtained from various herbs and plants, such as orange, eucalyptus, corn mint, peppermint, citronella, lemon, lime clover leaf, ginger and spearmint, using distillation methods such as steam and water distillation. The major factor boosting the market growth is the increasing consumer preference for natural and organic products be it cosmetics, food or similar other product categories.

Thus, as an entrepreneur this project offers an exciting opportunity to you.

PROJECT COST ESTIMATE CAPACITY	
Canvas Shoes	: 1200,000 Pairs/Annum
Leather Shoes	: 900,000 Pairs/Annum
Plant & Machinery	: ₹ 607 Lakhs
Cost of Project	: ₹ 1006 Lakhs
Rate of Return	: 30%
Break Even Point	: 64%

PROJECT COST ESTIMATE CAPACITY	
Ginger Oil	: 45,000 Kgs/Annum
Plant & Machinery	: ₹ 103 Lakhs
Cost of Project	: ₹ 274 Lakhs
Rate of Return	: 27%
Break Even Point	: 62%

## Aloe Vera Gel and Powder

Aloe Vera Gel is one of the product prepared from aloe vera itself. Aloe vera Gel has very good medicine for external use for sun burning and pain killer. It has various medicinal values which makes very good commercial value.

Aloe Vera Powder is composed of the freeze-dried inner "gel" of aloe leaf plant. Spray drying and freeze drying are the most common methods of producing aloe vera powder from gel.

The global aloe vera extracts market revenue is anticipated to expand at a CAGR of over 7.7% in terms of value and 7.4%, in terms of volume during the forecast



period. Factors such as increasing trend of consumers towards healthy lifestyle, coupled with increased usage of aloe vera extracts as an ingredient by food, pharmaceutical and cosmetics industries is fuelling market growth across the globe.

Cosmetics, the large end-use sector for aloe vera extracts, will account for over 45% of global demand in 2016, with annual volumes totaling 27,458.5 tonnes—an increase of 6% over 2015. Thus, due to demand it is a good project for entrepreneurs to invest.

**PROJECT COST ESTIMATE  
CAPACITY**

Aloevera Gel	: 90,000 Kgs/Annum
Aloevera Powder	: 15,000 Kgs/Annum
Plant & Machinery	: ₹ 42 Lakhs
Cost of Project	: ₹ 164 Lakhs
Rate of Return	: 27%
Break Even Point	: 49%

**Autoclaved Aerated Concrete Blocks (AAC Blocks)**

**A**utoclaved Aerated Concrete (AAC) is a non-combustible, lime-based, cementitious building material that is expanding into new worldwide markets. 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. This is a light-weight building material produced by autoclaving a set mix of fine siliceous materials such as ground sand or fly ash and a binder like Portland cement or lime.

AAC products are equally suitable for residential construction, multistory buildings, commercial, and industrial construction.

The autoclaved aerated concrete sector of the construction industry is now

**PROJECT COST ESTIMATE  
CAPACITY**

AAC Blocks	: 500 Cubic Meters/Day
Plant & Machinery	: ₹ 601 Lakhs
Cost of Project	: ₹ 1415 Lakhs
Rate of Return	: 25%
Break Even Point	: 50%

in the phase of a tremendous growth cycle. AAC Reduces Additional Material Use and Minimizes Waste and Pollution. The main benefits of autoclaved aerated concrete over other cladding materials are its good strength-

to-weight ratio, its mobility and, because it is a non-combustible material, its fire performance. There will be phenomenal growth in autoclaved aerated industry in the near future. It is estimated that by 2025 about 66 per cent of the world population will live in urban areas on 7 per cent of the land, which means that urbanization will be on a small portion of land. This will need taller buildings and use of high strength concrete.

**Baby Cereal Food**

**T**he Baby-cereal-foods is that enriched food which has a requisite level of nutrition. This requisite level is prescribed by various dietitians & physicians for children. Various experts fixed a definite calorific value for infant food & based on this the various mixtures or formulae of foods are developed.

Food products are derived from single grains or blends of mixed grains combined with other ingredients for flavour and nutritional fortification. Materials used by various manufacturers in addition to the grains include malt, milk powder, vegetable oil, wheat germ, sugar, cotton seed flour, tri and dicalcium phosphate, dried yeast, a form of iron such as sodium iron pyrophosphate and the vitamin B1 (thiamin), riboflavin and niacin.

The baby food market in India is witnessing rapid growth and is growing by 10-12% a year. India has the largest population of 0-4 year old in Asia. Additionally, due to the increasing number of working women, and the increasing parental concerns about nutrition have led to its growth. Professionally-made food designed to meet the nutrition requirements of babies also address the problems of paucity of time for preparing baby food at home. As a whole it is a good project for new entrepreneurs to invest.

**PROJECT COST ESTIMATE  
CAPACITY**

Baby Cereal Food (Packing in 225 gms Size Packet)	: 600,000 Kgs/Annum
Plant & Machinery	: ₹ 35 Lakhs
Cost of Project	: ₹ 82 Lakhs
Rate of Return	: 32%
Break Even Point	: 72%

**Garlic Oil and Powder**

**G**arlic is one of the important bulb crops grown and used as spice and condiment throughout India. It possesses a high nutritive value and medicinal property. Allicin, the principle of garlic has antibiotic properties. The plant is a small herb and produces a group of small bulbs called cloves covered with a thin skin. The seed stalks bears both seeds and bulblets in the same head. However, seed is seldom used for propagation as the cloves are more commonly used.

Oil is one of the three major classes of food substances; the others are protein and carbohydrates. Garlic oils are naturally occurring esters of glycerol and fatty acids that have commercial uses, some oils are called trimester examples are triglycerides or simple glycerides. The physical and chemical properties of garlic oils are determined to a large extent by the type of fatty acids in the glycerides. In all commercially important glycerides, the fatty acids are straight chain and nearly all contain even number of carbon atoms.

Garlic is taken orally to reduce high blood pressure, prevent heart disease and arteriosclerosis, treat earaches, stimulate both the immune and circulatory systems and prevent cancer. Other applications include treating diabetes, arthritis, colds and flu, fighting stress and fatigue and maintaining healthy liver function. Garlic also contains protein and the B vitamins thiamin and riboflavin, and trace minerals such as zinc, tin, calcium, potassium, aluminium, germanium, selenium and of course, sulfur.

The increasing importance of natural extracts as pharmaceutical & natural cosmetic aid and their use

**PROJECT COST ESTIMATE  
CAPACITY**

Garlic Oil	: 10 Kgs/Day
Garlic Powder	: 2 MT/Day
Plant & Machinery	: ₹ 58 Lakhs
Cost of Project	: ₹ 241 Lakhs
Rate of Return	: 25%
Break Even Point	: 56%

as nutraceutical ingredients in recent times has opened up new vistas for this sector besides their widespread use as flavour & fragrance ingredients. India will play a dominant role in the production & processing of these natural extracts. Country's biodiversity coupled with competent scientific force, make our country as the best choice to become a foremost leader in aroma business in the coming years. Thus it is a good project for investment.

## Polyethylene Wax

**W**axes are among the oldest worked materials used by humans. Their value as versatile construction materials (man's first plastic) was discovered very early. Today, waxes are used mostly as additives and active substances. The use of waxes is expected to increase in the future because of their generally favorable toxicological and ecological properties.

The word wax usually refers to a variety of organic substances that are solid at ambient temperature but become free-flowing liquids at slightly higher temperatures. The chemical composition of waxes is complex, but normal alkanes are always present in high proportion and molecular weight profiles tend to be wide. The main commercial source of wax is crude oil but not all crude oil refiners produce wax. Mineral wax can also be produced from lignite. Plants, animals and even insects produce materials sold in commerce as wax.

Polyethylene is made in a polymerization reaction by building long molecular chains comprised of ethylene monomers, mostly by using catalysts. The type and nature of the catalysts are of great influence on the polymerization. As catalysts became more efficient, the polyethylene products became purer and

more versatile and the production process became simpler and more efficient. Demand for polyethylene wax in India will go up in tune with the performance of the application sector. In view of the versatile applications of the product in diversified sector, the demand for PE wax is likely to go up steadily in the coming years. Considering the Indian demand and export opportunities, PE wax project can be favourably viewed in India for investment.

## Acrylic Emulsion Paints

**P**aint is used to decorate, protect and prolong the life of natural and synthetic materials, and acts as a barrier against environmental conditions. Paints may be broadly classified into Decorative paints, applied on site to decorate and protect buildings and other objects, and Industrial coatings which are applied in factories to finish manufactured goods such as cars.

Paints contain: pigment(s)—prime pigments to impart color and opacity; binder (resin)—a polymer, often referred to as resin, forming a matrix to hold the pigment in place; extender—larger pigment particles added to improve adhesion, strengthen the film and save binder; solvent (sometimes called a thinner)—either an organic solvent or water is used to reduce the viscosity of the paint for better application. Water-borne paints are replacing some paints that use volatile organic compounds such as the hydrocarbons which are harmful to the atmosphere; additives—used to modify the properties of the

### PROJECT COST ESTIMATE

#### CAPACITY

Pure Acrylic Emulsion Paint	: 66 MT/Day
Styrene Acrylic Emulsion Paint	: 50 MT/Day
Vinyl Acrylic Emulsion Paint	: 50 MT/Day
Plant & Machinery	: ₹ 298 Lakhs
Cost of Project	: ₹ 1874 Lakhs
Rate of Return	: 28%
Break Even Point	: 50%

liquid paint or dry film.

The binder (resin) and solvent together are sometimes known as the vehicle. The binder may be dissolved as a solution or carried as a dispersion of microscopically small particles in a liquid.

Paints are formulated according to their

proposed use—primer, undercoat, special finishes (matt, gloss, heat resistance, anti-corrosion, abrasion resistance). The pigment powder is broken down into individual particles which are coated by and dispersed in the binder (resin)—known as 'wetting out'. Solvent is then added to give the required consistency. Each batch of ingredients is thoroughly mixed in large, stirred containers with the required additives.

## Floral Foam

**F**loral foam is a dense, lightweight and porous material that can be cut into virtually any shape. It holds its shape when wet and provides both water and support to cut flower arrangements. The density of floral foam means that it holds large quantities of water, which in turn, increases the life of flowers. It also provides increased support to the flower stems, giving more control with flower arrangements. Floral foam originally appeared as a green brick. Floral foams have become a permanent staple in the art of flower arrangement. By providing trouble-free support for flowers, many designs have been made achievable, giving flower arranging artists more room to come up with every design that they can imagine. Made of phenol material, floral foams are used as a base for mostly every conceivable design.

Government of India has identified floriculture as a sunrise industry and accorded it 100% export oriented status. Owing to steady increase in demand of flower floriculture has become one of the important

Commercial trades in Agriculture. Indian floriculture industry comprises the florist trade, nursery plants, bulb and seed production, apart from production of micro propagation material, and extraction of essential oils from flowers. The industry has been growing at a CAGR of 25 percent over the past decade. As a whole any entrepreneur can venture in this project without risk and earn profit.

## Pre-Mix and Animal Feed (Poultry and Cattle)

**A**nimal production has been taking place over a long time, with the availability of compound feed being only a relatively recent innovation. This is a feed which is designed to provide the animals' daily requirement of all known nutrients, and no more, and is intended to obtain maximum levels of production with minimum wastage of nutrients and at minimum feasible cost. Compound feed mills may be linked to a source of raw materials, such as a wheat mill or oilseed crushing plant; to a market outlet, such as a poultry or dairy enterprise; or they may be independent.

### PROJECT COST ESTIMATE

#### CAPACITY

Floral Foam	: 12000 Pcs./Day
Plant & Machinery	: ₹ 68 Lakhs
Cost of Project	: ₹ 270 Lakhs
Rate of Return	: 27%
Break Even Point	: 46%



Feed Premix Market size is projected to exceed USD 10.5 billion by 2023, at more than 2.9% CAGR. Rising consumer awareness about product health benefits may drive premix market. Global poultry feed premix market is expected to exceed over USD 2.1 billion by 2023, at more than 3.5% CAGR. Global aqua feed premix market is projected to exceed USD 400 million by 2023, at more than 4% CAGR. Consumption of fish and fish products is high in the aquaculture industry. This facilitates the development of new technologies and ensures a high quality product.

PROJECT COST ESTIMATE CAPACITY	
Cattle Feed	: 64 MT/Day
Poultry Feed	: 32 MT/Day
Pre-Mix Feed	: 4 MT/Day
Plant & Machinery	: ₹ 133 Lakhs
Cost of Project	: ₹ 543 Lakhs
Rate of Return	: 68%
Break Even Point	: 37%

Popular pan masala brand Rajnigandha, produced by Dharampal Satyapal (DS) Group, has 65 per cent market share. Dharampal Satyapal, with sales of Rs 1,600 crore, is headquartered in Noida. This facilitates the development of new technologies and ensures a high quality product.

## Water Soluble Fertilizer Blends for Drip Irrigation Systems

A water soluble fertilizer is a compound that dissolves easily in water and provides nutrients for plants. This type of fertilizer may then be absorbed quickly and completely by the plant root system. It is typically used entirely by the plant and washes out of the soil without leaving behind an excess of unused nutrients or toxins. With water soluble fertilizers it is easy to control the precise amount of nutrients available to plants.

India water soluble fertilizers market stood at around \$ 185 million in 2016 and is projected to grow at a CAGR of over 6% to surpass \$ 356 million by 2027,

PROJECT COST ESTIMATE CAPACITY	
NPK Fertilizer (19-19-19)	: 32 MT/Day (in 5 Kgs Size Pack)
Plant & Machinery	: ₹ 87 Lakhs
Cost of Project	: ₹ 529 Lakhs
Rate of Return	: 28%
Break Even Point	: 60%

on account of increasing popularity of complex water-soluble fertilizers and micronutrients in horticulture and ornamental crops. India is the second biggest consumer of fertilizer in the world next only to China. As a whole any entrepreneur can venture in this project without risk and earn profit.

## Dairy Farming

Dairy farming is a class of agriculture for long-term production of milk, which is processed for eventual sale of a dairy product. Dairying is an important source of subsidiary income to small/marginal farmers and agricultural laborers. The share of livestock product is estimated at 21% of total agriculture sector. Milk production alone involves more than 70 million producers, each raising one or two cows/buffaloes primarily for milk production. In addition to milk, the manure from animals provides a good source of organic matter for improving soil fertility and crop yields.

India is the world's largest milk producer, accounting for more than 13% of world's total milk production. As it is the world's largest consumer of dairy products, but consuming almost 100% of its own milk production. It is expected that the world milk production will rise to 867 MMT by 26 per cent from current 714 MMT. However, as per the current CAGR of 4 per cent and optimistic projection of 4.5 per cent, India's milk production is estimated to touch 180 million MT by 2020. Thus, due to demand it is best to invest in this project.

PROJECT COST ESTIMATE CAPACITY	
Cow Milk (Ltrs.)	: 756000 Units /Annum
Manure (MT)	: 1080 Units /Annum
Calf (Nos.)	: 126 Units /Annum
Plant & Machinery	: ₹ 47 Lakhs
Cost of Project	: ₹ 529 Lakhs
Rate of Return	: 21%
Break Even Point	: 50%

## Bauxite Calcination (by Rotary Kiln with Fine Grinding Ball Mill)

Calcined bauxite is an important raw material for two main markets: refractories and abrasives. Bauxite is a naturally occurring, heterogeneous material comprised primarily of one or more aluminum hydroxide minerals plus various mixtures of silica (SiO<sub>2</sub>), iron oxide (Fe<sub>2</sub>O<sub>3</sub>), titania (TiO<sub>2</sub>), aluminosilicates (clay, etc.), and other impurities in trace amounts.

India currently imports 60% of its Calcined Bauxite from China. Spurred by expansion of domestic steel production, a scarcity of acceptable quality of bauxite from China and raising import cost, drives are now under way in India to produce high grade baux-

PROJECT COST ESTIMATE CAPACITY	
Calcined Bauxite	: 40 MT/Day
Plant & Machinery	: ₹ 219 Lakhs
Cost of Project	: ₹ 766 Lakhs
Rate of Return	: 26%
Break Even Point	: 56%

ite from domestic bauxite sources. Global Calcined Bauxite Market was valued at \$16,680 million in 2016, and is expected to reach \$29,648 million by 2023. Thus, due to demand it is best to invest in this project.

## Pan Masala

Pan Masala is a balanced mixture of betel leaf with lime, areca nut, clove, cardamom, mint, tobacco, essence and other ingredients. It is an agricultural product with herbal properties, also available in hygienic pack and pouches. The ingredients in pan masala vary widely, depending on personal taste and region. Fennel seeds are often key ingredients, since they tend to leave the mouth with a fresh feeling, and it is also possible to find cinnamon, cardamom, lime, menthol, areca nuts, betel nuts, and various other ingredients.

India tops the list of smokeless tobacco users in the world with nearly 83 per cent consumers. Indians are so addicted to flavoured tobacco — pan masala and gutkha to be precise — that despite the ban on its manufacture and sale in 11 states so far, consumers are still getting hold of their daily fix, courtesy contraband sales.

PROJECT COST ESTIMATE CAPACITY	
Sada Pan Masala	: 165 Kgs /Day
Meetha Pan Masala	: 165 Kgs /Day
Zarda Pan Masala	: 170 Kgs /Day
Plant & Machinery	: ₹ 12 Lakhs
Cost of Project	: ₹ 191 Lakhs
Rate of Return	: 27%
Break Even Point	: 54%

## High Temperature Aluminium Based Paint

Heat Resistant Aluminum Paint. 600°C. These paints can resist heat, flames, grease, rust and smoke, which make them ideal

for specific applications. Paint is prepared by mixing a particular binder or binder combination, solvent or solvent blend, additives and, perhaps, pigment or group of pigments together in an exact way to produce a specific formulation that, when cured, will possess certain properties.

**PROJECT COST ESTIMATE CAPACITY**

High Temperature	: 200 Kg/Day
Aluminium Based Paint	
Plant & Machinery	: ₹ 8 Lakhs
Cost of Project	: ₹ 52 Lakhs
Rate of Return	: 28%
Break Even Point	: 66%

Global demand for paint and coatings is forecast to rise 3.7 percent per year to 54.7 million metric tons in 2020, valued at \$193 billion. The market has observed a surge in demand for High Temperature Coatings from the

automotive industry for its usage in vehicle protection and is a crucial driver of the market. High Temperature Coatings are extensively used cookware, stoves & grills, bakeware as it provides excellent resistance against heat. Which facilitates the development of new technologies and ensure a high quality product.

**Dehydrated Fruits**

Dehydration is a process by which shelf life of the fruits can be extended by evaporating water while preserving the taste. Dehydrated products can be used during off season and the fresh produce of far off places can be saved from decomposition due to severe weather conditions and inefficient transport facilities. It is one of the oldest methods of preserving fruit is removes moisture stops the growth of bacteria, yeasts & molds that normally spoil fruit.

The Indian dried fruits industry size is currently pegged at Rs 15,000 crore (4,50,000 tons approx.). By 2020, this is likely to reach almost a million tonnes in volume, leading to an industry size exceeding Rs 30,000 crore. As a whole any entrepreneur can venture in this project without risk and earn profit.

**PROJECT COST ESTIMATE CAPACITY**

Dehydrated Fruits	: 400 Kgs./Day
Plant & Machinery	: ₹ 1084 Lakhs
Cost of Project	: ₹ 1425 Lakhs
Rate of Return	: 26%
Break Even Point	: 45%

**Magnesium Sulphate (Fertiliser Grade)**

Magnesium Sulphate is commercially available as heptahydrate, monohydrate, anhydrous or dried form containing the equivalent of 2-3 waters of hydration. Magnesium Sulphate occurs naturally in seawater, mineral springs and in minerals such as kieserite and epsomite. Magnesium Sulphate is used as fertiliser for supplying trace amounts of magnesium and Sulphate to the plant. Magnesium Sulphate of fertiliser grade manufactured by using magnesium ores.

**PROJECT COST ESTIMATE CAPACITY**

Magnesium Sulphate (Fertiliser Grade)	: 24 MT/Day
Plant & Machinery	: ₹ 147 Lakhs
Cost of Project	: ₹ 434 Lakhs
Rate of Return	: 28%
Break Even Point	: 56%

The fertilizers market in India is expected to reach a market value of USD XX in 2022 from USD 27.1 billion in 2016, growing at a CAGR

of XX%. Global Magnesium Sulphate Market has very wide market in 21st century and it has been valued as \$ 10,731.05 million by 2027 with a CAGR of 4.28%. This facilitates the development of new technologies and ensures a high quality product.

**Caffeine from Tea Waste**

Caffeine belongs to a family of naturally occurring compounds known as xanthines. The xanthines, which come from plants, are possibly the oldest known stimulants. Caffeine is widely used in pharmaceuticals as free base and mixtures, such as 'Citrate Caffeine's caffeine and sodium benzoate. Caffeine is very much used as a stimulant of the central nervous system and also as a diuretic, although its action as a diuretic is weaker than that of the ophylone.

There is about 10% demand growth increase per annum. Up to 400 milligrams (mg) of caffeine a day appears to be safe for most healthy adults. That's roughly the amount of caffeine in four cups of brewed coffee, 10 cans of cola or two "energy shot" drinks. The global caffeine market is predicted to expand at a steady CAGR of around 2.5% by 2022. Entrepreneurs who invest in this project will be successful.

**PROJECT COST ESTIMATE CAPACITY**

Caffeine	: 20 MT/Day
Plant & Machinery	: ₹ 350 Lakhs
Cost of Project	: ₹ 2268 Lakhs
Rate of Return	: 30%
Break Even Point	: 61%

**Chilli Oleoresin**

Paprika oleoresin is a natural food colorant used to obtain a deep red colour in any food that has a liquid/fat phase. The oleoresin is slightly viscous, homogenous red liquid with good flow properties at room temperature. Among the various market types of chilli, paprika type is being presently grown in very limited scale in restricted areas in India

The global chilli oleoresin market is expected to reach USD 695.1 million by 2024.

India controls 60% of the 13,500-tonne global spice oleoresins market even as China has emerged as a strong contender in paprika oleoresin, the most in-demand spice oil. As a whole any entrepreneur can venture in this project without risk and earn profit.

**PROJECT COST ESTIMATE CAPACITY**

Chilli Oleoresin	: 250 Kgs./Day
Plant & Machinery	: ₹ 75 Lakhs
Cost of Project	: ₹ 237 Lakhs
Rate of Return	: 27%
Break Even Point	: 60%

**Workwear, Uniform Clothing for factory (Thousers & High Visibility Long Sleeves Jackets)**

Workwear is clothing worn for work, especially work that involves manual labour. Often those employed within trade industries elect to be outfitted in workwear because it is built to provide durability and safety. Garments of simple and typically very durable construction usually in poly/cotton fabrics, including boiler suits and coveralls, bib and brace, coats, jackets and trousers, as well as a wide variety of similar styles used in the catering and wholesale/distribution sectors.

**PROJECT COST ESTIMATE CAPACITY**

Trousers	: 3000 Pcs/Day
High-Visibility Long Sleeve Jackets	: 1000 Pcs/Day
Plant & Machinery	: ₹ 136 Lakhs
Cost of Project	: ₹ 1271 Lakhs
Rate of Return	: 29%
Break Even Point	: 67%

Indian consumer durables market is broadly segre-



gated into urban and rural markets, and is attracting marketers from across the world. Per capita GDP of India is expected to reach US\$ 3,273.85 in 2023 from US\$ 1,983 in 2012. The global Workwear/Uniforms (Uniforms & Workweares) market is valued at 56700 million US\$ in 2017 and will reach 79000 million US\$ by the end of 2025, growing at a CAGR of 4.2% during 2018-2025. Thus, due to demand it is best to invest in this project.

## Liquid Urea-Formaldehyde Resin for Wood Application

Urea-formaldehyde resin is a major commercial adhesive, especially within the forest products industry. It offers a number of advantages when compared with other adhesive systems. Urea-formaldehyde resins are the most prominent examples of the class of thermosetting resins usually referred to as amino resins. The use of urea-formaldehyde resins as a major adhesive by the forest products industry is due to a number of advantages, including low cost, ease of use under a wide variety of curing conditions etc.

PROJECT COST ESTIMATE CAPACITY	
Liquid Urea-Formaldehyde Resin	: 8 MT/Day
Plant & Machinery	: ₹ 71 Lakhs
Cost of Project	: ₹ 209 Lakhs
Rate of Return	: 29%
Break Even Point	: 79%

The urea-formaldehyde market is expected to register a CAGR of 6.9% between 2018 and 2023. The market is expected to be augmented by growing demand for resins in the automotive.

Furthermore, the increase in demand for UF resins is further propelled by the long shelf life and less maintenance costs. This facilitates the development of new technologies and ensures a high quality product.

## Undergarments (Men and Women)

Undergarments or underwear are clothes worn under other clothes, often next to the skin. They keep outer garments from being soiled by bodily secretions and discharges, shape the body, and provide support for parts of it. In cold weather, long underwear sometimes is worn to provide additional warmth.

The Indian apparel sector is expected to grow from 1,709 billion in 2010 to 4,700 billion by 2020E, representing a CAGR of 10.6%. Of this, the innerwear market currently valued at ~14,300 crore (in 2011) is expected to grow to 43,700 crore by 2020E, growing at a CAGR of 13.2%, outpacing the growth of the overall apparel market. As a whole any entrepreneur can venture in this project without risk and earn profit.

PROJECT COST ESTIMATE CAPACITY	
Regular Silk & Cotton Panties	: 1000 Pcs/Day
Bikini Sets	: 1000 Pcs/Day
Brasseries (Wired)	: 1000 Pcs/Day
Brasseries (Non Wired)	: 1000 Pcs/Day
Briefs Men's	: 1000 Pcs/Day
Baniyan Men's	: 1000 Pcs/Day
Plant & Machinery	: ₹ 165 Lakhs
Cost of Project	: ₹ 462 Lakhs
Rate of Return	: 27%
Break Even Point	: 61%

## Aluminium Recycling Plant

Aluminium is 100% recyclable and experiences no loss of properties or quality during the recycling process. Recycling aluminium also uses only 5% of the energy used to create new aluminium and emits only

5% of the greenhouse gases.

Aluminium accounts for 30% of India's overall aluminium consumption of 3.3 million tonnes per year. In the past six years, secondary aluminium demand has almost doubled to 1.1 million tonnes, of which some 90% is imported. By 2021, demand is expected to reach 1.5 million tonnes. Ingots are very large casting products, greater in size and shape than blooms, billets and slabs. Entrepreneurs who invest in this project will be successful.

PROJECT COST ESTIMATE CAPACITY	
Aluminium Ingots	: 12 MT/Day
Plant & Machinery	: ₹ 115 Lakhs
Cost of Project	: ₹ 819 Lakhs
Rate of Return	: 28%
Break Even Point	: 46%

## Herbal Products

(Amla, Triphala, and Tooth Powder) Herbal Pellet (Tablet) Herbal Oil (Hair Oil and Skin Oil)

Herbal products are medicines derived from plants. They are used as supplements to improve health and wellbeing, and may be used for other therapeutic purposes. Herbal products are available as tablets, capsules, powders, extracts, teas and so on. Herbal medicines are thought to be safe as it is natural, but in fact it can cause serious adverse effects and interaction with other drugs and supplements. An herb is a plant or plant part used for its scent, flavor, or therapeutic properties.

### PROJECT COST ESTIMATE CAPACITY

Amla Powder (200 gms Per Pack)	: 1000 Packs/Day
Triphala Powder (200 gms Per Pack)	: 1000 Packs/Day
Tooth Powder (50 gms Per Pack)	: 4000 Packs/Day
Tablets (50 Nos Per Pack)	: 2000 Packs/Day
Hair Oil (200 ml Per Pack)	: 500 Packs/Day
Skin Oil (200 ml per Pack)	: 500 Packs/Day
Plant & Machinery	: ₹ 28 Lakhs
Cost of Project	: ₹ 295 Lakhs
Rate of Return	: 31%
Break Even Point	: 56%

Indian consumers are increasingly transitioning towards herbal and natural offerings, especially in analgesics, cold, cough and allergy (hay fever) remedies and dermatological. The demand for plant based medicines, health products, pharmaceuticals, food supplement, cosmetics etc are increasing in both developing and developed countries, due to the growing recognition that the natural products are non-toxic, have less side effects and easily available at affordable prices. This facilitates the development of new technologies and ensures a high quality product.

## Poultry and Broiler Farming

Poultry farming is the raising of domesticated birds such as chickens, turkeys, ducks, and geese, for the purpose of farming meat or eggs for food. Poultry are farmed in great numbers with chickens being the most numerous. Poultry meat is an important source of high quality proteins, minerals and vitamins to balance the human diet. Specially developed varieties of chicken (broilers) are now available with the traits of quick growth and high feed conversion efficiency.

Indian poultry sector has been growing at around

8-10% annually over the last decade with broiler meat volumes growing at more than 10% while table egg at 5-6% driven by increased domestic consumption. The production capacity has responded with increased integration and large scale implementation of contract poultry farming. Thus, due to demand it is best to invest in this project.

PROJECT COST ESTIMATE CAPACITY	
Layers	: 300 Nos./Day
Broilers	: 300 Nos./Day
Eggs Tray (100 Eggs/Tray)	: 600 Nos./Day
Plant & Machinery	: ₹ 86 Lakhs
Cost of Project	: ₹ 376 Lakhs
Rate of Return	: 27%
Break Even Point	: 49%

casein and vegetable oil/fat blend taking help of emulsifying salts and rennet casein and speciality fat. As a whole you can invest in this project without risk and earn profit.

### Adult Pull-up Diapers

Diapers are primarily worn by children who are not yet potty trained or experience bedwetting. However, they can also be used by adults with incontinence or in certain circumstances where access to a toilet is unavailable. A disposable diaper may also include an inner fabric designed to hold moisture against the skin for a brief period before absorption to alert a toilet training or bedwetting user that they have urinated.

An adult diaper is a diaper made to be worn by a person with a body larger than that of an infant or toddler. Diapers can be necessary for adults with various conditions, such as incontinence, mobility impairment, severe diarrhea or dementia.

Disposable diapers market would garner substantial market share of about 63% of the estimated global market by 2020. According to "India Diaper Market Outlook, 2021", India's diaper market was growing with a CAGR of 22.23% over past five years. On the basis of age, the report categorizes the India diaper market into baby diapers and adult diapers. Baby diapers constitute the leading category in the market. Which facilitates the development of new technologies and ensure a high quality product.

### Automobile Hoses

Hose design is based on a combination of application and performance. Common factors are size, pressure rating, weight, length, straight hose or coil hose, and chemical compatibility. Hoses are made from one or a combination of many different materials. Applications mostly use nylon, polyurethane, polyethylene, PVC, or synthetic or natural rubbers, based on the environment and pressure rating needed. In recent years, hoses can also be manufactured from special grades of polyethylene (LDPE and especially LLDPE).

India is also a prominent auto exporter and has strong export growth expectations for the near future. Government of India and the major automobile players in the

Indian market are expected to make India a leader in the 2W and Four Wheeler (4W) market in the world by 2020. The Indian automotive aftermarket is estimated to grow at around 10-15 per cent to reach US\$ 16.5 billion by 2021 from around US\$ 7 billion in 2016. It has the

potential to generate up to US\$ 300 billion in annual revenue by 2026. As a whole there is a good scope for new entrepreneur to invest in this business.

#### PROJECT COST ESTIMATE CAPACITY

Automobile Hoses	: 4000 Nos./Day
Plant & Machinery	: ₹ 47 Lakhs
Cost of Project	: ₹ 185 Lakhs
Rate of Return	: 28%
Break Even Point	: 70%

#### PROJECT COST ESTIMATE CAPACITY

Adult Pull-up Diapers (Big Size) 10 Pcs/Pkts	: 6000 Pkts/Day
Adult Pull-up Diapers (Big Size) 4 Pcs/Pkts	: 15000 Pkts/Day
Adult Pull-up Diapers (Small Size) 10 Pcs/Pkts	: 6000 Pkts/Day
Adult Pull-up Diapers (Small Size) 4 Pcs/Pkts	: 15000 Pkts/Day
Plant & Machinery	: ₹ 2123 Lakhs
Cost of Project	: ₹ 2787 Lakhs
Rate of Return	: 54%
Break Even Point	: 32%

### Cheese Analogues

Cheese analogues (more widely known as cheese alternatives) are products used as culinary replacements for cheese. These include vegan cheeses as well as some dairy products, such as processed cheese or Kraft Singles that do not qualify as true cheeses. Cheese analogues used especially for pizza are produced by using rennet casein, acid casein, vegetable oil mixtures and other functional additive substances. A typical MCA formulation is determined as casein and caseinates 18-24%, vegetable oil 22-28%, starch 0-3%, ES 0.5-2, sweeteners and flavorants 0.5-3%, stabilizer 0-0.5%, acidifiers 0.2-0.36%, colourants 0.04%, preservatives 0.10% and water content 45-55%.

Cheese Analogues market is currently experiencing a growth in demand due to need of reduction in prices of cheese production. Cheese analogues are produced with the help of different types of methods and production techniques. Cheese analogue's produced with the help of individual constituent, soya oil and casein etc. are cheaper alternatives for milk dry matter. In India, a successful attempt has been made in developing MCA based on acid

#### PROJECT COST ESTIMATE CAPACITY

Analogues Cheese	: 1000 Kgs./Day
Plant & Machinery	: ₹ 36 Lakhs
Cost of Project	: ₹ 126 Lakhs
Rate of Return	: 26%
Break Even Point	: 62%

### Pearl Caustic Soda

Caustic soda (sodium hydroxide or NaOH) is most commonly manufactured by the electrolysis of a sodium chloride (NaCl) solution. Manufacture caustic soda using either membrane or diaphragm electrolytic cells. NaOH, also known as lye and caustic soda, is a caustic metallic base. Pure sodium hydroxide is a white solid available in pellets, flakes, granules, and as a 50% saturated solution.

The chemical industry in the country has not received its fair share of development due mainly to the fact that establishing an industry in this sub-sector of the economy is relatively capital intensive. In this brief write-up the need, technical feasibility and profitability of establishing a small plant to produce 10,000 metric tonnes of caustic soda per annum are looked into with a view to sensitizing entrepreneurs on the immense reward of venturing

#### PROJECT COST ESTIMATE CAPACITY

Pearl Caustic Soda	: 100 MT/Day
Chlorine (by product)	: 85 MT/Day
Plant & Machinery	: ₹ 2113 Lakhs
Cost of Project	: ₹ 3815 Lakhs
Rate of Return	: 28%
Break Even Point	: 70%



into this hardly exploited goldmine. The local market demand for this product is enormous and will certainly grow with the increase in both economic and industrial activities in the years to come. Entrepreneurs who invest in this project will be successful.

**Electric Motors**

An electric motor is a device converting electrical energy into mechanical energy (usually a torque). This conversion is usually obtained through the generation of a magnetic field by means of a current flowing into one or more coils.

An electric motor turns because of magnetic force exerted between a stationary electromagnet called the stator and a rotating electromagnet called the rotor. Different types of electric motors are distinguished by how electric current is supplied to the moving rotor.

Tremendous technological advancements and the need for high efficiency motors are the two factors responsible for the growth of electric motors market in the past few years. Electric motors are widely used in motor vehicles, household appliances, material handling equipment, etc. An unmitigated increase in fuel prices coupled with the need to reduce air pollution has led to an increased preference for electric vehicles in several countries. This, in turn, is expected to upsurge the electric motor market. Premium efficiency motors are expected to gain traction in near future as they are low maintenance, consume low power and have many other unique features as well.

Based on type, the AC electric motors are smaller, cheaper and light in weight and are widely used in HVAC equipment. Hence, AC electric motors will dominate the electrical motor market. Thus, due to demand it is a good project for entrepreneurs to invest.

PROJECT COST ESTIMATE CAPACITY	
Electric Motors	: 60,000 Nos/Annum
Plant & Machinery	: ₹ 60 Lakhs
Cost of Project	: ₹ 313 Lakhs
Rate of Return	: 29%
Break Even Point	: 64%

tic recycling market has been gaining a steady momentum over the past few years due to the growing awareness about carbon emissions and the need to reduce them. Citing this reason, the report states that the global plastic recycling market, which was valued at US\$31.5 bn in 2015 is expected to reach a figure of US\$56.8 bn by 2024. During the forecast period of 2016 and 2024, the global market is expected to progress at a CAGR of 6.9%. As a whole any entrepreneur can venture in this project without risk and earn profit.

**Microbrewery**

The global craft beer market to grow at a CAGR of 11.04% during the period 2017-2021. A microbrewery or craft brewery is a brewery that produces small amounts of beer (or sometimes root beer), typically much smaller than large-scale corporate breweries, and is independently owned. Such breweries are generally characterized by their emphasis on quality, flavour and brewing technique.

Craft beers and microbreweries are niche concepts in India which have been growing for past few years and are beginning to take shape now. They are mushrooming in many parts of the country. This is an emerging trend that is certainly attracting middle class Indians, particularly in urban areas. The craft beer market in India is pegged at Rs. 280 crore and may grow to Rs. 4,400 crore by 2020. This facilitates the development of new technologies and ensures a high quality product.

PROJECT COST ESTIMATE CAPACITY	
Microbrewery (650 ml Size Bottle)	: 1538 Nos./Day
Plant & Machinery	: ₹ 170 Lakhs
Cost of Project	: ₹ 396 Lakhs
Rate of Return	: 12%
Break Even Point	: 59%

**Plastic Waste Recycling Plant**

Plastics are made from limited resources such as petroleum, and huge advances are being made in the development of technologies to recycle plastic waste among other resources. Mechanical recycling methods to make plastic products and feedstock recycling methods that use plastic as a raw material in the chemical industry have been widely adopted, and awareness has also grown recently of the importance of Thermal recycling as a means of using plastics as an energy source to conserve petroleum resources. Recycling plastics has many benefits, it contributes to energy savings and the reduction of greenhouse gas emissions. It also saves non-renewable sources like oil and gas. Bottles made of polyethylene terephthalate (PET, sometimes PETE) can be "recycled" to reuse the material out of which they are made and to reduce the amount of waste going into landfills.

The Indian industry has created enough capacity to export polymers in substantial quantities. India exported close to 17% of its polymer production. The global plas-

PROJECT COST ESTIMATE CAPACITY	
Plastic Granules	: 2400 Kgs/Day
PET Granules	: 2400 Kgs/Day
Plant & Machinery	: ₹ 97 Lakhs
Cost of Project	: ₹ 238 Lakhs
Rate of Return	: 27%
Break Even Point	: 55%

**Plastic Waste Pyrolysis (Plastic to Oil Conversion)**

Pyrolysis is the chemical decomposition of organic substances by heating the word is originally coined from the Greek-derived elements pyro "fire" and lysis "decomposition". Pyrolysis is usually the first chemical reaction that occurs in the burning of many solid organic fuels, cloth, like wood, and paper, and also of some kinds of plastic. Anhydrous Pyrolysis process can also be used to produce liquid fuel similar to diesel from plastic waste.

Increasing industrialization and motorization has led to a significant rise in demand of petroleum products. As these are the non-renewable resources it is difficult to predict availability of these resources in future, resulting uncertainty in its supply and price and is impacting growing economies like India. Many alternate fuels like Alcohols, Biodiesel, LPG, CNG etc have been already commercialized in the transport sector. Recent developments in recycled plastic and plastic waste to oil market indicate that policymakers and energy industry players in various regions, particularly in North America and Europe, are focusing on the commercialization of the technology. As a whole entrepreneur can venture in this field will be successful.

PROJECT COST ESTIMATE CAPACITY	
Pyrolysis Oil	: 10 MT/Day
Carbon (by product)	: 3.33 MT/Day
Gas (by product)	: 2 MT/Day
Plant & Machinery	: ₹ 197 Lakhs
Cost of Project	: ₹ 512 Lakhs
Rate of Return	: 26%
Break Even Point	: 58%

## Iodised Salt

Iodised salt is produced by iodising common salt. Iodine plays an important role in our body-system, as it is utilised by the thyroid gland for the synthesis of thyroxine, which is a hormone essential for the growth and developmental activities. Deficiency of Iodine in the body results in the impairment of synthesis of thyroxine, leading to reduced blood circulating levels. The only iodising agent so far approved for table salt is potassium iodide. It is present at a concentration of (0.01%).

### PROJECT COST ESTIMATE CAPACITY

Iodised Salt	: 15 MT/Day
Plant & Machinery	: ₹ 750 Lakhs
Cost of Project	: ₹ 1273 Lakhs
Rate of Return	: 19%
Break Even Point	: 52%

The demand of Iodised salt is more than 60 lakh tonnes per year as per the Ministry of Health Survey. To meet this requirement, more production capacities are required. Further due to many parts of our country are deficient in Iodine, Ministry of Industry has started crash programme

to Iodise the common salt to check the problem of goitre; deafness, physical deforming and mental retardation. Salt penetration at all India level is estimated to be 93.8%, comprising 96.8% in urban areas, 92.7% in rural areas. Thus, due to demand it is best to invest in this project.

## Glass Sheet

Glass is a transparent material, particularly in the visible region of electromagnetic spectrum. The transparent and colouration have made the glasses best suitable for decorative and illumination purposes in the early days of their invention. Glass is a non-crystalline solid. This means that the regular periodic arrangement of motifs (groups of atoms, molecules or ions) is absent in glasses. The crystalline characteristic of long-range order of motifs is lacked and short-range order prevails in glassy materials. Glasses are formed by quenching a material in liquid state sufficiently fast so that atoms cannot rearrange themselves in a crystalline form and form glasses.

Glass sheets and plate glass can be clear or transparent, or treated with other elements to give an opalescent or iridescent quality. Which facilitates the development of new technologies and ensure a high quality product. Resistant glass is made by using layers of glass sheets or by using a transparent polycarbonate thermoplastic. Dichroic glass is glass that has been layered with metal oxides to give the glass a unique color and texture. Tempered glass is stronger and more durable than regular glass sheets and plate glass. It is used in a wide variety of products, including vehicle windows and specialty items like scuba diving equipment, marine vehicles, and some cookware. Tempered glass is made by heating and then rapidly cooling the glass to induce residual compressive stresses in the surface of the glass.

### PROJECT COST ESTIMATE CAPACITY

Glass Sheet Thickness of Sheet 6 mm	: 53550 MT./Annum
Plant & Machinery	: ₹ 111 Crore
Cost of Project	: ₹ 139 Crore
Rate of Return	: 26%
Break Even Point	: 46%

## Coconut Oil from Copra

Copra is the dried flesh of coconuts.

Copra is the richest source of edible oil. On dry weight basis, copra contains 65-70

per cent oil. Coconut oil finds extensive use in the food industry due to its specific properties such as low melting point, resistance to oxidative rancidity, pleasing flavour and easy digestibility. Coconut oil is preferred as a source of fat in the preparations of infant milk powder, ice cream, confectionery and bakery products.

India's consumption is growing annually at 5% p.a. Within the industry, 40% of oils & fats are sold in packaged form and this segment is growing at 20-25% p.a. With this pace, the industry will get 75-80% packaged by 2018. The worldwide market for Coconut Oil is expected to grow at a CAGR of roughly 4.5% over the next five years, will reach 4900 million US\$ in 2023, from 3760 million US\$ in 2017. This facilitates the development of new technologies and ensures a high quality product.

### PROJECT COST ESTIMATE CAPACITY

Coconut Oil	: 9 MT/Day
Coconut Deoiled Cake by product	: 6 MT/Day
Plant & Machinery	: ₹ 127 Lakhs
Cost of Project	: ₹ 448 Lakhs
Rate of Return	: 28%
Break Even Point	: 63%

## WPC Profile For Building Materials Like Door and Window Frame and Shutters

WPCs are composites containing a wood component in particle form (wood particles/wood

flour) and a polymer matrix. They are used in a variety of structural and non-structural applications ranging from component and product prototyping to outdoor decking. Wood plastic composites (WPCs) are roughly 50:50 mixtures of thermoplastic polymers and small wood particles. The wood and thermoplastics are usually compounded above the melting temperature of the thermoplastic polymers and then further processed to make various WPC products.

The wood-plastic composites market is projected to reach US\$ 2.6 bn in 2012. Analysts anticipate the market to expand at a CAGR of 10.80% during the period from 2013 to 2019 and attain a value USD 5.84 Billion by 2021, at a CAGR of 12.4% from 2016 to 2021. Market is poised to grow at a CAGR of around 13.2% over the next decade to reach approximately \$9.7 billion by 2025. This facilitates the development of new technologies and ensures a high quality product.

### PROJECT COST ESTIMATE CAPACITY

WPC Profile for Building Materials	: 9600 Kgs/Day
Plant & Machinery	: ₹ 155 Lakhs
Cost of Project	: ₹ 737 Lakhs
Rate of Return	: 28%
Break Even Point	: 64%

## Kraft Paper Core Pipe Used in Paper Mills for Paper Reel

Paper cores are strong cardboard tubes or cylinders which are used in fabric, adhesive, electrical, paper product and converting industries as a sturdy base around which to wind materials for storage or distribution. Depending on the intended use of the



tubes, paper cores can be made from heavy-duty thick cardboard for industries such as fabric and electrical, whereas for toilet paper or paper towels, the cores can be made from thinner, less durable cardboard or paper.

Paper core market depends on packaging industry. It is used in many industries for winding a rewinding the product, such as aluminium foil packaging, polyester film, kraft paper, duplex paper, textiles and many more. It is projected to grow at a CAGR of 4.2% from 2015 to 2020. So paper core demand directly depends upon the demand of above listed products. Entrepreneurs who invest in this project will be successful.

**PROJECT COST ESTIMATE CAPACITY**

<b>Kraft Paper Core Pipe</b>	<b>: 12MT/Day</b>
<b>Plant &amp; Machinery</b>	<b>: ₹ 49 Lakhs</b>
<b>Cost of Project</b>	<b>: ₹ 303 Lakhs</b>
<b>Rate of Return</b>	<b>: 30%</b>
<b>Break Even Point</b>	<b>: 64%</b>

sis of product type and applications. There are various types of cylinder valves which include hand wheel valves, quick-on valves, forklift valves, safety valves, self-closing valves, and cut-off push & turn valves. The LPG cylinders are utilized in various household, outdoors, and other applications. Entrepreneurs who invest in this project will be successful.

**PROJECT COST ESTIMATE CAPACITY**

<b>LPG Cylinders (14.20 Kgs Size)</b>	<b>: 1000 Nos./Day</b>
<b>LPG Cylinders (19 Kgs Size)</b>	<b>: 1000 Nos./Day</b>
<b>Plant &amp; Machinery</b>	<b>: ₹ 471 Lakhs</b>
<b>Cost of Project</b>	<b>: ₹ 1113 Lakhs</b>
<b>Rate of Return</b>	<b>: 30%</b>
<b>Break Even Point</b>	<b>: 56%</b>

**Baby & Adult Diaper and Sanitary Pads**

**M**odern disposable baby diapers and incontinence products have a layered construction, which allows the transfer and distribution of urine to an absorbent core structure where it is locked in. Adult diapers are thin, narrow in the center and wider at the ends and are therefore less evident under regular clothing. Their simple design gives them a fair amount of custom fit and is made out of multi-layered absorbent material. The Sanitary napkin industry is closely connected with the mode of life, which is in turn directly correlated to housing. Accordingly this industry has always grown by keeping space with improvement in living and it is new indispensable for sanitary in modern housing.

**PROJECT COST ESTIMATE CAPACITY**

<b>Baby Diapers (4 Pcs.)</b>	<b>: 84000 Pkts./Day</b>
<b>Adult Diapers (4 Pcs.)</b>	<b>: 18000 Pkts./Day</b>
<b>Sanitary Pads (8 Pcs.)</b>	<b>: 48000 Pkts./Day</b>
<b>Plant &amp; Machinery</b>	<b>: ₹ 2167 Lakhs</b>
<b>Cost of Project</b>	<b>: ₹ 4597 Lakhs</b>
<b>Rate of Return</b>	<b>: 32%</b>
<b>Break Even Point</b>	<b>: 42%</b>

Baby Diaper market is expected to reach around INR 200 Billion by 2022, growing at a double digit CAGR over the forecasted period 2017-2022. The adult diapers market in India started at a low development level, it has grown rapidly. The Indian sanitary napkin market reached a value of nearly US\$ 414 Million in 2016, the market is expected to reach a value of around US\$ 596 Million by 2022, growing at a CAGR of more than 6% during 2017-2022. As a whole any entrepreneur can venture in this project without risk and earn profit.

**LPG Cylinders**

**L**iquefied petroleum gas (LPG) is a term describing a group of hydrocarbon-based gases derived from crude oil and or natural gas. LPG Cylinder is an essential item for filling liquefied petroleum gas used for cooling purpose. The body of LPG cylinder is deep drawn in two pieces then these are welded together to make a compact unit without any leak and defect etc. LPG cylinders are in use in 5 Kg., 12 Kg., 14.2 Kg. & 19 Kg. capacities.

The LPG cylinder market is segmented on the ba-

**Tea Blending and Packaging**

**T**he tea-plant, in its natural state, grows into a small or medium-sized tree, but in commercial plantations it is pruned and trained to form a many-branched low bush and is encouraged to produce vigorous vegetative growth by adopting an appropriate schedule of fertilizer applications. Blending is the process of mixing of high grade different type of teas.

Tea is the world's and India's beverage of choice, after water. The organised branded tea segment was at about Rs 12,970 crore in 2017, up from Rs 12,240 crore in 2016, according to market research firm Euromonitor International. India is the world's second largest producer of tea, after China. In 2017-18, it recorded the highest production, at 1,325 million kg, 6% higher than the previous year. Exports grew at more than twice that rate to hit 257 million kg. The market is expected to grow annually by 6.5% (CAGR 2018-2021). This facilitates the development of new technologies and ensures a high quality product.

**PROJECT COST ESTIMATE CAPACITY**

<b>Fermented &amp; PF Tea</b>	<b>: 1000 Kgs./Day</b>
<b>Fermented &amp; Green Tea</b>	<b>: 1000 Kgs./Day</b>
<b>Green &amp; PF Tea</b>	<b>: 1000 Kgs./Day</b>
<b>Brick &amp; PF Tea</b>	<b>: 1000 Kgs./Day</b>
<b>Plant &amp; Machinery</b>	<b>: ₹ 33 Lakhs</b>
<b>Cost of Project</b>	<b>: ₹ 215 Lakhs</b>
<b>Rate of Return</b>	<b>: 29%</b>
<b>Break Even Point</b>	<b>: 60%</b>

**Methyl Methacrylate (MMA)**

**M**ethyl methacrylate is key monomer for acrylic resins, coating materials, and polymers that meet the fast rising demand for light-guide panels in LCD assemblies. Methyl methacrylate, is known for its excellent transparency and weatherability, as well as its easy recyclability, this acrylic has attracted a great deal of attention for environmental considerations.

Methacrylate Monomers Market size was valued at USD 8.45 Billion in 2016 and is projected to reach USD 11.26 Billion by 2022, at a CAGR of 4.9% in terms of value. In this study, 2015 has been considered as the historic year, 2016 as the base year, and 2017 to 2022 as the forecast period for estimating the size of the methacrylate monomers market. As a whole any entrepreneur can venture in this project without risk and earn profit.

PROJECT COST ESTIMATE CAPACITY	
Methyl Methacrylate (MMA) :	2500 Ltrs./Day
Plant & Machinery :	₹ 238 Lakhs
Cost of Project :	₹ 616 Lakhs
Rate of Return :	27%
Break Even Point :	62%

## Zinc Chloride

Zinc Chloride (ZnCl<sub>2</sub>) is available as white, crystalline powder, odourless, moulded in pencils or porcelains like mass. Zinc chloride is the name of chemical compound ZnCl<sub>2</sub> or its hydrates. All zinc chlorides are colorless or white and highly soluble in water. Zinc chloride is used for crimping wool, cotton and silk. Zinc Chloride is used as catalyst or process material for miscellaneous purposes.

The zinc chloride market is pegged at approximately 270.9 Mn in 2018 and is projected to reach a value of US\$ 426.4 Mn by the end of 2028, expanding at a CAGR of 4.6% over the forecast period (2018 – 2028). Entrepreneurs who invest in this project will be successful.

PROJECT COST ESTIMATE CAPACITY	
Zinc Chloride from Zinc Ash :	9 MT/Day
Zinc Chloride from Zinc Oxide :	1 MT/Day
Plant & Machinery :	₹ 146 Lakhs
Cost of Project :	₹ 246 Lakhs
Rate of Return :	27%
Break Even Point :	65%

## Common Facility Centre for Jute

The Common Facility Centre for development and promotion of jute diversified products will generate self-employment opportunities for people and benefit the peoples in rural areas formed under various state, providing forward linkage with the market for value added products. Jute industry plays an important role in the development and promotion of jute & jute products, processes, marketing and commercialisation of technologies for the manufacture of all jute products including jute-diversified and jute

PROJECT COST ESTIMATE CAPACITY	
Dyed, Laminated & Printed Jute Fabrics :	20000 Meters/Day
Testing of Jute & Jute Products :	40 Nos./Day
Skilled Development Trainees :	3 Nos./Day
Plant & Machinery :	₹ 2252 Lakhs
Cost of Project :	₹ 4795 Lakhs
Rate of Return :	25%
Break Even Point :	49%

technical textiles products and creating awareness of the use of this natural fibre in non-conventional applications.

Jute Textile Industry is one of the major Industries in the Eastern India, particularly in West Bengal. Jute supports around 40 Lakh farm families and provides direct employment to 2.6 Lakh Industrial Workers and 1.4 Lakh in the tertiary sector. Jute industry contributes to the export earnings in the range of Rs. 1,000 to Rs.1, 200 crore annually. As a whole any entrepreneur can venture in this project without risk and earn profit.

## Dish Wash (Liquid & Soap Bar) and Detergent (Liquid Soap Bar and Powder)

Detergents are defined as complete washing or cleaning products, which contain among their ingredients an organic surface-active compound (Surfactant) that passes soil-removal properties. Frequently the term detergent is used synonymously with surfactant but common industry practice treats the surfactant as one component of a done here.

Detergent cake, detergent powder and liquid detergent are largely used in the domestic houses, commercial sectors, hotel industries, garment industries and in many other sections of the society. There is high price, medium price and low priced detergent available.

The detergent market in India is expected to have a growth rate of 7 % to 9 % per year in terms of volume. The detergent sector, with its increasing ability to influence consumers through advertisements, is rapidly expanding its market. Due to the increase in population, higher urbanization, spread of education and rising levels of income and consumption, the overall growth of the detergent market has been in double digits from last several years. There are different kinds of raw material used in the industries. There is large demand of this consumer item. Thus, as an entrepreneur this project offers an exciting opportunity to you.

PROJECT COST ESTIMATE CAPACITY	
Dishwash Liquid :	300,000 Kgs/Annum
Dishwash Soap Bar :	300,000 Kgs/Annum
Detergent Liquid :	300,000 Kgs/Annum
Detergent Soap Bar :	300,000 Kgs/Annum
Detergent Powder :	300,000 Kgs/Annum
Plant & Machinery :	₹ 32 Lakhs
Cost of Project :	₹ 204 Lakhs
Rate of Return :	27%
Break Even Point :	61%

## Cashew Cultivation

Commercial cultivation of cashew is taken up in eight states of our country mainly in west and eastern coast viz., Andhra Pradesh, Goa,

Karnataka, Kerala, Maharashtra, Orissa, Tamil Nadu and West Bengal. India is the third largest producer and exporter of cashew in the world next only to Vietnam and Nigeria. It is the second largest consumer of cashew and also the biggest processor with highest acreage under the crop. The current cashew production of the country accounts for 23.0% of the global production.

Cashew is a versatile, though paradoxical nut. Beginning as a poor man's crop, it ends up as the rich man's favourite snack-food all over the world. There is substantial potential to exploit cashew by-products, such as cashew butter from broken nuts, cashew nut shell liquid (CNSL) for industrial and medicinal purposes and the juice of the cashew apple that can be processed further.

**PROJECT COST ESTIMATE CAPACITY**

Cashew Nuts	: 77,400 Kgs/Annum
Cashew Apple By product	: 154,800 Kgs/Annum
Groundnut (Intercrop)	: 16,920 Kgs/Annum
Plant & Machinery	: ₹ 35 Lakhs
Cost of Project	: ₹ 185 Lakhs

Cashew is a good crop for smallholder farmers. India is the third largest consumer of cashew nuts in the world & India stands first in Cashew Nut Processing. India processes around 1.59 million tons of cashew nuts every year though it produces only around half of the quantity that it processes. Thus, as an entrepreneur this project offers an exciting opportunity to you.

**Puffed Rice (Muri)**

Puffed Rice is a commonly consumed commodity as a pastime snack. It can be used in combination with nuts such as groundnut or roasted and salted cashews; with fried gram; with Jaggery and coconut gratings, or dusted with salt and spices after enrobing with oil. Since the product is easily digested and assimilated, it finds a wide acceptance among a cross section of the households. It is a versatile product with an excellent market potential.

Today the snack food is one of the most important areas of the food industry. Designing snack foods today can be a complex process to meet changing consumers taste and expectations and elusive search for something unique that also appeals to a wide variety of people.

Puffed rice is an ingredient of bhelpuri, a popular Indian chaat (snack). It is offered to Hindu gods and goddesses in all poojas in the South Indian states of Kerala and Tamil Nadu. Pilgrims of Sabarimala often pack puffed rice in their Irumudikettu along with jaggery meant to be offered to Lord Ayyappan. Tamil saints say that Lord Ganesh loves pori, so it should be offered to him without fail. As a whole it is a good project for entrepreneurs to invest.

**PROJECT COST ESTIMATE CAPACITY**

Puffed Rice (Muri)	: 1200 MT/Annum
Plant & Machinery	: ₹ 6 Lakhs
Cost of Project	: ₹ 28 Lakhs
Rate of Return	: 29%
Break Even Point	: 74%

**Zinc Oxide from Zinc Dross**

Zinc oxide is an inorganic compound with the formula ZnO. ZnO is a white powder that is insoluble in water, and it is widely used as an additive in numerous materials and products including rubbers, plastics, ceramics, glass, cement etc. Zinc dross is obtained from the recovery of zinc. The zinc types may be recovered from galvanized sheets, batteries, car components, galvanizing processes, etc. The process for zinc oxide manufacture can be roughly divided into two types, the direct processes and the indirect processes. The direct methods use zinc ores as a source of zinc and the product is commonly referred to as American process. The indirect method use zinc metal as the raw materials and the product is known as French process.

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, paint, paper, cosmetic, crockery,

**PROJECT COST ESTIMATE CAPACITY**

Zinc Oxide	: 16 MT/Day
Plant & Machinery	: ₹ 351 Lakhs
Cost of Project	: ₹ 833 Lakhs
Rate of Return	: 29%
Break Even Point	: 59%

plastic, petroleum etc. The market size of zinc oxide in terms of value is projected to reach USD 4,184.5 million by 2020, and the global market size for zinc oxide is projected to register a CAGR of 6.0%

between 2015 to 2020. As a whole there is a good scope for new entrepreneur to invest in this business.

**Tempering and Toughening of Flat Glass**

Toughened glass is a type of soda-lime-silica glass with a sheet thickness 4-12 mm. The sheet has a central tensile stress of 500-1200 kg/cm<sup>2</sup> and a ratio of surface compressive stress to central tensile stress of 2:1 to 4:1. Toughened or tempered glass is a type of safety glass processed by controlled thermal or chemical treatments to increase its strength compared with normal glass. Tempered glass is made from normal annealed glass via a thermal tempering process in which the glass is subjected to heat till its softening point and then rapidly cooled. This increases the strength of the glass. A fully tempered glass is 4 to 5 times stronger than an annealed glass of similar thickness.

The total market of glass was valued at Rs. 60 bn with 80% supplied by domestic producers. The industry is growing at around 8% per annum. Consumption per capita of glass in India is only about 0.8 kg compared to 3.5 kg in China, 5.2 kg in Thailand, 12 kg in Malaysia and 2.5 kg in Indonesia. The total organised producers in the glass market have a turnover

**PROJECT COST ESTIMATE CAPACITY**

Tempered and Toughened Glass	: 1280 Sq.Mt./Day
Plant & Machinery	: ₹ 337 Lakhs
Cost of Project	: ₹ 767 Lakhs
Rate of Return	: 25%
Break Even Point	: 58%



estimated at over Rs. 40 bn, represented by a fairly large number of suppliers. The global market for flat glass is approximately 62 mn tonne (0.2 mn per day), the market is growing at 6% per annum. Europe, China and North America together account for estimated 70% of high quality float glass demand. As a whole there is a good scope for new entrepreneur to invest in this business.

### IV Cannula and Catheters

Intravenous cannulation is a technique in which a cannula is placed inside a vein to provide venous access. Venous access allows sampling of blood as well as administration of fluids, medications, parenteral nutrition, chemotherapy, and blood products. In simple terms, a cannula can surround the inner or outer surfaces of a trocar needle thus extending the effective needle length by at least half the length of the original needle. It is also called an intravenous (IV) cannula. Its size mainly ranges from 14 to 24 gauges. Different-sized cannulas have different colours as coded. I.V. Catheters are made out of special medical grade polyurethane which becomes very soft at body temperature ensuring patient comfort. Catheters thereby allow drainage or injection of fluids or access by surgical instruments. The process of inserting a catheter is catheterisation. In most uses a catheter is a thin, flexible tube: a "soft" catheter; in some uses, it is a larger, solid tube: a "hard" catheter.

The IV cannula market is estimated to grow at a CAGR of 6.2% from 2017 to 2022 to reach USD 13.63 Billion by 2022. The global peripheral intravenous catheter market is estimated to be valued at US\$ 3,663.7 Mn by the end of 2015, reaching a value of US\$ 5,224.7 Mn by the end of 2021 at a CAGR of 6.1%. The Indian domestic Medicare devices industry is expected to grow from Rs. 60 bn to Rs. 76.5 bn in four years. The overall market is estimated at Rs. 150 bn. A major part of the demand is met through imports. As a whole there is a good scope for new entrepreneur to invest in this business.

### School (CBSE Pattern)

A school is an institution designed to provide learning spaces and learning environments for the teaching of students under the direction of teachers. An institution where higher education is taught is commonly called a university college or university. The Gurukul system fostered a bond between the Guru & the Shishya and established a teacher centric system in which the pupil was subjected to a rigid discipline and was under certain obligations towards his teacher.

The country has more than 1.4 million schools with

over 227 million students enrolled and more than 36,000 higher education institutes. India has one of the largest higher education systems in the world. India has become the second largest market for e-learning after the US. The sector is currently pegged at US\$ 2-3 billion, and is expected to touch US\$ 40 billion by 2017. As a whole any entrepreneur can venture in this project without risk and earn profit.

### Biofertilizer (Granules)

Organic fertilizers do, indeed, have valuable properties as soil amendments. In particular, their humus content enhances the efficiency of mineral fertilizer, improves soil structure, increases water retention by soil, and decreases soil erosion. Organic substance which have a very low nitrogen content or a high C/N ratio, can given rise temporarily to nitrogen deficiency in plant and consequently reduce the yield. All the nutrient elements are present to some extent in soil or other natural materials in forms useful for the plants but, with the frequent exception of micro-nutrients such supply in generally not adequate for sustained aid economic production of crops.

The demand for fertilisers is divisible into three nutrients: nitrogen (N), phosphates (P2O5) and potash (K). Potash is used in the mineral form and is mainly imported for India's fertiliser requirements. Some plants produce only nitrogenous fertilisers, a few phosphatic and others mixed. The per hectare consumption of fertiliser nutrients increased from less than a kg in 1950-51 to over 113 kg in 2006-07. Even the latter is low when compared to global standards. Nutrient-wise, the installed capacity of the industry at the beginning of 2008 was composed of 12 mn TPA of nitrogen and over 5.7 mn tpa of phosphatic fertilisers. This facilitates the development of new technologies and ensures a high quality product.

### Yarn, Fabric & Garments Production Using Solar Charkha & Solar Looms

The charkha, a small, portable, hand-cranked wheel, is ideal for spinning cotton and other fine, short-staple fibres, though it can be used to spin other fibers as well. solar charkha has opened up a new approach to reverse this trend. The use of solar energy can usher in a new era of khadi spinning. Yarn from a solar charkha are stronger compared to the manually operated charkha. In fact yarns of desired strength could be achieved by proper

PROJECT COST ESTIMATE CAPACITY	
Biofertilizer (Granules)	: 6 MT/Day
Plant & Machinery	: ₹ 79 Lakhs
Cost of Project	: ₹ 245 Lakhs
Rate of Return	: 26%
Break Even Point	: 58%

PROJECT COST ESTIMATE CAPACITY	
I.V. Cannula	: 2000 Boxes/Day
I.V. Catheters	: 2000 Boxes/Day
Plant & Machinery	: ₹ 5919 Lakhs
Cost of Project	: ₹ 7703 Lakhs
Rate of Return	: 27%
Break Even Point	: 35%

PROJECT COST ESTIMATE CAPACITY	
School (CBSE Pattern)	: 8 Student Nos./Day
Plant & Machinery	: ₹ 63 Lakhs
Cost of Project	: ₹ 1261 Lakhs
Break Even Point	: 48%

PROJECT COST ESTIMATE CAPACITY	
Khadi Fabric	: 1000 Sq.Mtrs./Day
Garments	: 500 Pcs./Day
Plant & Machinery	: ₹ 211 Lakhs
Cost of Project	: ₹ 426 Lakhs
Rate of Return	: 23%
Break Even Point	: 80%

choice of the drive.

Ministry of Micro, Small and Medium Enterprises (MSME) have launched the Mission Solar Charkha for implementation of 50 Solar Charkha Clusters across the country with a budget of Rs 550 crore for the year 2018-19 and 2019-20. Which facilitates the development of new technologies and ensure a high quality product.

**Calcium & Zinc Stabilizers**

Calcium-based stabilisers (including Ca-Zn ones) are now largely used in wires and cables, in window and technical profiles and in any type of pipes as well as the corresponding fittings. Ca-Zn stabilisers are used as metallic soaps such as stearates. Calcium-based stabilisers have also been introduced in PVC rigid calendaring film production.

CaZn stabilizers already hold a larger market share than lead. They provide excellent electrical properties, very good color, outstanding heat stability, good heat aging properties, and are in some cases superior to lead. Market share is expected to reach USD 7 billion by 2024. Which facilitates the development of new technologies and ensure a high quality product.

PROJECT COST ESTIMATE CAPACITY	
Calcium Stabilizer	: 200 MT/Annum
Zinc Stabilizer	: 200 MT/Annum
Calcium-Zinc Stabilizer	: 200 MT/Annum
Plant & Machinery	: ₹ 38 Lakhs
Cost of Project	: ₹ 165 Lakhs
Rate of Return	: 29%
Break Even Point	: 62%

**Cyanoacetic Acid**

Cyanoacetic acid is an organic compound. It is a white, hygroscopic solid. The compound contains two functional groups, a nitrile and a carboxylic acid. It is a precursor to cyanoacrylates, components of adhesives.

The largest scale reaction is its esterification to give ethyl cyanoacrylate. Cyanoacetic acid is a versatile intermediate in the preparation of chemicals. It is a precursor to synthetic caffeine via the intermediacy of theophylline. It is a building block for many drugs, including dextromethorphan, amiloride, sulfadimethoxine, and allopurinol.

Synthesis of cyanoacetic acid by carbon dioxide and electro generated acetonitrile anion in undivided cells equipped with sacrificial anodes: The electrochemical synthesis of cyanoacetic acid was performed by cathodic reduction of tetra alkyl ammonium salts (R4NX) in acetonitrile in undivided cells equipped with sacrificial anodes with concomitant or subsequent addition of carbon dioxide. These syntheses avoid the use of dangerous reagents, yield cyanoacetic acid in moderate faradic yields and confirm that the cathodic reduction of tetra alkyl am-

PROJECT COST ESTIMATE CAPACITY	
Cyanoacetic Acid	: 2.4 MT/Day
Plant & Machinery	: ₹ 58 Lakhs
Cost of Project	: ₹ 268 Lakhs
Rate of Return	: 27.49%
Break Even Point	: 48.41%

monium salts in the presence of acetonitrile leads to the formation of the anion CNCH2-. As a whole it is a good project for entrepreneurs to invest.

**Non Woven Fabric**

Nonwoven fabrics are broadly defined as sheet or web structures bonded together by entangling fiber or filaments (and by perforating films) mechanically, thermally or chemically. Nonwoven fabrics are engineered fabrics that may be single-use, have a limited life, or be very durable. Nonwoven fabrics provide specific functions such as absorbency, liquid repellence, resilience, stretch, softness, strength etc. Nonwoven fabric is used alone or as components of apparel, home furnishings, health care, engineering, industrial and consumer goods.

Non-woven fabric market is expected to grow over the CAGR of around 8.2% during the period 2018 to 2023 engineered to provide particular properties for desired end uses with rapid increase in population. Today, India's nonwovens industry is developing under the spotlight, industry observers are closely looking at the Asian giant, and estimate it will become an important force of the global nonwovens industry in the near future. As a whole any entrepreneur can venture in this project without risk and earn profit.

PROJECT COST ESTIMATE CAPACITY	
<b>Non Woven Fabric</b>	
1.6 meter & 3.2 meter : 400000 Sq.Mtrs./Day width 100 gsm	
Plant & Machinery	: ₹ 701 Lakhs
Cost of Project	: ₹ 1943 Lakhs
Rate of Return	: 32%
Break Even Point	: 43%

**Edible Oil Refinery from Crude Palm Oil**

Palm oil is edible oil which is extracted from the pulp of fruit of oil palms. The color of pulp is red. That's why crude palm oil is naturally similar to pulp color because of high inactive vitamin A content. It is different from kernel oil or coconut oil. Commonly it is combined or mixed with coconut oil to make highly saturated vegetable fat, which is also used for cooking purposes. Refining process is a necessary step for the production of edible oils and fats products. The objective of this process is to remove the impurities and other components, which will affect the quality of finished product.

Indian edible oil industry is composed of some 15,000 oil mills, 600 solvent extraction units, 250 vanaspathi units and over 600 refining units. These employ over a mn people. High import duty on palm oil will curb

PROJECT COST ESTIMATE CAPACITY	
<b>Edible Oil Refinery from Crude Palm Oil</b>	
: 80 MT/Day	
Plant & Machinery	: ₹ 1087 Lakhs
Cost of Project	: ₹ 5329 Lakhs
Rate of Return	: 26%
Break Even Point	: 49%

imports of edible oils in the current oil year. Imports are not expected to cross last year's level of 15.1 million tonne. The increase, if at all, will be of only around 200,000 tonnes. Entrepreneurs who invest in this project will be successful.

## Readymade Khaini (Geeli)

**K**haini chewing, a form of smokeless tobacco is viewed to be relatively harmless by the rural folk. Khaini is tobacco with slaked lime. The negative consequences of stress as a risk factor for cardiovascular disease and reduced human performances are well studied. Stress is known to change the balance existing between the sympathetic and the parasympathetic divisions of the autonomic nervous system. Khaini chewers are likely to suffer from mental and physical exhaustion, leading to stress.

### PROJECT COST ESTIMATE CAPACITY

<b>Geeli Readymade Khaini</b>	
(Packed in 15 gms & 30 gms Size) :	1 MT/Day
Plant & Machinery :	₹ 13 Lakhs
Cost of Project :	₹ 123 Lakhs
Rate of Return :	72%
Break Even Point :	27%

The data revealed that khaini consumption in Maharashtra increased to 15.5% in 2016-2017 from 14.5% in 2009-2010. Similarly, consumption of gutkha increased from 8.3% to 8.6%. smokeless tobacco products is higher among women as compared to men. For example, the consumption of betel quid with tobacco is 3.8% in women as compared to 3.6% in men. Similarly, tobacco for oral application is 8.2% among females, compared to 1.9% in males. The consumption of snuff in women is 1.3% compared to 0.4% in men. As a whole there is a good scope for new entrepreneur to invest in this business.

## Production Unit of Liquid Washing Soap, Perfumed Bleach for the Wash of White Cloths, Toilet/Tills Hard Stains Remover Liquid, Detergent Powder

**L**audry detergent, or washing powder, is a type of detergent (cleaning agent) that is added for cleaning laundry. In common usage, "detergent" refers to mixtures of chemical compounds including alkylbenzene sulfonates, which are similar to soap but are less affected by hard water. In most household contexts, the term detergent refers to laundry detergent vs hand soap or other types of cleaning agents. While detergent is still sold in powdered form, liquid de-

### PROJECT COST ESTIMATE CAPACITY

Detergent Powder :	3.2 MT/Day
Liquid Washing Soap :	3.2 MT/Day
Toilet Cleaner :	3.2 MT/Day
Perfumed Bleach :	3.2 MT/Day
Stain Remover Liquid :	3.2 MT/Day
Plant & Machinery :	₹ 72 Lakhs
Cost of Project :	₹ 210 Lakhs
Rate of Return :	28%
Break Even Point :	74%

tergents have been taking major market shares in many countries since their introduction in the 1960s.

Cleaning compositions that effectively disinfect and clean hard surfaces such as those in lavatories and bathrooms, particularly toilet bowls, are well known. Typical cleaning compositions provide effective coverage of the treated surfaces to ensure that contact between the cleaning composition and contaminants present on the surface occur. Ineffective disinfection and cleaning of the surface often is the end result without such contact, particularly for inner toilet bowl surfaces. For pitched toilet bowl surfaces, viscous cleaning compositions can provide good coverage and retention, particularly vertically sloped interior surfaces of a toilet bowl. Therefore, it is a good project for entrepreneurs to invest

## Chili Oil

**C**hili oil is essentially dried chilies, preserved in oil. It adds a delightful kick to whatever dish you're using it in. Commonly used as a finishing oil for risottos, pastas and seafood, it's also a great oil for any stirfry. Chili also called red pepper belongs to the genus capsicum, under the solanaceae family. They are believed to have originated from South America. Chilies are referred to as chilies, chile, hot peppers, bell peppers, red peppers, pod peppers, cayenne peppers, paprika, pimento, and capsicum in different parts of the world.

### PROJECT COST ESTIMATE CAPACITY

Chilli Oil :	27,300 Kg./Annum
Oleoresin :	122,700 Kg./Annum
Plant & Machinery :	₹ 1828 Lakhs
Cost of Project :	₹ 2450 Lakhs
Rate of Return :	27%
Break Even Point :	45%

Total world chili oil demand to increase by 1.4 million bpd, which makes India's expected growth of some 300,000 bpd the most significant source of growth for crude producers outside of China's expected lift in demand of about 380,000 bpd. Entrepreneurs who invest in this project will be successful.

## Infrared Reflected (IR) Paint

**T**he sun energy reaches Earth as UV, visible and infrared radiation. The last one is largely responsible for heat build-up. © Solar radiation, visible radiation, near infrared (NIR) radiation, very short wavelength infrared (VSWIR) radiation etc., The visible region of the electromagnetic spectrum is commonly considered to be the wavelength range between 0.4-0.72 μm (400-720 nm). The polymers used in the SRP roof systems expand when wet, offering unparalleled protection expands when wet offering unparalleled protection against damaging moisture penetration. The roof coat resin has a very special property known as "Variable Permeability". When conditions are wet, the polymers swell up becoming completely watertight. This report deals with the simulation thermal coating for providing the room comfort and thereby reducing the usage of Air conditioning units and fans.

Infrared-reflective coatings can be formulated with various pigments, metals (such as



aluminum) or other materials to produce an IR-reflective barrier. The paints industry in India has been growing at the rate of around 12% a year. The paints market has crossed the Rs. 135 bn mark. By volume, the market is estimated at 1.4 mtonne which is growing at an average annual growth of over 6 to 8% (12% by value). The unorganized sector, shrunk in the recent years, still commands a share of 46% (by volume) and 35% (by value). The global cool roof coating market is expected to reach USD 5.41 billion by 2025. The global cool roof coating market demand was 37.7

million liters in 2015 and is expected to reach 78.5 million liters by 2025, growing at a CAGR of 7.6% from 2016 to 2025. The global IR Reflected coating market is expected to reach USD 5.41 billion by 2025. which facilitates the development of new technologies and ensure a high quality product.

PROJECT COST ESTIMATE CAPACITY	
Infrared Reflected (IR) Paint : 300 Ltrs./Day	
Plant & Machinery	: ₹ 33 Lakhs
Cost of Project	: ₹ 196 Lakhs
Rate of Return	: 26%
Break Even Point	: 40%

### Ferro Molybdenum

Ferromolybdenum alloys are principally produced commercially by thermite process by which ingots or buttons of the alloy can be produced. They impart special properties to steel. The alloys provide increased resistance to corrosion; improve hardness and tensile strength at high temperature, gives wear and abrasion resistance and increases creep strength, etc.

PROJECT COST ESTIMATE CAPACITY	
Ferro Molybdenum : 10 MT/Day	
Plant & Machinery	: ₹ 135 Lakhs
Cost of Project	: ₹ 776 Lakhs
Rate of Return	: 31%
Break Even Point	: 68%

Steel consumption is expected to grow at an average rate of 6.8 per cent to reach 104 MT by 2017 and steel production in India expected to go up to 200 MTPA by 2020. By

volume, the market for Ferro manganese is predicted to expand at a 4.5% CAGR from 2014 to 2020. The growing demand for molybdenum bearings in the steel and chemical sectors is alleviating its prices. This is expected to benefit the molybdenum market to a great extent. This facilitates the development of new technologies and ensures a high quality product.

### Ferro Vanadium

Ferro vanadium is an alloy which is formed by combining iron and vanadium. Ferrovandium contains 35% to 85% of vanadium depending on applications of the product in end-use industry. Ferro vanadium is an alloy material that is used in manufacturing of steel. Ferrovandium (FeV) is an alloy formed by combining iron and vanadium with a vanadi-

PROJECT COST ESTIMATE CAPACITY	
Ferro Vanadium : 4 MT/Day	
Plant & Machinery	: ₹ 135 Lakhs
Cost of Project	: ₹ 659 Lakhs
Rate of Return	: 31%
Break Even Point	: 68%

um content range of 35%-85%. The production of this alloy results in a grayish silver crystalline solid that can be crushed into a powder called "ferrovandium dust."

The steel industry accounts for around 92% of vanadium consumption. Tool, high speed and high alloy steels contain around 20% vanadium, and high strength low alloy (HSLA) steel contains less than 0.5% vanadium. Global Steel Demand Forecast to Expand Further 2018 steel demand forecast to grow 1.8% to 1.62 billion metric tons, but more slowly in 2019. This facilitates the development of new technologies and ensures a high quality product.

### Hydrazine Hydrate

Hydrazine N<sub>2</sub>H<sub>4</sub>, a colorless liquid having an ammoniacal odor, is the simplest diamine and unique in its class because of the NAN bond. Hydrazine is produced commercially primarily as aqueous solutions, typically 35, 51.2, 54.4, and 64 wt% N<sub>2</sub>H<sub>4</sub> (54.7, 80, 85, and 100% hydrazine hydrate). Anhydrous hydrazine is produced for rocket propellant and limited commercial applications.

PROJECT COST ESTIMATE CAPACITY	
Hydrazine Hydrate : 2400 MT/Annum	
Hydrochloric Acid (30%) : 3675 MT/Annum	
Plant & Machinery	: ₹ 836 Lakhs
Cost of Project	: ₹ 1535 Lakhs
Rate of Return	: 26%
Break Even Point	: 50%

The 60%-85% segment is projected to be the fastest-growing concentration level segment of the market between 2017 and 2022. The 60%-85% concentration level hydrazine hydrate is used as a

propellant in emergency power units (EPU) on the F16 and other single engine aircraft. Hydrazine Hydrate Market is anticipated to reach USD 531.23 Million by 2023. This facilitates the development of new technologies and ensures a high quality product.

### Synthetic Camphor

Camphor is a waxy, flammable, white or transparent solid with a strong aroma. It is a terpenoid with the chemical formula C<sub>10</sub>H<sub>16</sub>O. It is found in the wood of the camphor laurel (Cinnamomum camphora), a large evergreen tree found in Asia and also of the unrelated kapur tree, a tall timber tree from the same region. This port traded in camphor extracted from laurel trees (Cinnamomum camphora) that were abundant in the region. Even now, the local tribespeople and Indonesians in general refer to aromatic naphthalene balls and moth balls as kapur Barus.

Camphor can be produced from alpha-pinene, which is abundant in the oils of coniferous trees and can be distilled from turpentine produced as a side product of chemical pulping. With acetic acid as the solvent and with catalysis by a strong acid, alpha-pinene readily rearranges into camphene, which in turn undergoes Wagner-Meerwein rearrangement into the isobornylcation, which is captured by acetate to give isobornyl acetate.

The global market for synthetic camphor is estimated to be valued at US\$ 322.3 Mn by the end of 2018 and is expected to reach a market value of US\$ 571.6 Mn by the end of 2028, expanding at a CAGR of 5.9% over the forecast period. The global market is anticipated to

Continue on Page 34

# MARKET SURVEY

Cum

Detailed Techno Economic Feasibility Reports



**npcs**

AN ISO 9001 : 2015 CERTIFIED COMPANY

## 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, GYPSUM, MARBLE, GRANITE, COAL, CHALK AND SILICA PROJECTS**

- Abrasive Cloth for Shoe Industry
- Abrasive & Flint Paper
- Abrasive Emery Cloth
- Abrasive Slab (Cement based) for Knife Sharpening
- Asbestos Ridges and Roofing Sheets
- Asbestos Fibre from Amphibole Ore
- Asbestos Cement Pressure Pipe & Fitting
- Asbestos Pressure Pipes
- Asbestos Cement Corrugated Sheet
- Asbestos Yarn
- Abrasive Grinding Wheel
- Brick Field from Sandy Clay
- Bonded Abrasive (In form of Block, Wheels and Rolls)
- Bricks from Desert Sand



- Bricks from Fly Ash
- Cement Blocks
- Buffing & Polishing Compounds Manufacture (Cake Form)
- Brick Plant (Automatic)
- Cement Water Proofing Compound
- Coal Washing Unit
- Cement from Rice Husk
- Cement Grinding Unit
- Cement Plant
- Cement Roofing Tiles
- Ceramic Novelties
- Cement Sheets with Coir Fibre and other Segments
- Coir Cement Board 1) Corrugated Coir 2) Coir Cement Board



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

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## SELECTED PROJECTS FOR RIGHT INVESTMENT

- Cement from Rice Husk
- Cement Concrete Pipe
- Cement from Fly Ash & Lime
- Cement Electric Poles (Pre-Stressed Concrete Poles)
- Cement Poles, Jallies & Tiles
- Emery Stone for Atta Chaki
- Emery Paper Cloth
- Fire Bricks
- Fuel Bricks from Saw Dust
- Granite and Marble Polishing Stone
- Gypsum Plaster Board
- Emery Power
- Granite Polishing Stone
- Grinding of Graphite & Asbestos
- ERW Pipes
- Hydraulic Cement
- Low Carbon Ferro Manganese
- Lenoleum Tiles
- Lime Bonded Fly Ash Bricks
- Lime Pozzolona
- Metal Paste
- Mini Cement Plant (Slag Cement)
- Metal Polishing and Buffing Bars
- Mini Cement Plant (by Rotary Kiln Process)
- Mosaic Tiles
- Plugging Compound
- Pressure Concrete Pipes (Moulding Process)
- P.C.C. Electric Poles
- Prestressed Railway Concrete Sleepers
- Roofing Compound
- Refractories Plant with Ceramic
- Roofing and Water Proofing Compound
- R.C.C. Spun Pipe
- Spun Concrete Pipe Utilisation In Dist. of Electrical Line
- Salt Glazed Stone Ware Pipes & Fittings
- Silica Sand
- Semi Automatic Brick
- Silica Ramming Mass (Acidic Ramming Mass)
- Silicon Spray
- Sisal Polishing Wheels
- Sagol
- Glazed Tiles
- White Cement
- Cement Plant (saboo)
- Bricks from Fly Ash
- Sanitary Products (Wash Basin, Bathroom Closets)
- Stone Crushing Unit



- Emery Stone
- Metal Polishing and Buffing Bars
- Emery Paper Cloth
- Coal Washing Unit
- Prestressed Concrete Sleepers
- Iron Ore Mining and Processing
- Clay and Sand Bricks Plant
- Fuel Bricks from Groundnut, Soyabean Hull & Jute
- Magnesium Metal
- Intergrinding of Fly Ash with Portland Cement Clinker
- Non Coking Coal to Coking Coal (Conversion By Burning)
- Wet - Ground Mica
- Glass Bottle from Scrap
- R.C.C. Bricks (used in Petrol Pump Flooring)
- Bricks Glazing
- Grinding Media Balls and M.S/S.S Ingots
- Mineral Wool or Slag Wool or Glass Wool
- Micronized Powder of Calcite
- Concentrated Manganese Ore Production
- Granite Tiles Cutting & Polishing
- Aggregate Business
- Fire Clay Bricks
- P.P. Bags for Cement
- PVC Solvent Cement
- Gypsum Plaster Boards
- Oxygen Lancing Pipes (Gas Lancing Pipe, Tube)
- Bitumen Emulsion
- Interlocking Cement Blocks
- Interlocking Paver Blocks
- Bricks from Fly Ash (Triolectric Beneficiation Process)
- Calcium Carbonate from Limestone (Precipitated and Activated)
- Resin Capsules
- Cement Capsules for Rock Bolting
- RCC (Reinforcement Concrete Cement) Poles
- RCC (Reinforced Concrete Cement) Poles
- Bricks from Fume Dust (Used In Construction)
- Gypsum Based Products (Gypsum Powder, Gypsum Board & PVC Laminated Gypsum Ceiling Tiles (Integrated Production Unit))
- Concrete Block and Ready Mix Concrete
- Clinker Grinding for Cement
- Gypsum from Synthetic Gypsum
- PVC Solvent Cement (CPVC & UPVC)
- Composite Marble Slabs



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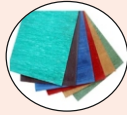
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## SELECTED PROJECTS FOR RIGHT INVESTMENT

- PVC Solvent Cement
- Non Asbestos Jointing Sheet
- Mortar Cement



- Portland Pozzolana Cement Fly Ash Based
- OPC Grade Cement from Clinker



**ACTIVATED CARBON, GRANULAR ACTIVATED CARBON (GAC), ACTIVATED CARBON, ACTIVATED CARBON POWDER, POWDERED ACTIVATED CARBON (PAC), ACTIVATED CHARCOAL, ACTIVATED COAL, ACTIVATED FULLER EARTH, PELLETTED ACTIVATED CARBON (EAC), IMPREGNATED CARBON, POLYMERS COATED PROJECTS**

- Plugging Compound
- Activated Charcoal from Wood
- Activated Carbon
- Activated Fuller Earth
- Activated Carbon from Coconut Shell
- Activated Carbon from Wood
- Acid Washed Granulated Activated Carbon
- Activated Carbon from Fuller Earth
- Methods of Test for Activated Carbon Powdered and Granular
- Activated Charcoal from Wood
- Activated Carbon from Rice Husk and Coconut Shell/ Saw Dust
- Activated Carbon from Wood Derived Char



- Activated Carbon Hazelnut Shell
- Wood Charcoal
- Activated Carbon from Rice Husk and Coconut Shell/Saw Dust by Chemical Activation Method (using Oxidizing Agent KOH)
- Activated Carbon for Water Filters and Face Masks
- Activated Carbon from Coconut Shell Charcoal
- Unwashed Activated Carbon Powder from Wood
- Wood Charcoal from Soft Wood and Hard Wood
- Wood Charcoal

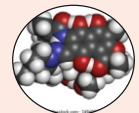


## ACTIVE PHARMACEUTICAL INGREDIENT (API) PRODUCTS

- Amoxicillin
- Azithromycin
- Erythromycin Stearate/Estolate
- Ceftriaxone
- Cefoperazone
- Cefixime
- Cephalexin
- PiperacillinTazobactam
- Sulbactam
- Dexamethasone
- Prednisolone
- Metformin
- Gabapentin
- Rifampicin
- Vitamin B1



- Vitamin B6
- Clindamycin phosphate
- Streptomycin
- Neomycin
- Gentamycin
- Doxycycline
- Potassium Clavulanate
- Oxytetracycline
- Tetracycline
- Clarithromycin
- Betamethasone
- Ciprofloxacin
- Losartan
- Telmisartan
- Artesunate



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

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Mob.: +918800733955, 9097075054 Fax : 91-11-23845886

Website : www.niir.org • www.entrepreneurindia.co • E-mail : info@niir.org , npcs.india@gmail.com

## SELECTED PROJECTS FOR RIGHT INVESTMENT

- Norfloxacin Ofloxacin
- Metronidazole
- Sulfadiazine
- Levofloxacin
- Meropenem
- Paracetamol
- Tinidazole
- Ornidazole
- Ritonavir
- Diclofenac Sodium
- Aspirin -
- Levetiracetam
- Carbidopa



- Levodopa
- Carbamazepine
- Oxcarbazepine
- Valsartan
- Olmesartan
- Atorvastatin
- Acyclovir
- Lopinavir
- Metformin
- Diclofenac Sodium, Potassium and Aceclofenac
- Paracetamol IP/BP/USP by PNCB (Para Nitro Chloro Benzene) Route
- Rosuvastatin



## ADHESIVES, INDUSTRIAL ADHESIVE, SEALANTS, GLUES, GUMS & BINDERS, SYNTHETIC RESIN, RESINS PROJECTS

- Adhesive (Fevicol Type)
- Adhesive for Two Wheeler & Three Wheeler Clutch Plate
- Adhesive Based on Vinyl Acetate (Fevicol Type)
- Adhesive Tape for Hospital use
- Adhesive Used for Leather to Polyurethane Adhesive
- Adhesive Industries laminated Fevicol Sticker DDL and other Types Adhesives
- Adhesive Powder for Electric lamp
- Adhesive for Stickers
- Adhesive for Corrugation Dry (Powder)
- Arabic Gum
- All Purpose Adhesive
- Adhesive for Corrugation (Dry Powder)
- Alkyd Resin (Soyabean Oil and Linseed Oil)
- Chemicals from Prawn Head
- Cellophane Tape
- Copper to Copper Adhesive (Quick Fix Type)
- Crepe Bandage with Adhesive Coating
- Dextrin Adhesive for Corrugated Card Board Boxes
- Epoxy Resin
- Extraction of Gelatin Glue from Leather Waste
- Extraction of Glue from Glue White Powder from Glue



- Foot Wear Adhesive
- Gaur Gum
- Gum & Adhesive
- Glue White Powder from Glue
- Guar Gum
- Gum Powder from Guar Gum
- Glue from Bone Sinews
- Guar Gum Powder
- Glue and Gelatin
- Glazed Paste for Refractory
- Gummed Paper Tape
- Gasket Shellac Compound
- Gum (Boot Polish Gum, Office Paste, Printing Gum & Plywood Adhesive)
- Hot Melt Glue
- Isophthalic Acid Resin
- Latex based Adhesive
- Latex Based Leather Adhesives
- Leather Adhesives (Cap. 2 Ltrs. Each)/ Year
- Leather Based Adhesive
- Neoprene Based Adhesive (Rubber Adhesive)
- Officece Gum
- Office Paste (Starch Based)
- Pressure Sensitive Adhesive for Bopp Tapes
- Pressure Sensitive Adhesive Tape Binder
- Plywood Rubber Adhesive for (Neoprene)
- Printing Gums



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

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## SELECTED PROJECTS FOR RIGHT INVESTMENT

- Pressure Sensitive Self Adhesive PVC Tape
- Polyester Transparent Self Adhesive Tape
- Pressure Sensitive Self Adhesive Tapes
- PVC Insulating Tape
- PVC Insulation Tape and Cellophane Tape
- Resin Based Adhesive
- Resin Cored Soft Solder Sticks
- Rubber Based Adhesives
- Rubber Solution
- Rubber (Leather Based Adhesive)
- Starch from Tapioca
- Synthetic Rubber Adhesive
- Self Sticking Album
- Stickers and Labelling Plant
- Sizing, Printing & Food Gums
- Synthetic Gum
- Surface, Floor & Car Polishes
- Solid Adhesive Sticks (Glue Stick)
- Surgical Adhesive Plaster
- Synthetic Gum (Based on Vinyl Acetate for Lamination Adhesive)
- Starch Gum Dextrine & Silicate
- Tamarind Seed Decorticating & Powder Starch Making
- Thermosetting Adhesive for Filter Element
- Textile Printing Paste (Gum)
- Gum Karaya Processing Unit
- Tapioca Starch Adhesive for Corrugated Board & Boxes in Powder Form
- Glue Stick
- Pressure Sensitive Adhesives for Bopp Tapes (Acrylic Based)
- Guar Gum Powder from Guar Split
- Synthetic Rubber Adhesive like Fevicol Sr
- Adhesive (Based on Vam) Fevicol Type (Wood Lamination Type)
- Adhesive (Based on Vam) Fevistick Type
- Adhesives (Based on Vam) Pencil Grade
- Adhesives (Based on Vam) Match Stick Grade (for Match Industry)
- Adhesive (Based on Vam) Feviquick Type
- Adhesives (Based on Vam) Paper Lamination Grade
- Adhesives (Based on Vam) Distemper Grade (DDL Type)
- Adhesives (Based on Vam) Pressure Sensitive Grade (Sticker)
- Adhesives (Based on Vam) Textile Grade (For Handloom Industry)
- Adhesives (Based on Vam) Soft Leather Grade
- Adhesives (Based on Vam) Paint Grade
- Adhesives (Based on Vam) Emulsion Grade



- Amino Resin Based Adhesive
- Sodium Silicate Based Adhesive
- Dextrin Based Adhesive
- Cellulose Based Adhesive
- Epoxy Based Adhesive (Araldite Type)
- Polyurethane Based Adhesive
- Pressure Sensitive Adhesives Eva Based
- Pressure Sensitive Adhesives Styrene-Butadiene Based
- Pressure Sensitive Adhesives Nitrile Rubber Based
- Pressure Sensitive Adhesives Polychloroprene Based
- Starch Based Adhesive
- Hot Melt Adhesives for Speciality Applications
- Hot Melt Adhesives for Book Binding Industry
- Hot Melt Adhesives for Rubber Adhesion
- Hot Melt Adhesives for Metal to Metal Adhesion
- Hot Melt Adhesives for Corrugated Board, Fiber Board, Solid Fiber Industry
- Hot Melt Adhesives for Plywood, Particle Board, Paper Industry
- Hot Melt Adhesives for Tape Industry
- Hot Melt Adhesives for Textile Industry
- Hot Melt Adhesives for Carpet Industry
- FOAM ADHESIVES
- Patching and Sealing Compounds for Caulking
- Patching and Sealing Compounds for Cement, Concrete and Plaster
- Patching and Sealing Compounds for Patching
- Patching and Sealing Compounds for Glazing
- Patching and Sealing Compounds for Mastics
- Patching and Sealing Compounds for Putties
- Hot Melt Adhesives for Shoe Industry
- Hot Melt Adhesives for Auto Industry
- Synthetic Rubber Adhesive like Fevicol SR
- Adhesive for Paper Board
- Construction Adhesive
- Gum (Sodium Silicate Based)
- Emulsion & Solution Polymerisation of M.M. Monomer for use as an Adhesive
- Adhesive (Latex)
- Guar Gum Powder
- Extraction of Gelatin Glue from Leather Waste



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

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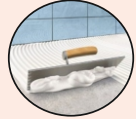


## SELECTED PROJECTS FOR RIGHT INVESTMENT

- Adhesive used for Leather to Polyurethane
- Starch Glue & Pressure Sensitive Adhesive for Paper Gumming Plant
- VAM and Acrylic Based Adhesives
- Eva Based Hot Melt Adhesive
- Xanthan Gum
- Tiles Adhesives
- AAC Block Adhesives
- Vinyl Ester Resin
- Formaldehyde from Methanol
- Cyanoacrylate Adhesive
- Xanthan Gum
- Waterborne Polyurethane Dispersions
- FRP Resin
- Hot Melt Glue



- Synthetic Resin Adhesive for Wood (Furniture)
- Epoxy Hardener
- Urea Formaldehyde UF 85
- Starch Glue Powder
- Solvent Based Acrylic Adhesive (used in Leather and Shoe Making)
- Ethyl Cyanoacrylate Glue (MDF Glue)
- Locust Bean Gum
- Contact Adhesive
- N.C. Based Sanding Sealer
- Tile Adhesive
- Colour Glue LikeFevi Gum
- Xanthan Gum from Wheat Starch
- Hot Melt Pressure Sensitive Adhesive



# ALCOHOL PROJECTS

- Absolute Alcohol (Ethanol) Cap 12.2 Million Gallon
- Alcohol from Tapioca Starch
- Bottling Plant (Alcoholic & Non Alcoholic)
- Brandy
- Country Liquor
- Potable Alcohol from Grains & Damaged Fruit
- Alcohol from Potatoes
- Alcohol from Rice Straw
- Absolute Alcohol from Molasses
- Alcohol from Rice Straw
- Benzyle Acetate, Benzyle Alcohol & Benzyle benzoate
- Benzyl Acetate, Benzyl Alcohol, Benzyl Benzoate
- Ethyl Alcohol (Potable Liquors)
- Ethyl Aceto Acetate from Ethyl Alcohol
- Power Alcohol
- Poly Vinyl Alcohol
- Poly Vinyl Alcohol Film (Cold water Soluble)
- Potable Alcohol from Grains and damaged Fruit
- Absolute & Power Alcohols
- Tincture from Rectified Spirit
- Mild Biocides for Distillery, Sugar, and Food



- Methylated Spirit from Sugar Cane Molasses
- Yeast from Molasses (Distillery Yeast)
- Rectified Spirit
- Kinnow Winery
- Grape Cultivation & Grape Wine
- Beer Industry
- Alcohol from Potato
- Vodka from Potato
- Ethanol from Rice Straw and Rice Husk
- Fatty Alcohol
- Malt Spirits
- Wine from Mango Fruit
- OXO Alcohol
- Edible Alcohol from Molasses
- Ethanol (Grain Based)
- Denatured Ethanol
- Ethanol from Corn and Rice
- Alcohol from Cashew Apple
- Ethanol from Mahua
- Ethanol from Sugarcane Juice
- Ethanol from Wheat Straw
- Furfuryl Alcohol from Rice Husk
- Onion, Garlic & Tomato Paste
- Ethanol from Rice and Wheat Straw
- Beer from Coconut



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

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represent incremental opportunity worth US\$ 249.3 Mn between 2018 and 2028. Synthetic camphor is used in production of insecticides such as moth repellants and mosquito repellants. With the rising awareness

around the air purifying properties of synthetic camphor, the demand for synthetic camphor powder has seen an upsurge from the downstream producers of synthetic camphor tablets.

Synthetic camphor is conventionally prepared from the extracts of the camphor tree. While the one

produced using chemical synthesis is known as synthetic camphor. One of the most important raw material employed in the manufacturing of synthetic camphor is turpentine oil. Synthetic camphor involves two grades of products solely differentiated in the terms of its purity.

## Geotextiles for Road and Construction

The global geotextiles market is expected to be over \$12 billion by 2024, growing at a rate of 5-7 per cent. Rapid urbanization in China, India and Brazil along with favorable government initiatives to improve infrastructure will favor the housing, transport, and construction and energy industries, thereby scaling up the size of the geotextiles industry. Increasing environmental concerns

along with a shift in consumer trends towards green buildings and material is likely to positively influence industry growth. In India, the geotextiles market is expected to continue the momentum of double-digit growth on the back of a strong infrastructure push. Growing road construction in the country is one of the major factors expected to aid the geotextiles market. The railway sector is another fast

emerging application area for geotextiles, as upcoming metro rail, bullet train and high speed train projects in the country are expected to fuel the demand for geotextiles. Entrepreneurs who invest in this project will be successful.

### PROJECT COST ESTIMATE CAPACITY

Geotextiles for Road & Construction	: 2,934 Kgs/Day
Plant & Machinery	: ₹ 326 Lakhs
Cost of Project	: ₹ 665 Lakhs
Rate of Return	: 28%
Break Even Point	: 57%

## OUR BANK DETAILS

Bank	HDFC Bank Roop Nagar, Delhi - 110007
Current A/c No.	59207871640641
RTGS/NEFT	HDFC0000339
MICR CODE	110240053

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



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Project Reports included in this issue were prepared on the basis of data available at the time of preparing these reports. With the passage of time there might be variations in data. Entrepreneurs are requested to update the data before venturing into any project discussed herein. However efforts has been made to give correct information even then no guarantee can be given about the authenticity of the matter. All disputes are subject to Delhi Jurisdiction only.

### PUBLISHERS :



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### PUBLISHING ASSOCIATES :



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Website: www.apbp-techbooks.com

## Directory & Databases

Offline Business directories are the best thing in today's business world. If you are searching for Buyers, then our Business Directories/Database are the perfect tools for you. We provide Business Directories for high quality business leads. We continue to give you the high value and low cost B2B data. We offer an extensive suite of Directories/ database to assist you in reaching the right businesses and people quickly and easily. Business Directories are used for sales planning, finding Buyers and marketing research to perform business analysis.

With our company database/Directory, you will have access to company list. You will find a business list consisting of company contact details. We compiled list of companies in excel format to give you access to over hundred thousands of businesses and companies. From small business to Corporate Houses, our data is complete with business contact information to help you connect with the right companies or buyers.

By having the right business leads, our client's would be able to have immediate communication with prospective businesses, partners and customers through our boundless list of companies in csv excel format.

With our B2B data, you will find database of companies with websites, phone, fax, mailing address and other contact info.

Our Database of Businesses includes the following fields:

- Company Name
- Phone
- Address
- City
- State
- Website
- Fax
- Zip
- Country
- Industry, Product & Services

Our Business Directories are useful for existing businesses looking to expand, a potential inward investor looking to reach Business World, or simply to forge links with the competitive businesses already located in our database.

## Reasons for Buying Our Reports

- Our report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product
- Our report provides vital information on the product like its characteristics and segmentation
- Our report helps you market and place the product correctly by identifying the target customer group of the product
- Our report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials
- The report provides a glimpse of government regulations applicable on the industry
- The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions.

## Our Approach

- Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.
- The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players
- We use reliable sources of information and databases. And information from such sources is processed by us and included in the report



**Books & Directory on HERBAL, CULTIVATION, HERBAL PRODUCTS  
COSMETICS, AYURVEDIC MEDICINES****Herbal Cosmetics & Ayurvedic Medicines (EOU) (3rd Rev. Edn.)**

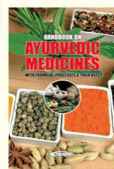
This book is very useful for entrepreneurs, industrialists, project consultants, libraries etc. and has special reference for Herbal Cosmetics and Ayurvedic Medicines with formulae, processes, foreign buyers, Machinery with formulae, processes, foreign buyers, Machinery and raw material sources, project profiles etc. **₹1475 US\$150**

**Hand Book On Unani Medicines With Formulae, Processes, Uses And Analysis**

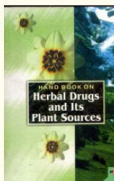
Tremendous progress has been registered in the development of modern medicine. Yet, medicinal plants continue to be an important source of drugs throughout the world. Unani medicine is one of them. Plant as a source of drugs of much more important for the developing countries of Asia, Africa and South America. This publication is one of its kind which clearly indicates the usefulness of Unani medicine, shows how the plant secrets, preserve the natural secrets/harmones/juices which ultimately uses in Unani system of medicine. **₹1100 US\$125**

**Hand Book on Ayurvedic Medicine With Formulae, Processes & Their Uses (2nd Rev. Edn.)**

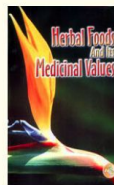
This is the first book of its kind which contains formulae and processes of different types of Ayurvedic medicines like Chum, Capsules, Cyrops, Sharbats, Pastes etc. Used in various diseases. **₹1475 US\$150**

**Hand Book On Herbal Drugs and Its Plants Sources**

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

**Herbal Foods and Its Medicinal Values**

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

**Handbook On Medicinal Herbs With Uses**

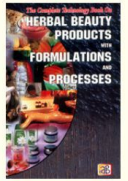
Medicinal herbs are the local heritage with global importance. World is endowed with a rich wealth of medicinal herbs. The Variety and sheer number of plants with therapeutic properties is quite astonishing. Medicinal herbs have curative properties due to presence of various complex chemical substance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

**Hand Book on Neem and Allied Products**

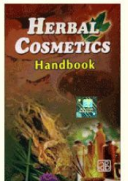
The neem tree, which is also known as Margosa or Indian lilac, grown extensively in Asian and African countries. The need is very useful tree due to its medicinal and insecticidal properties and can be grown even under semi arid and subhumid conditions upto 700m above sea level. The book covers cultivation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

**The Complete Technology Book On Herbal Beauty Products with Formulations and Processes**

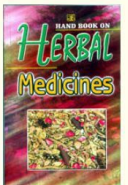
Indian Medical System advocates the use of medicinal plants as drug source. Drugs obtained from plant origin occupy important position in different pharmacopoeist. Products from natural sources are an integral part of human health care system because of major concern about synthetic drugs and their side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

**Herbal Cosmetics Hand Book (3rd Rev. Edn.)**

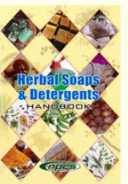
This is the first book of its kind which contains formulae and processes of various herbal cosmetics like cosmetics for the skins, cosmetics for bath purpose, cosmetics for nails, cosmetics for hair, oral cosmetics, analysis of cosmetics, test methods, machinery and raw material suppliers etc. **₹1875 US\$150**

**Hand Book on Herbal Medicines**

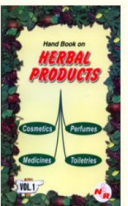
The book contains Formulae of different Herbal Medicines used in all kind of diseases. This is the first book of its own kind. **₹750 US\$100**

**Herbal Soaps & Detergents Hand Book**

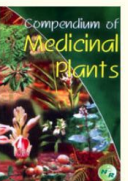
The book covers formulae, processes of different types of herbal soaps & detergents being used in daily life. This is the first book of its kind. **₹1275 US\$125**

**Hand Book on Herbal Products (Medicines, Cosmetics, Toiletries, Perfumes) 2 Vols**

Both the volumes covers processes, formulations, analysis methods with the addresses of raw material and machinery suppliers, project profiles, list of manufacturers, exporters and overseas importers of various herbal medicines, cosmetic, perfumes and toiletries. The book also contains addresses of different Ayurvedic & Unani medicines research institutes. **₹1500 US\$220 (FOR BOTH VOLUMES)**

**Compendium of Medicinal Plants**

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

**Aloe Vera Handbook**

(Cultivation, Research Findings, Products, Formulations, Extraction & Processing)

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

