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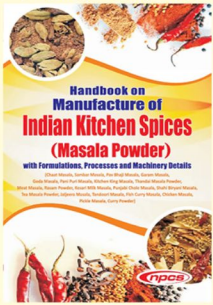
36 Pages

Indian Kitchen Spices (Masala Powder) with Formulations, Processes and Machinery Details

(Chaat Masala, Sambar Masala, Pav Bhaji Masala, Garam Masala, Goda Masala, Pani Puri Masala, Kitchen King Masala, Thandai Masala Powder, Meat Masala, Rasam Powder, Kesari Milk Masala, Punjabi Chole Masala, Shahi Biryani Masala, Tea Masala Powder, Jaljeera Masala, Tandoori Masala, Fish Curry Masala, Chicken Masala, Pickle Masala, Curry Powder)

4th Revised Edition

₹1825/- US\$ 150-



Spices or Masala as it is called in Hindi, may be called the "heartbeat" of an Indian kitchen. The secret ingredient that makes Indian food truly Indian is the generous use of signature spices. From ancient times of the maharaja's, spices have added unforgettable flavours and life to Indian cuisine. Indian spices offer significant health benefits and contribute towards an individual's healthy life. There are a large number of various spices, used along with food such as Chilli (Mirchi), Turmeric (Haldi), Coriander (Dhania), Cumin (Jeera), Mustard (Rai), Fenugreek (Methi), Sesame (Til), Cardamom, Peppercorns (Kali Mirchi), Clove, Fennel (Saunf), Nutmeg and Mace etc.

In modern times, international trade in spices and condiments have increased dramatically which could be attributed to several factors including rapid advances in transportation, permitting easy accessibility to world markets, growing demand from industrial food manufacturers of wide ranging convenience foods. As the demand for Indian spices is increasing day by day, Indian manufacturers are producing spices of high quality.

The book presents the fundamental concepts of Spices (Masala Powder) Indian Kitchen Spices product mix in a manner that new entrepreneurs can understand easily. It covers Formulation for spices i.e., Chaat Masala, Chana Masala, Sambar Masala, Pav Bhaji Masala, Garam Masala, Goda Masala, Pani Puri Masala, Kitchen King Masala, Thandai Masala Powder, Meat Masala, Rasam Powder, Kesari Milk Masala, Punjabi Chole Masala, Shahi Biryani Masala, Tea Masala Powder, Jaljeera Masala, Tandoori Masala, Fish Curry Masala, Chicken Masala, Pickle Masala, Curry Masala.

This book contains manufacturing process, Packaging and Labelling of Spices. The highlighting segments of this book are Spices Nutritional value, Special Qualities and Specifications, Cryogenic Grinding Technology, Food Safety & Quality, BIS Specifications, Quality Control, Market, Sample Production Plant Layout and Photograph of Machinery with Supplier's Contact Details. It also covers Good manufacturing practices in Food Industry, Case Study for Everest and MDH Masala and Top Spice Brands of India.

This book is aimed for those who are interested in Spices business, can find the complete information about Manufacture of Indian Kitchen Spices (Masala Powder). It will be very informative and useful to consultants, new entrepreneurs, startups, technocrats, research scholars, libraries and existing units.

The Complete Technology Book on Dyes & Dye Intermediates **2nd Revised Edition**

A natural or synthetic substance used to add a color or to change the color of something. Dyes are the coloring material that color commodities of our day to day use. Dyes are applied everywhere, from plastic toys for children to that fabrics you wear, from food to wood; hardly there is any industry where dyes are not used commercially.

A dye is a colored substance that has an affinity to the substrate to which it is being applied. It is an ionising and aromatic organic compounds. The dye is generally applied in an aqueous solution, and may require a mordant to improve the fastness of the dye on the fiber. Apart from this, Dye Intermediates also serve as an important raw materials for the Acid, Reactive, and Direct Dyes.

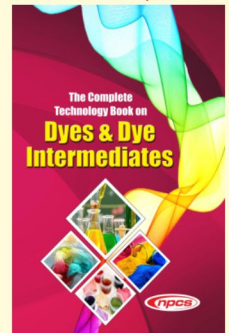
Increase in demand for dye intermediates in textile and extensive use of dye intermediates are some factors driving the dye intermediates market. This is prompting companies to increase production of dye intermediates. Additionally, easy availability of raw materials is anticipated to boost the demand for dye intermediates in the near future.

The global dye intermediates market is witnessing technological advancements. Companies are constantly striving to develop new and better ways to manufacture dye intermediates. Development of new manufacturing processes of dye intermediates and applications is estimated to propel the dye intermediates market. However, volatility in prices of raw material is projected to inhibit the market.

The major contents of the Book are Azo Dyes, Reactive Dyes, Anthraquinone Dyes, Acid Dyes, Basic Dyes, Sulfur Dyes, Cyanine Dyes, Sensitizing Dyes, Dye Intermediates, BIS Specifications, Photographs of Machinery With Suppliers Contact Detail, Plant Layout and Process Flow Chart & Diagram.

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

₹1995/- US\$ 200-



BOOKS ON RUBBER, FIBRE/OPTICAL GLASS, PLASTIC, POLYMERS, PETROLEUM GREASES, PETRO CHEMICALS, WAX, POLISHES & CHEMICAL INDUSTRIES

The Complete Technology Book On PESTICIDES, INSECTICIDES, FUNGICIDES & HERBICIDES with Formulae & Processes

Pesticides, Insecticides, Fungicides and Herbicides are used in agriculture, forestry, animal husbandry, commercial centers and houses for the pest control. During last 35 years, consumption of these products has increased manifold and industries are coming up throughout the world due to its increasing demand. The book contains formulae, processes of different types of pesticides, insecticides, fungicides and herbicides. Rs.1100 US\$125

The Complete Book on Distillation and Refining of Petroleum Products

The most dynamic industry of the century is the petroleum and petrochemicals industry. It has taken the fundamental knowledge of chemistry and chemical engineering and transformed itself from a simple processing industry for fuel and lubricants to an extremely complex chemical process industry which has branched out into synthetic rubber, plastics, fertilizers and many other fields. The book presents Practical information and data which will help oil companies, large scale users of commercial petroleum products in efficient storage, handling and utilization of these products. Different formulae, processes for the production of petroleum products are given in this book. Rs.975 US\$100

DRUGS & PHARMACEUTICAL TECHNOLOGY HANDBOOK

India has come a long way in the field of manufacture of Drugs and Pharmaceuticals. From a country importing more than 95% of its requirement of Drugs and Pharmaceuticals, India now is exporting it even to developed countries. The modern Indian Pharmaceutical Industry is recent and its foundation was laid in the beginning of the current century. The pharmaceutical industry can be broadly categorised as Bulk Drugs, Formulations, IV Fluids and Pharmaceutical Aids (such as medical equipment, hospital disposables, capsules, excipients etc. Special feature of the pharma industry is a large number of manufacturers in the small scale sector. The government is also encouraging the SSI sector providing some incentives. Rs.1075 US\$125

The Complete Book on Medical Plastics

The use of plastics in health care field encompasses several distinct markets. Plastic is used on a large scale as medical devices like disposable syringes, optical and dental products, heart valves, contact lenses and many more medical products. This way plastic has very importance in making medical devices. The present book contains the important information of plastics in medical field and their uses in various ways. Rs.975 US\$100

The Complete Book on RUBBER PROCESSING AND COMPOUNDING TECHNOLOGY (with Machinery Details) 2nd Rev. Edn.

Rubber products industry is an important resource based industry sector in India. Over the last decade the rubber industry has witnessed a steady and strong growth. Rubber can be deformed to a high degree of strain in a reversible manner and this special property finds use in fields as diverse as transportation, material handling, health care, and sport and leisure activities. The book covers manufacturing processes of rubber products, compounding of rubber, quality assurance, applications etc. Rs.1875 US\$150

The Complete Technology Book on Synthetic Resins with Formulae & Processes

Some of the fundamentals of the book are electrodeposited pigmented coating compositions based on alkyd resins, phosphorus containing allylic resins, vapour permeation cure technology, characterization of water soluble anodic electrode positive pigmented coating compositions, protection of concrete substrates, zinc rich coatings, electro deposition primers, developments in thermosetting powder coatings, application of powder coatings, polyethylene glycol, petroleum recovery and processing, industries using polyethylene glycols, silicones resins, preparation & formulation of silicone resin based coatings, pigments and dyes etc. Synthetic Resins are used by lot of industries. ₹1150 US\$125

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

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

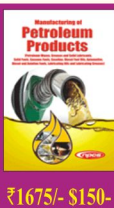
Synthetic Resins Technology Handbook

The book basically deals with new materials for cost reduction of alkyds and unsaturated polyester, amino resins, polyester based resins, enzymatic synthesis of phenolic copolymers, radiation curable hybrid formulation, self polishing anti fouling epoxy resins, epoxy resins from methyl epichlorohydrin, fillers, reinforcements, and other additives, cardanol modified epoxy resins, baking coatings from epoxy derived from cardanol, phenolic resins, polyurethane resins, aqueous polyurethane dispersion technology, heat resistant resins, etc. ₹1100 US\$125

Handbook on Manufacture of Acetophenone, Alcohols, Allethrin, Anthracene, Barium Potassium Chromate Pigment, Calcium Cyanamide, Carboxymethylcellulose, Carotene, Chlorophyll, Chemicals from Acetaldehyde, Fats, Milk, Oranges, Wood, Manufacture of Dye Intermediates and Dyes, Fine Chemicals, Formaldehyde, Granulated Fertilizers, Granulated Triple Superphosphate and Hydroquinone Rs.1100 US\$125

Manufacturing of Petroleum Products

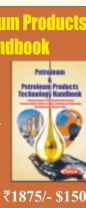
(Petroleum Waxes, Greases and Solid Lubricants, Solid Fuels, Gaseous Fuels, Gasoline, Diesel Fuel Oils, Automotive, Diesel and Aviation Fuels, Lubricating Oils and Lubricating Greases)



₹1675/- \$150-

Petroleum & Petroleum Products Technology Handbook

(Thermal Cracking of Pure Saturated Hydrocarbons, Petroleum Asphalts, Refinery Products, Blending and Compounding, Oil Refining and Residual Fuel Oils)

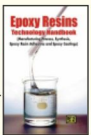


₹1875/- \$150-

Epoxy Resins Technology Handbook

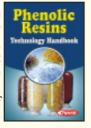
(Manufacturing Process, Synthesis, Epoxy Resin Adhesives and Epoxy Coatings) (2nd Rev. Edn.)

The major contents of the book are synthesis and characteristics of epoxy resin, manufacture of epoxy resins, epoxide curing reactions, the dynamic mechanical properties of epoxy resins, physical and chemical properties of epoxy resins, epoxy resin adhesives, epoxy resin coatings, epoxy coating give into water, electrical and electronic applications, analysis of epoxides and epoxy resins and the toxicology of epoxy resins. ₹1895 US\$150



Phenolic Resins Technology Handbook (2nd Rev. Edn.)

This book basically deals with general reaction of phenols with aldehydes, the resoles, curing stages of resoles, kinetics of a stage reaction, thermosetting alloy adhesives, vinyl phenolic structural adhesives, nitrile phenolic structural adhesives, phenolic resins in contact adhesives, chloroprene phenolic contact adhesives, nitrile phenolic contact adhesives, phenolic resins in pressure sensitive adhesives, rubber reinforcing resins, resorcinol formaldehyde latex systems, phenolic resin chemistry, bio-based phenolic resins, flexibilization of phenolic resins, floral foam (Phenolic Foam) with resin manufacturing, lignin-based phenol formaldehyde (LPF) resins, phenol formaldehyde resin, alkaline phenol formaldehyde resin, furfuryl alcohol phenol urea formaldehyde resin, phenol formaldehyde resin (Shell Sand Resin), phenol formaldehyde resin (Cold Box Resin). ₹1895 US\$150



Alkyd Resins Technology Handbook

This book contains alkyd formulation, modification of alkyds, styrene copolymers in alkyd resins, copolymerization of alkyd silicon, polyblends of alkyds, alkyd and alkyd in surface coatings, alkyd calculations, and alkyd monograms. This book will find very helpful to all its readers, entrepreneurs, scientists, technical institution, existing industries, paint technologist etc. ₹1000 US\$125



Modern Technology of Synthetic Resins & Their Applications

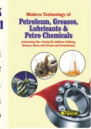
(Acetal, Acrylonitrile, Alkyd, Amino, Casein, Cashewnut Shell Liquid, Epoxy, Phenolic, Polyamide, Polyurethane, Rubber, Silicon, Polyvinyl Acetate, Shellac, Sucrose, Terpene Resins) (2nd Revised Edition)

The major contents of the book are properties, manufacturing process, formulae of synthetic resins and applications of synthetic resins, derivatives of resins, use of resins in polymer field, alkyd resin technology, epoxy resins, manufacture of polystyrene based ion-exchange, phenol formaldehyde reactions, polystyrene glycol and alkyd in surface coatings, alkyd calculations, and alkyd monograms, modification with synthetic resins, water-soluble polymers, cross-linking of water-soluble coatings etc. ₹1575 US\$150



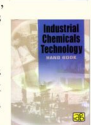
Modern Technology of Petroleum, Greases, Lubricants & Petro Chemicals (Lubricating Oils, Cutting Oil, Additives, Retining, Bitumen, Waxes with Process and Formulations) 3rd Rev. Edn

Lubricants, Greases and petrochemicals are most versatile on the industrial Plateau now a days. The significance of Lubricants, Greases & speciality products in the day-to-day functioning of nearly every machine part, instrument, appliance & device can not be over emphasized lubricants reduce friction & wear between rubbing parts, thereby enhancing their life. The basic object of this book is to furnish comprehensive information about nearly all prominent types of Lubricants, Greases & Petrochemicals. This book covers formulae, processes of various petroleum items. ₹1995/- US\$150-



Industrial Chemicals Technology Hand Book

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



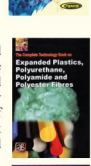
Lubricating Oils, Greases and Petroleum Products Manufacturing Handbook

The major content of the book are Food and Technical Grade White Oils and Highly Refined Paraffins, Base Oils from Petroleum, Formulation of Automotive Lubricants, Lubricating Grease, Aviation Lubricants, Formulation and Structure of Lubricating Greases, Marine Lubricants, Industrial Lubricants, Refining of Petroleum, Lubricating Oils, Greases and Solid Lubricants, Refinery Products, Crude Distillation and Photographs of Machinery with Suppliers Contact Details. Rs.1475 US\$150



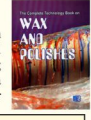
The Complete Technology Book on Expanded Plastics, Polyurethane, Polyamide and Polyester Fibres

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



The Complete Technology Book on Wax and Polishes

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



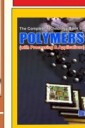
Handbook of FINE CHEMICALS, VITAMINS, AMINO ACIDS AND PROTEINS

Rs.1450 US\$150



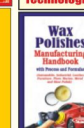
The Complete Technology Book on POLYMER (with Processing & Applications)

Rs.1100 US\$125



Handbook on Pet Film and Sheets, Urethane Foams, Flexible Foams, Rigid Foams, Specialty Plastics, Stretch Blow Moulding, Injection Blow Moulding, Injection and Co-Injection Preform Technologies

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Wax Polishes Manufacturing Handbook with Process and Formulae (Automobile, Industrial, Leather, Furniture, Floor, Marine, Metal and Shoe Polish)

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DAIRY PRODUCTS, POULTRY INDUSTRIES

The Complete Technology Book On Dairy & Poultry Industries (With Farming & Processing) 2nd Revised Edition

The first book of its kind which cover complete details of dairy poultry farming, processing, how to feed cows, birds in dairy and poultry, kind of diseases and their cure and other information related to farming. ₹1275 US\$125



MODERN TECHNOLOGY OF MILK PROCESSING & DAIRY PRODUCTS 4th Rev. Ed.

This book is devoted solely to milk and its products. The book deals with processes, formulae, project profiles, details of plant machinery and raw materials with their resources etc. of various dairy products. ₹1475 US\$150



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

Rabbit farming is no doubt very profitable wing to their short generation interval and their rapid prolificacy. The large demand for animal protein and fibre, the future for sheep meat and wool seems to be assured. Sheep rearing is the major source of livelihood to small and marginal farmers and landless labourers in hilly areas, arid and semi-arid region of India. Goat was believed to be the earliest ruminant, among livestock, species, to be domesticated by man in around 7600 B.C. probably due to its multipurpose utility to the human beings. Fish is a good source of animal proteins. Man has realized its importance from the very inception of the evolution of the human race. ₹1100 US\$125





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Entrepreneur 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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EDITOR

AJAY KUMAR GUPTA

D.M.S., M.B.A.

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ASSOCIATE EDITOR

P. K. TRIPATHI

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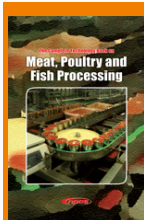
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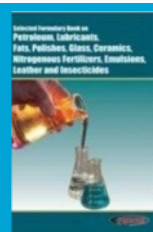
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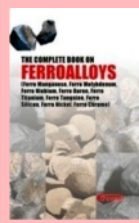
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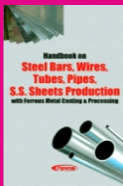
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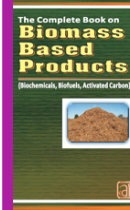
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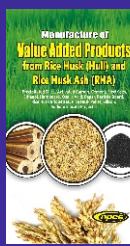
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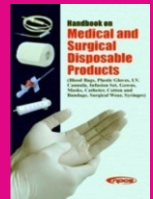
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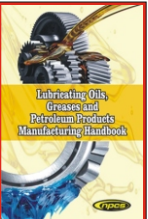


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Fiberglass Wool Ceiling Tiles

A ceiling tiles is a secondary ceiling, hung below the main (structural) ceiling. It may also be referred to as a drop ceiling, T-bar ceiling, false ceiling, suspended ceiling, grid ceiling, drop in ceiling, drop out ceiling, or ceiling tiles and is a staple of modern construction and architecture in both residential and commercial applications.

Effective building design requires balancing multiple objectives: aesthetics, acoustics, environmental factors, and integration with the building's infrastructure not to mention cost of construction as well as long-term operation costs.

Presently, they are increasingly being preferred over their alternatives due to their reduced environmental footprint, advantage of waste logistics and recyclability. During 2016-2020, the global ceiling tiles market grew at a CAGR of around 5.3%. As a whole there is a good scope for new entrepreneur to invest in this business.

Dal Mill (Roasted Gram Split, Dal & Chana)

India is bound to be global leader in terms of production and consumer of pulses. The various pulses are part of the normal diet of all vegetarians and are also used frequently by non-vegetarians too. They are the main sources of protein. The important dals in the country are Chana, Moong, Urad, Moth, tur dal and Masoor, Matar etc. Pulses being the most common diet part of Indian families, need to be given the due importance in the form of production of pulse grains in the farms is also likely to see a break through.

India pulses market reached a volume of 27.5 Million Tons in 2019. A significant share of the Indian population are vegetarians and pulses represent the main source of proteins in their diets. Besides proteins, pulses are also a good source of carbohydrates, vitamins, min-

PROJECT COST ESTIMATE CAPACITY

Capacity : 3000 Sq. Mtr. Per Day
 Plant & Machinery : ₹ 32 Lakhs
 Cost of Project : ₹ 213 Lakhs
 Rate of Return : 26%
 Break Even Point : 62%

PROJECT COST ESTIMATE CAPACITY

Capacity : 1500 Nos. Per Day
 Plant & Machinery : ₹ 230 Lakhs
 Cost of Project : ₹ 680 Lakhs
 Rate of Return : 30%
 Break Even Point : 62%

PROJECT COST ESTIMATE CAPACITY

Annagiri Roasted Gram Split : 6.5 MT Per Day
 Mosambi Roasted Gram Split : 6.5 MT Per Day
 Radhe Roasted Gram Split : 6.5 MT Per Day
 Mahabaleshar Roasted Gram Split : 6.5 MT Per Day
 Kala Chana : 6.5 MT Per Day
 Chana Dal : 7.5 MT Per Day
 Plant & Machinery : ₹ 138 Lakhs
 Cost of Project : ₹ 909 Lakhs
 Rate of Return : 27%
 Break Even Point : 53%

erals, fatty acids, dietary fibres, etc. Moreover, India's large consumer base also represents a major driver for the pulses market. From a population of 1.3 Billion in 2018, the Indian population is expected to exceed 1.5 Billion by 2030.

Helmet Manufacturing

A motorcycle helmet is a type of helmet (protective headgear) used by motorcycle riders. The primary goal of a motorcycle helmet is motorcycle safety-to protect the rider's head during impact, thus preventing or reducing head injury and saving the rider's life. Some helmets provide additional conveniences, such as ventilation, face shields, ear protection, intercom etc. Motorcycle helmet is the most important protective gear one can wear while riding a motorcycle.

India Two-wheeler helmet market is projected to grow during 2020-2024. India two-wheeler helmet is forecast to grow at a CAGR of around 25% through 2022. Innovation such as carbon fiber helmet, air cooled technology in helmets, helmets with anti-glare visor, push button and helmet lock features, increasing number of helmet manufacturers and safety rules.

Weaving of Fiberglass Fabric for Composites of Domestic as well as Export Markets (using e Class Imported Yarns)

Fiberglass is a popular material that is extremely versatile and is used in many aspects of or everyday lives. Next time you get on a plane or go down a waterslide or turn on the television you will be more knowledgeable about the construction as well as the amazing contributions of fiberglass.

The global fiberglass market is projected to grow from USD 11.5 billion in 2020 to USD 14.3 billion by 2025, at a CAGR of 4.5% from 2020 to 2025. The major reasons for the growth of the fiberglass market include extensive use of fiberglass in the

PROJECT COST ESTIMATE CAPACITY

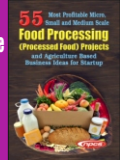
Fiberglass Fabric : 3,445.6 Mtrs. Per Day
 Plant & Machinery : ₹ 827 Lakhs
 Cost of Project : ₹ 1380 Lakhs



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construction & infrastructure industry and the increased use of fiberglass composites in the automotive industry are driving the growth of fiberglass market. Thus, due to demand it is best to invest in this project.

Ply Board from Poplar & Eucalyptus Wooden Logs

Ply Board is wooden made board or wooden like raw materials largely used for making ply board. There is large use of ply board nowadays in making wooden base furniture. Poplar and Eucalyptus Wooden Logs can be used for making ply board. Plywood is a building material consisting of veneers (thin wood layers or plies) bonded with an adhesive.

Global Plywood Industry reach 5 Billion by 2027, growing at a CAGR of 7.9% over the period 2020-2027. Hardwood, one of the segments analyzed is projected to grow at an 8.2% CAGR to reach US\$58.8 Billion by the end of the analysis period. As a whole there is a good scope for new entrepreneur to invest in this business.

PROJECT COST ESTIMATE CAPACITY	
Poplar Ply Board Size: 8' x 4' Thickness: 18mm	: 250.0 Nos. Per Day
Eucalyptus Ply Board Size: 8' x 4' Thickness: 18mm	: 250.0 Nos. Per Day
Plant & Machinery	: ₹ 260 Lakhs
Cost of Project	: ₹ 536 Lakhs
Rate of Return	: 28%
Break Even Point	: 63%

Wood Plastic Composite (WPC)

Wood plastic composite is good to solve the problem arises in the environment. There is scope of use agricultural waste product. In this case we will use waste polypropylene or polyethylene, or it may be used virgin polypropylene or polyethylene, waste wood floor. Rice husk, plastic additives like (DOP, DBP etc.).

The wood-plastic composites market is projected to reach USD 5.84 Billion by 2021, at a CAGR of 12.4% from 2016 to 2021. Based on application, the wood-plastic composites market has been segmented into building & construction products, automotive components, industrial & consumer goods, and others. Based on type, the market has been segmented into polyethylene (PE), polyvinylchloride (PVC), polypropylene (PP), and others. Entrepreneurs who invest in this project will be successful.

PROJECT COST ESTIMATE CAPACITY	
Capacity	: 10,000,000 Sq.Ft. Per Annum
Plant & Machinery	: ₹ 142 Lakhs
Cost of Project	: ₹ 687 Lakhs
Rate of Return	: 28%
Break Even Point	: 57%

English Willow Cricket Bat

English willow bats with minor visual defects such as grains which are not perfectly straight, or discolourations, are also cheaper. The willow used in making bats in Kashmir was brought in by the British, who

ruled India, during the 1820s.

The industry combines traditional tools with modern technology. Some of the districts where these bats are made in Kashmir are Anantnag, Baramula, and Pahalgam. Further, with projected demand of cricket bats expected to increase to 4 million per annum in the global market by the year 2020, the future of this industry looks very promising because the Kashmir willow comprises about 60 percent of the

PROJECT COST ESTIMATE CAPACITY	
Capacity	: 6.7 Nos. Per Day
Plant & Machinery	: ₹ 8 Lakhs
Cost of Project	: ₹ 22 Lakhs
Rate of Return	: 29%
Break Even Point	: 81%

total bats manufactured in India. Additionally, with a compound growth rate of about 8.4 percent, the potential turnover from the export of this commodity is projected to increase to 100 million per annum in the year 2030. As a whole there is a good scope for new entrepreneur to invest in this business.

Maize Processing Unit (Starch, Glucose, Germs, Fibres, Gluten & Steep Water)

Globally, maize is known as queen of cereals because it has the highest genetic yield potential among the cereals.

Maize and maize products have numerous industrial uses such as in adhesives, explosives and soaps, and for textile sizing, etc. Maize starch is employed in the manufacture of asbestos, ceramics, dyes, plastics, oil cloth, linoleum, paper, and paper boards, and in textiles, mining, deep oil drilling, and cosmetic and pharmaceutical industries.

India corn starch market is estimated to be valued at 1.37 Billion in 2018 and is estimated to grow at a CAGR of 3.9% during the forecast period 2019–2024. Thus, due to demand it is best to invest in this project.

PROJECT COST ESTIMATE CAPACITY	
Maize Starch	: 30 MT Per Day
Liquid Glucose	: 30 MT Per Day
Gluten	: 4.50 MT Per Day
Germs	: 6 MT Per Day
Fiber	: 14 MT Per Day
Steep Water	: 6 MT Per Day
Plant & Machinery	: ₹ 3206 Lakhs
Cost of Project	: ₹ 4496 Lakhs
Rate of Return	: 21%
Break Even Point	: 49%

Methyltetrahydrophthalic Anhydride (MTHPA)

Methyl tetrahydrophthalic anhydride, one of the MTHPA anhydride referred to as MTHPA, MeTHPA, has two isomers, namely 4-methyltetrahydrophthalic anhydride and 3-methyltetrahydrophthalic anhydride, having a melting point of 65°C and 63°C. It is rarely used as a curing agent alone. The actual commodity is a liquid mixture that isomerized to various isomers.

PROJECT COST ESTIMATE CAPACITY	
Capacity	: 16,000 Kgs Per Day
Plant & Machinery	: ₹ 234 Lakhs
Cost of Project	: ₹ 897 Lakhs
Rate of Return	: 28%
Break Even Point	: 57%

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

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The Methyltetrahydrophthalic Anhydride (MTHPA) market will depend on market share (sales and revenue) of key companies and growth opportunities of the Methyltetrahydrophthalic Anhydride (MTHPA) market by type, application, key manufacturers and key regions and countries. The market is expected to reach \$14.19 billion in 2025 at a CAGR of 5%. Entrepreneurs who invest in this project will be successful.

Packaged Drinking Water with PET Bottle

Bottled water is drinking water (e.g., well water, distilled water, mineral water, or spring water) packaged in plastic or glass water bottles. Bottled water may be carbonated or not. Sizes range from small single serving bottles to large carboys for water coolers. Bottled water is the most dynamic market of all the food and beverage industry.

The market is expected to reach INR ~403.06 Bn by the end of 2023, from its current value of INR ~160 Bn, expanding at a compound annual growth rate (CAGR) of ~20.75% from 2018. Based on volume, the market is likely to reach ~35.53 Bn liters by 2023, expanding at a CAGR of ~18.25% from 2018 to 2023. As a whole there is a good scope for new entrepreneur to invest in this business.

PROJECT COST ESTIMATE CAPACITY

Packaged Drinking Water : 28,800 Bottles per Day	
200 ml Size Bottle	
Packaged Drinking Water 500 ml Size Bottle	: 28,800 Bottles per Day
Packaged Drinking Water : 38,400 Bottles per Day	
1000 ml Size Bottle	
Plant & Machinery	: ₹ 306 Lakhs
Cost of Project	: ₹ 632 Lakhs
Rate of Return	: 24%
Break Even Point	: 51%

Adhesive (Fevicol Type)

Fevicol type adhesives come under the category of synthetic resins and latex adhesives are made from polyvinyl acetate is a thermoplastic, odourless, tasteless, non-toxic, essentially clear and colourless resin. It has a non-crystalline and relatively branched rather than linear structure. Most grades of resin have a somewhat broad molecular weight distribution.

PROJECT COST ESTIMATE CAPACITY

Capacity	: 1.0 MT per Day
Plant & Machinery	: ₹ 47 Lakhs
Cost of Project	: ₹ 165 Lakhs
Rate of Return	: 27%
Break Even Point	: 62%

Over the last few years, the adhesive business has seen global players setting up new capacities in India. With customs duty nearing ASEAN levels, competition will further intensify from imports as well as the low cost local players. Adhesives market

in India is projected to cross US\$ 1.3 billion by 2025. The market size of all types of adhesives is very large and growing. Of this, the premium products account for some 45%. Quantitatively, the overall market size is growing annually at 11%. Thus, due to demand it is best to invest in this project.

Neem Oil (Cold Process)

Neem oil is obtained from the seeds of neem tree. Utilization of neem seeds is to be set with the problem of organization of systematic collection and crushing of seeds. Neem oil is usually opaque and bitter but it has recently been shown that it can be processed into non bitter edible oil with 50% oleic acid and 15% linoleum acid. 'Neem oil extractives', a waste from neem oil refining

has been found to be effective mosquitolarvicide. The material acts as instant killer of the first in star larvae of Culex fatigans at 0.04% concentration whereas at lower concentrations it had delayed toxicity.

Azadirachtin, an active compound derived from neem seeds and other parts has natural insecticidal properties. It is potentially a substitute for synthetic pesticides used in crop production. Projected growth in global bio-pesticide market at CAGR of 15.8 per cent from 2012 to 2017 could be a prospective growth driver for the neem products in future. As a whole there is a good scope for new entrepreneur to invest in this business.

PROJECT COST ESTIMATE CAPACITY

Neem Oil	: 150 Kgs/Day
Deoil Cake as by product	: 1680 Kgs/Day
Plant & Machinery	: ₹ 23 lakhs
Cost of Project	: ₹ 51 lakhs
Rate of Return	: 27%
Break Even Point	: 67%

Bitumen

- Polymer Modified Bitumen
- Bitumen Emulsion • Cutback Bitumen

Bitumen is an important low-cost thermoplastic which finds many applications as a building and engineering material; however, bitumen has poor mechanical properties as it is hard and brittle in cold environments and soft and fluid in hot environments. The primary aim of the modification of bitumen for use in structural layers is to increase the resistance of these layers to permanent deformation at high road temperatures without compromising the properties of these layers over the rest of the prevailing temperature range.

PROJECT COST ESTIMATE CAPACITY

Polymer Modified Bitumen	: 4.0 MT Per Day
Bitumen Emulsion	: 8.0 MT Per Day
Cutback Bitumen	: 8.0 MT Per Day
Plant & Machinery	: ₹ 95 Lakhs
Cost of Project	: ₹ 540 Lakhs
Rate of Return	: 30%
Break Even Point	: 80%

Asia Pacific is expected to be the fastest-growing market and is expected to witness gains at a CAGR of 3.0% from 2016 to 2024 in terms of volume. Government initiatives to construct roads to access rural areas is

projected to propel the demand for bitumen over the forecast period. As a whole there is a good scope for new entrepreneur to invest in this business.

Tissue Paper from Recycled Paper

Tissue paper or simply tissue is a light weight paper or, light crepe paper. Tissue can be made from recycled paper pulp. Tissue is a category comprising products made from low grammage, dry creped and some non-creped papers such as toilet paper, kitchen towels, napkins, facials, handkerchiefs, hand towels and wipes.

India tissue and wipes products market is one of the growing categories in hygiene

PROJECT COST ESTIMATE CAPACITY

Tissue Paper	: 20 MT/Day
Plant & Machinery	: ₹ 410 Lakhs
Cost of Project	: ₹ 986 Lakhs
Rate of Return (ROI)	: 27%
Break Even Point (BEP)	: 56%

industry of the country. Tissue paper market is segmented mainly into paper napkins, toilet papers, facial tissues and other tissue based products. According to estimates from market research company Euromonitor, the India tissue paper and hygiene product market will grow significantly until 2020. During this time, the market size will increase from current 57.8 billion Rupee (\$870 million) to 100 billion Rupee (\$1.5 billion). Thus, due to demand it is best to invest in this project.

Layer Poultry Farming

Layer poultry farming means raising egg laying poultry birds for the purpose of commercial egg production. Layer chickens are such a special species of hens, which need to be raised from when they are one day old. They start laying eggs commercially from 18-19 weeks of age. They remain laying eggs continuously till their 72-78 weeks of age. They can produce about one kg of eggs by consuming about 2.25 kg of food during their egg laying period.

India is third largest egg production and fifth in chicken meat producer in the world. India has a population of 1.2 billion and 50% of India's workforce

and has about 50% MARKET share. In terms of installations, Germany leads the world with close to 50% of installations world over.

In India, there is about 1.4 GW of module manufacturing capacity and this is expected to increase in the future since the solar PV segment is one part of the entire value chain where the barriers to entry is relatively low. As a whole entrepreneurs it is your best investment.

HDPE Jumbo Bags (Flexible Intermediate Bulk Containers) FIBCS

The jumbo fabrics can withstand huge capacities ranging from 250 kgs to 2000 kgs. The bags facilitate both manual filling and hopper feeding at filling as well as discharge points; the ability of UV stabilization makes these Jumbo fabrics more highly appreciable. The jumbo bags in different sizes and dimensions in customized ranges, high space availability makes these bags to store bulk materials neatly and effectively. Jumbo bags are big bags used for packing bulk materials of different types. These big bags in different specifications and grades based on the requirements of our customers and packaging needs.

Its volume was around 6.6 million tons in 2015, which is expected to grow to more than 16.7 million tons by 2020. Globally, polypropylene and polyethylene are the widely used plastics for the production of FIBCS. Increased demand for bio-based products has shifted the focus of manufacturers from synthetic to bio-based polypropylene for the production of FIBCS. This facilitates the development of new technologies and ensures a high quality product.

PROJECT COST ESTIMATE CAPACITY

Egg Production (Packed 30 Eggs per Tray)	: 25000 Nos./Day
Spent Hens	: 83 Nos./Day
Plant & Machinery	: ₹ 57 Lakhs
Cost of Project	: ₹ 239 Lakhs
Rate of Return	: 28%
Break Even Point	: 35%

is in agriculture. The total egg production has increased from 27.33 Billion during 2015-17 (Rainy) to 29.09 Billion during 2016-18 (Rainy) registering a growth 6.42%. As against the targeted production of 87.05 Billions of eggs during 2016-18, the total estimated production in two seasons, summer and rainy, is 55.11 Billion showing an achievement of 63.31%. As a whole there is a good scope for new entrepreneur to invest in this business.

PROJECT COST ESTIMATE CAPACITY

HDPE Jumbo Bags	: 28800 Nos./Day
Plant & Machinery	: ₹ 106 Lakhs
Cost of Project	: ₹ 748 Lakhs
Rate of Return	: 34%
Break Even Point	: 58%

Solar Panel & Electronic Toys

A solar panel is a collection of solar cells. Lots of small solar cells spread over a large area can work together to provide enough power to be useful. The more light that hits a cell the more electricity it produces. Solar 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. A single solar module can produce only a limited amount of power most installations contain multiple modules. A photovoltaic system typically includes a panel or an array of solar modules, an inverter, and sometimes a battery and/or solar tracker and interconnection wiring.

The PV MARKET has been upward trend for years now. The market is expected to continue to grow until 20. The JNNSM (Jawaharlal Nehru National Solar Mission) target of 20 GW of installation by 2022 and also proactive policies from states like Gujarat are the key drivers for the growth of the solar sector in India.

Globally, China dominates the cell and module produc-

PROJECT COST ESTIMATE CAPACITY

Solar Panel	: 25,000 Units/Annum
Electronic Toys	: 1,500,000 Units/Annum
Plant & Machinery	: ₹ 498 Lakhs
Cost of Project	: ₹ 1348 Lakhs
Rate of Return	: 29%
Break Even Point	: 50%

Truck Body Building

A truck or lorry is a motor vehicle designed to transport cargo. Trucks vary greatly in size, power, and configuration; smaller varieties may be mechanically similar to some automobiles. Commercial trucks can be very large and powerful, and may be configured to mount specialized equipment, such as in the case of fire trucks and concrete mixers and suction excavators.

Already at 1.31 billion, by 2027 India's population will be the largest in the world, at over 1.4 billion. Growth means urbanisation, and urbanisation requires 'stuff'. As small villages develop into large, and as people move from rural to urban locations, so demand for 'stuff' will increase. Great news for truck fleets, and the OEMs who supply those stuff-hauling fleets; but the changes to trucking in India over the next decade will be seismic in proportion. Just about the only certainty is that 'Trucking India' in 2027 will look very different from its 2017 ancestor. Entrepreneurs who invest in this project will be successful.

PROJECT COST ESTIMATE CAPACITY

Truck Body Building	: 20 Nos./Day
Plant & Machinery	: ₹ 362 Lakhs
Cost of Project	: ₹ 1709 Lakhs
Rate of Return	: 31%
Break Even Point	: 56%

Sugar Candy (Soft & Hard Boiled)

Candy or Sweet is the most popular type of confectionery over the world, and there is certainly something about this unique product that holds many mysterious qualities. Generally candies

are available in fruit based flavors or Milk based flavor and sometimes with centre filling also. The confectionery category includes products such as chocolate, gum, sugar confectionery, gummies/jellies, hard candy, toffee and fudge. The main reasons for purchasing are convenience, passive health, age, choice and pleasure. The most popular flavour groups are brown flavours, fruit, nuts, mints & menthols and dairy flavours.

The Indian confectionery market includes sugar-boiled confectionery, hard-boiled candies, toffees and other sugar-based candies. Sugar boiled confectionery has penetrated an estimated 17% of the households only, suggesting a large potential for growth. Considering the 25% penetration in

PROJECT COST ESTIMATE CAPACITY

Hard Boiled Candy : 18 MT/Day
Soft Candy : 14 MT/Day
Plant & Machinery : ₹ 547 Lakhs
Cost of Project : ₹ 1060 Lakhs
Rate of Return : 29%
Break Even Point : 50%

the urban market, the confectionery industry could hope to be in for more promising future. The total volume of the sugar-boiled confectionery market in the organized sector (comprising plain/hard boiled candies, toffees, eclairs and gums) is around Rs. 23 bn. Add to this the unorganized sector and the market for all types of confectionery is of the order of Rs. 38 bn which increased by 15% over that of the preceding year. Thus, due to demand it is best to invest in this project.

Stabilized Insoluble Sulfur

Insoluble sulfur is, by definition, sulfur which is insoluble in carbon disulfide. This form of sulfur is generally understood to be polymeric in nature, the polymer chains being made up of up to several thousand sulfur atoms. Insoluble sulfur is distinguished from soluble sulfur, which is crystalline in form. In this industry, sulfur is used as a cross linking (vulcanizing) agent in rubber compound formulations. The term "insoluble sulfur" is usually applied to that sulfur fraction which is insoluble in carbon disulphide. The treatment of sulfur containing an appreciable insoluble sulfur content to the end that the sulfur does not revert readily to the soluble form.

Worldwide markets for Stabilized Insoluble Sulfur from 2011-2015 and provides extensive market forecasts 2016-2021 by region/ country and subsectors. It covers the key technological and market trends in the Stabilized Insoluble Sulfur market and further lays out an analysis of the factors influencing the supply/demand for Stabilized Insoluble Sulfur.

PROJECT COST ESTIMATE CAPACITY

Stabilized Insoluble Sulfur : 11 MT/Day
Plant & Machinery : ₹ 304 Lakhs
Cost of Project : ₹ 939 Lakhs
Rate of Return : 27%
Break Even Point : 62%

Soda Ash (Light & Soda Ash Dense)

Soda ash, the trade name for sodium carbonate (Na₂CO₃), is a white, anhydrous, powdered or granular material. It is an essential raw material used in the manufacturing of glass, detergents chemicals and other industrial products. Today, "natural soda ash" refined from the mineral trona is regarded as the standard for quality and purity and is also processed from sodium-carbonate-bearing brines. Sodium carbonate (Na₂CO₃) also known as washing soda or soda ash, is a sodium salt of carbonic acid. Most commonly occurs as a crystalline heptahydrate, which readily effloresces to form a white powder, the monohydrate.

The global soda ash industry is undergoing significant

structural change, characterised by shifting capacity, the impact of rising costs for synthetic soda ash producers and developments in its core markets. Changes in soda ash

markets, including the way some countries export wine without bottles, are setting new trends in the worldwide soda ash industry. Worldwide average demand for soda ash is expected to increase by 3.3% per year between 2014 and 2024, IHS' analysis shows, driven by increased consumption in the recovering construction and automotive industries, with China, the world's largest soda ash producer, contributing almost 4% year-on-year growth to 2024. Which facilitates the development of new technologies and ensure a high quality product.

PROJECT COST ESTIMATE

CAPACITY
Soda Ash Light : 1000 MT/Day
Soda Ash Dense : 666 MT/Day
Plant & Machinery : ₹ 1969 Lakhs
Cost of Project : ₹ 7236 Lakhs
Rate of Return : 31%
Break Even Point : 67%

Fish Flavoured Chips

A snack is a small service of food and generally eaten between meals. Snacks come in a variety of forms including packaged snack foods and other processed foods, as well as items made from fresh ingredients at home. Snack foods are typically designed to be portable, quick, and satisfying. Processed snack foods, as one

PROJECT COST ESTIMATE CAPACITY

Fish Flavoured Chips : 1000 Kg/Day
Plant & Machinery : ₹ 46 Lakhs
Cost of Project : ₹ 252 Lakhs
Rate of Return : 26%
Break Even Point : 64%

form of convenience food, are designed to be less perishable, more durable, and more portable than prepared foods. A chip (American English and Australian English) or crisp (British English) is any type of snack food in the form of a crisp, flat or slightly bowl shaped, bite-sized unit. Puffed cheese snacks do not count.

The Indian chips market, sized at Rs 7,000-7,500 crore according to Euro monitor, has been growing at a robust pace of 15% over the past five years and going forward, is expected to grow at a similar pace. Growth will come from rising disposable incomes, changing lifestyles, product innovations and strengthening of distribution to have better selling opportunities in lower-tier cities and rural areas, the report goes on to state. Entrepreneurs who invest in this project will be successful.

Bentonite Clay Granules

Bentonite is clay generated frequently from the alteration of volcanic ash, consisting predominantly of smectite minerals, usually montmorillonite. Other smectite group minerals include hectorite, saponite, beidelite and nontronite. Bentonite presents strong colloidal properties and its volume increases several times when coming into contact with water, creating a gelatinous and viscous fluid. The special properties of bentonite (hydration, swelling, water absorption, viscosity, thixotropy) make it a valuable material for a wide range of uses and applications.

Bentonite Market size was over USD 1.1 billion in 2017 and industry expects consumption above 25 million tons by 2024. U.S. Sodium Bentonite Market

PROJECT COST ESTIMATE

CAPACITY
Bentonite Clay Granules : 144 MT/Day
Plant & Machinery : ₹ 63 Lakhs
Cost of Project : ₹ 445 Lakhs
Rate of Return : 27%
Break Even Point : 52%

Size, By Application, 2017 & 2024, (Kilo Tons). This facilitates the development of new technologies and ensures a high quality product.

Agar Agar

Agar-agar is a mixture of Polysaccharides (agarose+agaropectine) of a high molecular weight. Agar-agar belongs to the family of galactan polysaccharides. Agar has been used as an ingredient in desserts throughout Asia, and also as a solid substrate to contain culture media for microbiological work. Agar can be used as a laxative, an appetite suppressant, a vegetarian substitute for gelatin, a thickener for soups, in fruit preserves, ice cream, and other desserts, as a clarifying agent in brewing, and for sizing paper and fabrics.

PROJECT COST ESTIMATE CAPACITY

Agar Agar	: 500 Kgs./Day
Plant & Machinery	: ₹ 211 Lakhs
Cost of Project	: ₹ 697 Lakhs
Rate of Return	: 27%
Break Even Point	: 43%

The global agar market size was estimated at USD 255.18 million in 2018 and is anticipated to grow at a CAGR of 5.1% from 2018 to 2023. The exponential growth in the usage of this product is attributed to its various functional and health benefits. It contains 80% fiber and can be used as an appetite suppressant. As a whole any entrepreneur can venture in this project without risk and earn profit.

Microcrystalline Cellulose (Pharmaceutical Grade)

Microcrystalline cellulose (MCC) is a term for refined wood pulp and is used as a texturizer, an anti-caking agent, a fat substitute, an emulsifier, an extender, and a bulking agent in food production. The most common form is used in vitamin supplements or tablets. It is also used in plaque assays for counting viruses, as an alternative to carboxymethyl cellulose.

Microcrystalline Cellulose Market size is projected to grow from USD 885.1 million in 2018 to USD 1,241.4 million by 2023, at a CAGR of 7.0% between 2018 and 2023 and is forecast to exceed USD 1.2 billion by 2024. Which facilitates the development of new technologies and ensure a high quality product.

PROJECT COST ESTIMATE CAPACITY

Microcrystalline Cellulose (Pharmaceutical Grade)	: 5 MT/Day
Plant & Machinery	: ₹ 74 Lakhs
Cost of Project	: ₹ 277 Lakhs
Rate of Return	: 29%
Break Even Point	: 78%

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%

Porcelain Insulator

Electricity play a vital role in the development and growth of Agriculture and Industry, as it is a high priority item for all the developing or developed nations. For the generation and distribution of Electricity, High Tension Insulators are an important adjuncts.

Insulators have very few free electrons and do not transfer electrical energy well. An electrical insulator is a material whose internal electric charges do not flow freely, and therefore make it nearly impossible to conduct an electric current under the influence of an electric field. This contrasts with other materials, semiconductors and conductors, which conduct electric current more easily. The property that distinguishes an insulator is its resistivity; insulators have higher resistivity than semiconductors or conductors. The end type insulator is used on all distribution lines and on low voltage transmission lines.

PROJECT COST ESTIMATE CAPACITY

Insulator (HT & LT)	: 3,500 MT/Annum
Plant & Machinery	: ₹ 131 Lakhs
Cost of Project	: ₹ 1010 Lakhs
Rate of Return	: 25%
Break Even Point	: 51%

World is experiencing a tremendous expansion of industrial and real estate sectors and accompanied by a massive increase in the need for electric power energy due to the essential role of the electric power in the development and growth in all areas of life. This huge demand of the electrical power bodes market demand for large investments in the field of electric power and its support services industry. Thus, as an entrepreneur this project offers an exciting opportunity to you.

Goat Rearing & Breeding

Goats, one of the world's smallest domesticated livestock, have been actively managed for food and fiber earlier and longer than cattle and sheep. India possesses the largest goat population and ranks first in the world. In the prevailing socio-economic conditions in India where per capita holding is hardly 0.2 ha, goat rearing becomes an inseparable counterpart of mixed farming system. Goat rearing has been recommended as the best choice for the rural people in developing countries because of their wider adaptability, low investment, high fertility and fecundity, low feed and management needs, high feed conversion efficiency, quick pay off and low risk involved.

The goat is multipurpose animal to provide milk, meat, hair (fur) and manure for soil. The world population of goats is approximately 860 million, of which 94% are found in the developing countries. Africa and Asia account for about

81% of the total population in the developing countries, including a bewildering variety of breeds. Goat rearing is the backbone of economy of small and landless farmers in India. It is an insurance against crop failure and provides alternate source of livelihood to farmers all the year round. Goats play an important role in income generation, capital storage, employment generation and improving household nutrition. As a whole it is a good project for entrepreneurs to invest.

PROJECT COST ESTIMATE CAPACITY	
Goat Meat	: 31,320 Kgs/Annum
Goat Skin	: 2000 Nos/Annum
Goat Milk	: 360,000 Ltrs/Annum
Goat Manure	: 1440 MT/Annum
Plant & Machinery	: ₹ 50 Lakhs
Cost of Project	: ₹ 558 Lakhs
Rate of Return	: 12%
Break Even Point	: 42%

mustard/rape seed comes mainly from eastern and northern areas of the country. The arrival of this crop in the markets is in its peak period during March to May. The major centers of consumption of its oil are Kolkata, Bihar, Jharkhand and the northeastern areas like Assam, Tripura, Sikkim etc. Two forms of mustard oil are traded in the Indian market namely KacchiGhani and PakkiGhani (expeller oil).

The world production of rapeseed-mustard has been increasing at rapid rate in several countries largely in response to the continuing increase in demand for edible oils and its products. With global production touching 14-15 million tonne, it accounts for about 15 per cent of the world's total edible oil production and 30-35 per cent of India's total edible oil production. As a whole it is a good project for new entrepreneurs to invest.

Fractionation of Turpentine Oil

Turpentine is an essential oil obtained from pine trees. It is one of the most important substances with many applications, being widely used as a solvent in chemical industries, resins and as an ingredient in paints. Uttarakhand, Himachal, J & K, and Assam are extremely rich in pine forests. Highly purified α-pinene can be obtained by vacuum-fractional distillation of turpentine that has to reach 97% purity.

Pine oils are also widely utilized in cleaning & home products owing to their superior antibacterial and antiseptic properties. Other uses includes Ore-dressing Agent, Textile Degreaser, Bactericide, Fragrance, Others Customers are keen on specialized products as various applications require specific characteristics and ingredients.

Ready Mix Coating Powder
Used for Coating of Pharmaceuticals Tablets for Regular fill Coating and Functional Film Coating

In pharmaceutical drug delivery of solid oral dosage forms film coatings are frequently applied. The motivation for coating dosage forms range from cosmetic considerations (colour, gloss), improving the stability (light protection, moisture and gas barrier) and making it easier to swallow the tablet. In addition, functional coatings can be used to modify the drug release behaviour from the dosage form. A film coating is a thin polymer-based coat applied to a solid dosage form such as a tablet. The thickness of such a coating is usually between 20-100 µm. The Indian excipient market is expected to grow at the rate of 10-12 percent until 2020. The excipients are priced at 5-7 percent lesser in India v which facilitates the development of new technologies and ensure a high quality product.

PROJECT COST ESTIMATE CAPACITY	
Regular Film Coating Powder	: 400 Kgs/Day
Functional Film Coating Powder	: 400 Kgs/Day
Plant & Machinery	: ₹ 19 Lakhs
Cost of Project	: ₹ 172 Lakhs
Rate of Return	: 28%
Break Even Point	: 59%

PROJECT COST ESTIMATE CAPACITY	
Turpentine Oil	: 3,000,000 Ltr/Annum
Plant & Machinery	: ₹ 82 Lakhs
Cost of Project	: ₹ 425 Lakhs
Rate of Return	: 30%
Break Even Point	: 52%

Pine Oil (CAS 8002-09-3) Market is predicted to discover Vigorous Growth by 2021. Throughout the world every industry is spending a large amount in Research for future expansion. Growing consumer preference for natural products

has led to the development of innovative applications in personal care and cleaning products. Rapid industrialization and increasing disposable consumer income are the other major factors driving the market growth, mainly in developing countries such as China, India, Vietnam, and Thailand. Thus, as an entrepreneur this project offers an exciting opportunity to you.

Tailoring Chalk (Triangle Pattern)

Tailors' chalk is a square, circular or in the form of a triangular shaped product having a thickness of around 5mm. The product is used by the tailors for marking on clothes, so that the cloth can be cut according to the marked lines. Tailors' chalks are manufactured in white as well as in various colours to be suitable for marking on clothes of various colours. Tailor's chalk is traditionally a

PROJECT COST ESTIMATE CAPACITY	
Capacity	: 150,000 Kgs Per Annum
Plant & Machinery	: ₹ 18 Lakhs
Cost of Project	: ₹ 99 Lakhs
Rate of Return	: 26%
Break Even Point	: 57%

Mustard Oil

Mustard/Rapeseed oil is the third largest edible oil produced in the world after Soy oil and Palm oil. At a production level of 13-14 million tons, it accounts for about 12% of the total World's edible oil production. India is estimated to have a total mustard seed output of 5 million ton while oil is around 1.3 million tons.

The country also generates 2.4 million tons of oil cake. India is self-sufficient in mustard seed and oil as import and export of the commodity is almost non-existent.

Mustard oil is consumed wholly in the domestic market. The demand for the consumption of

PROJECT COST ESTIMATE CAPACITY	
Mustard Oil	: 3000 MT/Annum
Deoiled cake	: 5,700 MT/Annum
Plant & Machinery	: ₹ 83 Lakhs
Cost of Project	: ₹ 373 Lakhs
Rate of Return	: 27%
Break Even Point	: 60%

hard chalk used to make temporary markings on cloth or a garment.

Most of India's population was brought up with tailored clothes which restricted the garment industry to small-scale manufacturing of ready-to-stitch clothes. The expansion of the domestic clothing brands and the entry of international fashion brands in the early 90s have increased the demand of the ready-to-wear apparel that has been growing ever since. In the last few years, exports in India's garment industry

have grown rapidly due to an increase in orders from global buyers and willing investors in the sector. The garment industry is an important sector and a major contributor to the Indian economy. Most households depend on this sector directly or indirectly to earn a living. Many global retailers come to India because of the low production costs, low labour costs, and easy availability of fabric. Thus, due to demand it is best to invest in this project.

Fresh Dips

Fresh DIP is a creamy liquid that is served with food or used to prepare foods. Sauces add flavor and moisture to food and enhance the palatability of food. Few of the major sauces that are consumed in the US are ketchup, soy sauce, mustard sauce, tabasco, and sriracha. Dressings are used for garnishing and adding taste to food, especially salads, burgers, sandwiches, and other snack items. Some of the widely used dressings are mayonnaise, vinaigrettes, Italian dressings, and Russian dressings. Dips are creamy, paste-like dressings that are generally consumed with breads, nachos, French fries, vegetables, and salad.

The global sauces market is presumed to register a remarkable CAGR during the forecast period (2017-2023) owing to the incessant demand for flavor enhancers, asserts Market Research Future (MRFR). Sauces are referred to as fluids or semi-solid paste which are generally used as condiments across the food industry. Sauces are used as food additive as it enhances the flavor of food. They are also used as topping or dips and are popular for its rich taste. Sauces are low in saturated fat and sodium which further add to its nutritional value. Entrepreneurs who invest in this project will be successful.

PROJECT COST ESTIMATE CAPACITY

Fresh Dips 50 gms Size Pkts	: 1,500,000 Pkts Per Annum
Fresh Dips 20 gms Size Pkts	: 3,750,000 Pkts Per Annum
Plant & Machinery	: ₹ 30 Lakhs
Cost of Project	: ₹ 213 Lakhs
Rate of Return	: 30%
Break Even Point	: 59%

Electric PCC Poles

Pre-Stressed Cement Concrete Poles (PCC Poles) are highly durable and strong. PCC Poles are fabricated from excellent quality concrete material. These poles are used extensively in electrical industry, for establishing electrical connections and fittings. PCC poles are available in different dimensions and weight depending on the requirement. The poles are eco-friendly and require very low maintenance. The PCC poles have consistent material properties throughout their length. PCC poles are not susceptible to rot and decay. The PCC pole has the same strength throughout its service life. PCC poles are not susceptible to insect and animal attack.

The PCC pole market is expected to reach an estimated \$52.1 billion by 2024 with a CAGR of 4.1% from 2019 to 2024. The major growth drivers for this market are increasing power generation capacity, growing transmission and distribution infrastructure, and replacement of aging networks. Emerging trends which have a direct impact on the

PROJECT COST ESTIMATE CAPACITY

Electric Pre-stressed Concrete Cement Poles	: 24,000 Nos. Per Annum
Plant & Machinery	: ₹ 284 Lakhs
Cost of Project	: ₹ 487 Lakhs
Break Even Point	: 64%

dynamics of the market include wider use of transmission poles and increased usage of composite poles in transmission and distribution. As a whole there is a good scope for new entrepreneur to invest in this business.

Fruits & Vegetables Powder (Tomato, Onion, Mango, Pomegranate and Papaya Powder)

Tomato powder is a powder derived from tomato. It is made by turning fresh tomatoes into a slurry and further spray drying the slurry, creating a fine powder of uniform consistency. It is used to add tomato flavor in various dishes, has increased its application in various food processors. On the basis of application, tomato powder is segmented such as seasoning and savories, soup mixes, snack foods, curries and gravies, baby foods and others.

PROJECT COST ESTIMATE CAPACITY	
Tomato Powder	: 90,000 Kgs Per Annum
Onion Powder	: 36,000 Kgs Per Annum
Mango Powder	: 120,000 Kgs Per Annum
Pomegranate Powder	: 45,000 Kgs Per Annum
Papaya Powder	: 90,000 Kgs Per Annum
Plant & Machinery	: ₹ 69 Lakhs
Cost of Project	: ₹ 417 Lakhs
Rate of Return	: 27%
Break Even Point	: 57%

Onion powder is a processed form of dehydrated onion that can add the same flavor as fresh onions in a convenient manner. As a flavoring agent, onion powder is currently being used in a number of food and non-food products like- snacks, sauces, salads, soups, gravies, appetizers, seafood, meats, etc.

Mango powder is a fruity spice powder made from dried unripe green mangoes and is used as a citrusy seasoning. It is produced in India, and is used to flavor foods and add the nutritional benefits of mangoes when the fresh fruit is out of season. India is known for its exotic spices since the ancient times. These spices are mostly used for flavoring or tempering cooked food.

Pomegranate Powder is made of fresh pomegranate juices extracted by spray dried. In the production process strictly abide by the guidelines ensuring the food safety and quality. It is widely used for pharmaceutical industry, health care products, baby and infant products, snacks, solid beverage, ice-cream, all kinds of milk tea.

The papaya fruit is a large berry about 15–45 cm (5.9–17.7 in) long and 10–30 cm (3.9–11.8 in) in diameter. It is ripe when it feels soft (as soft as a ripe avocado or a bit softer) and its skin has attained an amber to orange hue. Papayas are a soft, fleshy fruit that can be used in a wide variety of culinary ways. Here we will explore more on the health benefits, uses, how to incorporate more of them into diet, and what nutritional value papayas have. Entrepreneurs who invest in this project will be successful.

Activated Charcoal from Wood

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

Wood activated charcoal market has been segregated based on product, application, end-user and region. The product segment comprises powdered and granular wood activated charcoal. Among these, powdered form will hold over two-thirds of the entire wood activated charcoal industry in 2024. As a whole there is a good scope for new entrepreneur to invest in this business.

PROJECT COST ESTIMATE CAPACITY

Capacity	: 1,200 MT Per Annum
Plant & Machinery	: ₹ 216 Lakhs
Cost of Project	: ₹ 498 Lakhs
Rate of Return	: 27%
Break Even Point	: 56%

Citric Acid Monohydrate

Citric acid monohydrate occurs as colourless crystals or as white, crystalline powder with a strongly acidic taste. It is efflorescent in dry air, very soluble in water, freely soluble in ethanol (96 %) and sparingly soluble in ether. Citric acid monohydrate is non-toxic and has a low reactivity. It is chemically stable if stored at ambient temperatures. Citric acid monohydrate is fully biodegradable and can be disposed of with regular waste or sewage. Citric acid (as either the monohydrate or anhydrous material) is widely used in pharmaceutical formulations and food products, primarily to adjust the pH of solutions.

The citric acid market is valued in the year 2017 and anticipated to grow at a CAGR 3.5% of from 2018-2023. High demand for citric acid in food and beverages used as an additive to preserve food is expected to be the driver for the industry growth. The growing demand of citric acid in manufacturing of products such as diabetic baked products, ice creams and other low fat dairy products are increasing demands for products and is expected to boost the demand. Thus, due to demand it is best to invest in this project.

PROJECT COST ESTIMATE CAPACITY

Capacity	: 3,000 MT Per Annum
Plant & Machinery	: ₹ 1204 Lakhs
Cost of Project	: ₹ 2166 Lakhs
Rate of Return	: 27%
Break Even Point	: 47%

The growing demand of citric acid in manufacturing of products such as diabetic baked products, ice creams and other low fat dairy products are increasing demands for products and is expected to boost the demand. Thus, due to demand it is best to invest in this project.

Camphor (Powder & Tablets)

Camphor (Cinnamomumcamphora) is a white, crystalline substance with a strong odor and pungent taste, derived from the wood of camphor laurel (Cinnamomumcamphora) and other related trees of laurel family. Camphor is obtained through steam distillation, purification and sublimation of wood, twigs and bark of the tree.

There are many pharmaceutical applications for camphor such as topical analgesic, antiseptic, antispasmodic, antipruritic, anti-inflammatory, anti-infective, rubefacient, contraceptive, mild expectorant, nasal decongestant, cough suppressant, etc. The Company is a chemicals manufacturer and has Terpenes and Synthetic Camphor as primary segments. Both segments of Company have performed well in F.Y. 2017-18. Company has achieved Net Sales Turnover of Rs. 244.24 Cr. with a Profit after Tax of Rs. 14.32 Cr. during F.Y. 2017-18. approximately 90% of the revenue

PROJECT COST ESTIMATE CAPACITY

Camphor Powder	: 2,500 Kgs Per Day
Camphor Tablets	: 2,500 Kgs Per Day
Plant & Machinery	: ₹ 231 Lakhs
Cost of Project	: ₹ 674 Lakhs
Rate of Return	: 28%
Break Even Point	: 61%

has come from Terpene Chemicals. Camphor is transparent solid flammable compound with odorant fragrance. Basically it is obtained from the tree i.e. Camphor laurel tree which is also known as the kapur tree a large evergreen tree found in Asia. Moreover, camphor can be produced synthetically from the turpentine oil derived from the resin. Sublimation properties give its several uses.

Castor Oil & Its Derivatives

The castor oil plant, Ricinus communis, is a species of flowering plant in the spurge family, Euphorbiaceae. Its seed is the castor bean which, despite its name, is not a true bean. Castor is indigenous to the south-eastern Mediterranean Basin, Eastern Africa, and India, but is widespread throughout tropical regions. The seeds contain between 40% and 60% oil that is rich in triglycerides of ricinoleic acid, 12 hydroxy oleic acid. The Indian variety of castor seed has an oil content of 48% but only 42% can be extracted. The seed contains ricin, a toxin, which is also present in lower concentrations throughout the plant and therefore castor oil is inedible.

India is known as the world leader in castor seed and oil production and leads the international castor oil trade. Castor oil production in this country usually fluctuates between 250,000 and 350,000 tons per year. Castor is one of the oldest cultivated crops; however, it contributes to only 0.15% of the vegetable oil produced in the world. The oil produced from this crop is considered to be of importance to the global specialty chemical industry because it is the only commercial source of a hydroxylated fatty acid.

PROJECT COST ESTIMATE CAPACITY

Castor Oil	: 7,500 MT Per Annum
Refined Castor Oil	: 2,100 MT Per Annum
Hydrogenated Castor Oil	: 900 MT Per Annum
De-hydrated Castor Oil	: 1,500 MT Per Annum
12-Hydroxy Stearic Acid	: 192 MT Per Annum
Sulfonated Castor Oil	: 192 MT Per Annum
Castor De-Oil Cake	: 21,000 MT Per Annum
Plant & Machinery	: ₹ 473 Lakhs
Cost of Project	: ₹ 1281 Lakhs
Rate of Return	: 32%
Break Even Point	: 58%

Prestressed Concrete Sleepers

Concrete sleepers are one of the most important applications of a railway track system. The impact load characteristics and ultimate load carrying capacity of a prestressed sleeper, but the fatigue life of prestressed concrete sleepers is limited. The railway sleeper is a vital railway component that lies between the rail and the ballast. The important functions of sleepers include the following: uniform transfer and distribution of loads from the rail foot to ballast bed, provision of an anchorage for the fastening system, and the restraining of lateral, longitudinal, and vertical movement of the rails.

The Indian Railways is among the world's largest rail networks. The Indian Railways network is spread over 115,000 km, with 12,617 passenger trains and 7,421 freight trains each day from 7,172 stations plying 23 million travelers and 3 million tones (MT)

PROJECT COST ESTIMATE CAPACITY

Capacity	: 500 Pcs. Per Day
Plant & Machinery	: ₹ 1472 Lakhs
Cost of Project	: ₹ 2245 Lakhs
Rate of Return	: 23%
Break Even Point	: 41%

of freight daily. During FY 2016-17, the passenger traffic of Indian Railways grew 0.8 per cent to 8,219.38 million, with passenger revenue growth of 4.6 per cent at Rs 47,449.75 crore (US\$ 7.37 billion).

Mahua Oil & Country Liquor

Madhuca latifolia or Madhuca indica commonly called as Mahua is such a kind of tree involved in day-to-day activity of tribal people. The Mahua tree is medium sized to large deciduous tree, usually with a short bole and a large rounded crown. Mahua flower are used as a food as well as used as an exchanger in tribal and rural areas. It is also used by wild animals as food.

India's country liquor (or arrack) industry, a commoditized and often chaotic business, is estimated at Rs 22,000 crore, with annualised volume sales of over 200 million cases. At one point, the country liquor market was projected at 2.5 times that of the more visible and heavily branded IMFL industry, but has been yielding ground to the latter rapidly in recent years. Country liquor continues to go strong in northern States like Uttar Pradesh, Haryana and Punjab, while Maharashtra is one of the bigger States in the west.

PROJECT COST ESTIMATE CAPACITY

Mahua Oil	: 3,000,000 Bottles Per Annum
Country Liquor (180 ml Size Bottle)	: 4,666,650 Bottles Per Annum
Country Liquor (375 ml Size Bottle)	: 2,880,000 Bottles Per Annum
Country Liquor (750 ml Size Bottle)	: 1,440,000 Bottles Per Annum
Mahua Deoiled Cake	: 4,110 Bottles Per Annum
Plant & Machinery	: ₹ 310 Lakhs
Cost of Project	: ₹ 1635 Lakhs
Rate of Return	: 29%
Break Even Point	: 50%

Biodegradable Plastic Pellets

- Corn Starch Thermoplastic & Polyvinyl Alcohol
- PBAT & Corn Starch Thermoplastic
- PLA + PBAT + Corn Starch Thermoplastic
- PLA + PBAT + CaCO3

Among the biodegradable polymers made from renewable resources, starch is probably the most renewable naturally biodegradable polymer source because it is versatile, cheap, and abundant. It shows compatibility with extrusion processes used in the manufacture of conventional films and in the presence of a plasticizer it produces a material with thermoplastic characteristics, known as thermoplastic starch (TPS). As a result, TPS is often blended with other polymers, such as poly (butylene adipate-co-terephthalate) (PBAT) and biodegradable aliphatic-aromatic copolyester, which combines biodegradability with other desirable physical properties.

The massive use of synthetic plastics, in particular in the food packaging area, has a great environmental impact, and alternative more ecologic materials are being required. Poly(lactic acid) (PLA) and starch have been extensively studied as potential replacements for non-degradable petrochemical polymers on the basis

PROJECT COST ESTIMATE CAPACITY

Biodegradable Plastic Pellets	: 1,200,000 Kgs Per Annum
Plant & Machinery	: ₹ 128 Lakhs
Cost of Project	: ₹ 407 Lakhs
Rate of Return	: 29%
Break Even Point	: 48%

of their availability, adequate food contact properties and competitive cost. Indeed, plastics represent the second most widely used material for food packaging applications, after paper and cardboard.

Plaster of Paris Emulsion

Paint is any pigmented liquid, liquefiable, or mastic composition that, after application to a substrate in a thin layer, converts to a solid film. It is most commonly used to protect, color, or provide texture to objects. Paint can be made or purchased in many colors—and in many different types, such as watercolor or synthetic. Paint is typically stored, sold, and applied as a liquid, but most types dry into a solid.

Water-based paints tend to be the easiest to clean up after use; the brushes and rollers can be cleaned with soap and water.

Proper disposal of left over paint is a challenge. Sometimes it can be recycled: Old paint may be usable for a primer coat or an intermediate coat, and paints of similar chemistry can be mixed to make a larger amount of a uniform color.

PROJECT COST ESTIMATE CAPACITY

Plaster of Paris Emulsion Paint (each Container 10 Kgs Size)	: 200 Packs Per Day
Plant & Machinery	: ₹ 20 Lakhs
Cost of Project	: ₹ 114 Lakhs
Rate of Return	: 31%
Break Even Point	: 73%

Optical Fiber Cables

An optical fiber (or fiber) is a glass or plastic fiber that carries light along its length. Fiber optics is the overlap of applied science and engineering concerned with the design and application of optical fibers. Optical fibers are widely used in fiber-optic communications, which permits transmission over longer distances and at higher bandwidths (data rates) than other forms of communications. Fibers are also used for illumination, and are wrapped in bundles so they can be used to carry images, thus allowing viewing in tight spaces. Specially designed fibers are used for a variety of other applications, including sensors and fiber lasers.

PROJECT COST ESTIMATE CAPACITY

Capacity	: 1,000,000 Kometers Per Annum
Plant & Machinery	: ₹ 1412 Lakhs
Cost of Project	: ₹ 8342 Lakhs
Rate of Return	: 32%
Break Even Point	: 43%

India optical fiber cables (OFC) market is projected to grow at a CAGR of 17% through 2023. Growth in the market is majorly expected to be backed by rising investments in OFC network infrastructure by the Indian government to increase internet penetration across the country, which is in line with the government's initiatives such as Smart Cities Vision and Digital India. The demand for optical fibre is bound to expand further in the near future as it enjoys a number of advantages, such as higher bandwidth, ability to transmit voice, video, graphic and written information and applications in cable television services.

Natural Bamboo Fiber

The natural bamboo fibers are ranked at the fifth place of the developed natural fibers after the cotton, the wool, the silk, and the linen. Bamboos are the member of a group of woody perennials evergreen to deciduous plants of the true grass family Poaceae, which is a subfamily of Bambusoideae, from the tribe Bambuseae. The total population of bamboos in the world is represented by 80-90 genera and about 1,000-1,500 species. Plant fibers have always been contributing explicitly to the economic prosperity and sustainability as they have application in almost every item used in our daily routine.

Fabrics and textiles play a vital role in meeting our basic clothing needs. Evidently, the textiles and fashion industry has emerged as a dominant sector in Indian industry. Fabrics are closely associated with every aspect of our lives right from birth till death. A wide variety of natural fibers are used in traditional handloom/textiles. Over the last few years, with the "go green" and "organic" consciousness taking over in India, we have a many eco-conscious fashion brands committed to being 100% organic and using natural fibers.

PROJECT COST ESTIMATE CAPACITY

Capacity	: 10 MT Per Day
Plant & Machinery	: ₹ 74 Lakhs
Cost of Project	: ₹ 1289 Lakhs
Rate of Return	: 29%
Break Even Point	: 33%

Curcumin Extraction Unit

Curcumin is the main biologically active phytochemical compound of Turmeric. Molecular chemical formula of Curcumin: C₂₁H₂₀O₆. The most important constituents in organic turmeric are Curcuminoid, which is approximately 6%, and the yellow coloring principles of which Curcumin constitutes 50-60%.

Curcumin market size may observe significant growth owing to pharmaceutical and cosmetic industry expansion. APAC organic cosmetic spending was over USD 2.5 million in 2014 and is estimated to exceed USD 4 million by 2024 which should favor regional industry growth.

PROJECT COST ESTIMATE CAPACITY

Curcumin Powder	: 50 Kgs / Day
Turmeric Oil	: 20 Kgs / Day
Deoiled Turmeric	: 920 Kgs / Day
Plant & Machinery	: ₹ 231 Lakhs
Cost of Project	: ₹ 666 Lakhs
Rate of Return	: 21%
Break Even Point	: 48%

The production is mainly dominated by India, with over 78 percent of global output taking place in the country. India & China are the major supplier of Curcumin. The turnover of Curcumin could reach USD 94.32 million in 2022. India contributes 80% of world production and roughly 60% of export. Indian Curcumin market size accounted for over 81% of the overall Asia Pacific revenue most of these as a food coloring agent. Though Curcumin is currently used majorly as a cosmetic but the market may witness a growth of 10% over last year, majorly driven by its role as a dietary supplements (as immunity booster & anticancer drugs). As a whole any entrepreneur can venture in this project without risk and earn profit.

Red Oxide Primer

Red oxide primer is a specially formulated coating used as a base coat for ferrous metals. Red-oxide primer serves a similar purpose to interior wall primers in that it prepares metal for a topcoat, but it also gives iron and steel surfaces a layer of protection. A primer is composed of Red Oxide, solvents, resins, and various

additives. The pigments give the primer color; solvents make it easier to apply; resins help it dry; and additives serve as everything from fillers to anti fungicidal agents.

Primer is a term used to describe a number of substances that consist of a Red Oxide suspended in a liquid or paste vehicle such as oil or water. With a brush, a roller, or a spray gun, primer is applied in a thin coat to various surfaces such as wood, metal, or stone. Although it's primary purpose is to

protect the surface to which it is applied.

The global pigments market will generate \$34.2 billion through 2020. Organic as well as inorganic pigments are expected to see significant growth, as they are intrinsically linked to the growth of the construction industry. While global textile production accounted for more than half of the world's dye and pigment demand in 2014, paint and coatings applications are the fastest rising segment thanks to North American and Asian construction activity. As a whole any entrepreneur can venture in this project without risk and earn profit.

PROJECT COST ESTIMATE CAPACITY

Red Oxide Primer	: 500 Packs / Day
(Each Packed in 20 Ltrs Container)	
Plant & Machinery	: ₹ 104 Lakhs
Cost of Project	: ₹ 317 Lakhs
Rate of Return	: 28%
Break Even Point	: 59%

Red Iron Oxide (with Mining of Mineral Ore along with Processing and Beneficiation)

Iron (III) oxide or ferric oxide is the inorganic compound with the formula Fe₂O₃. It is one of the three main oxides of iron, the other two being iron (II) oxide (FeO), which is rare; and iron (II,III) oxide (Fe₃O₄), which also occurs naturally as the mineral magnetite. As the mineral known as hematite, Fe₂O₃ is the main source of iron for the steel industry. Fe₂O₃ is readily attacked by acids. Iron (III) oxide is often called rust, and to some extent this label is useful, because rust shares several properties and has a similar composition. To a chemist, rust is considered an ill-defined material, described as hydrated ferric oxide.

The Indian government has allocated USD 63 billion for the infrastructure sector in 2019-20 and is planning to spend USD 1.4 trillion over the next five years. The development of smart cities and other schemes like "housing for all" are expected to increase the demand for paints and coatings.

Iron Oxide Pigments comprises iron and oxides and can be produced from both natural and synthetic sources.

Naturally, Iron Oxide Pigments are derived from hematite (red iron oxide mineral), limonites (yellow or brown minerals) such as ochers, sienna's & umbers, and magnetite (black iron oxide). Synthetic Iron Oxide Pigments are produced from basic chemicals by three processing methods which includes precipitation of iron salts, thermal decomposition of iron salts, and reduction of organic compounds by iron. The product finds use in numerous applications including construction, paints & coatings, plastics, paper, pharmaceuticals, and cosmetics among others. As a whole any entrepreneur can venture in this project without risk and earn profit.

PROJECT COST ESTIMATE CAPACITY

Red Iron Oxide	: 4,000 MT / Day
Plant & Machinery	: ₹ 1096 Lakhs
Cost of Project	: ₹ 4391 Lakhs
Rate of Return	: 31%
Break Even Point	: 50%

Sodium Chlorite Liquid from Powder (31% Liquid NaClO₂)

Sodium chlorite (NaClO₂) is a chemical compound used in the manufacturing of paper and as a disinfectant. Sodium chlorite, NaClO₂, sometimes in combination with zinc chloride, also finds application as a component in therapeutic rinses, mouthwashes, toothpastes and gels, mouth sprays, as preservative in eye drops, and in contact lens cleaning solution under the trade name Purite. It is also used for sanitizing air ducts and HVAC/R systems and animal containment areas (walls, floors, and other surfaces).

The global sodium chlorate market reached a volume of 4.3 Million Tons in 2019, registering a CAGR of 4.2% during 2014-2019. The market is further projected to reach a volume of around 5.1 Million Tons by 2025, exhibiting a CAGR of 2.9% during 2020-2025. Sodium chlorate (NaClO₃) is an inorganic chemical compound manufactured by

the electrolysis of brine (NaCl). A powerful oxidizing agent, sodium chlorate is an odorless, pale-yellow crystalline solid and readily dissolves in water. It is inflammable in nature in pure form and acts as an extreme combustion

accelerant in the presence of flammable

materials during decomposition. Currently, sodium chlorate is widely used in the preparation of chlorine dioxide which is employed as a bleaching agent in the manufacturing of bleached pulp. As a whole any entrepreneur can venture in this project without risk and earn profit.

PROJECT COST ESTIMATE CAPACITY

Sodium Chlorite Liquid	: 1.7 MT / Day
Plant & Machinery	: ₹ 7 Lakhs
Cost of Project	: ₹ 120 Lakhs
Rate of Return	: 28%
Break Even Point	: 61%

Tungsten Carbide Rod

Tungsten carbide (WC) is an inorganic chemical compound containing equal parts of tungsten and carbon atoms. In its most basic form, it is a fine gray powder, but it can be pressed and formed into shapes for use in industrial machinery, tools, abrasives, as well as. Tungsten carbide is approximately three times stiffer than steel, and is much denser than steel or titanium. It is comparable with corundum in hardness and can only be polished and finished with abrasives of superior hardness such as silicon carbide, cubic boron nitride.

In India, investments of USD 31,650 billion has been proposed by 99 cities under their smart cities plan. 100 smart cities and 500 cities are likely to invite investments worth INR 2 trillion in the next 5 years. Housing for All program, launched in June 2015 aims to build 20 million urban homes and 30 million rural houses by 2022. Around 60 million new homes are expected to be built in India "between" 2018-2024. Thus, the growing manufacturing activities are instrumental for the growth of cemented carbide which in turn, boosting the market for tungsten carbide during the forecast period.

The market for tungsten carbide is anticipated to grow at a moderate CAGR of over 3.5% during the forecast period. Growth in the manufacturing activities across the globe is generating demand for tungsten carbide. Tungsten carbide is highly dense material constituting of tungsten and carbide. This

PROJECT COST ESTIMATE CAPACITY

Tungsten Carbide Rod	: 2 MT / Day
Plant & Machinery	: ₹ 119 Lakhs
Cost of Project	: ₹ 607 Lakhs
Rate of Return	: 31%
Break Even Point	: 59%

alloy is resistant to heat, rust, scratches, and pitting. As a whole any entrepreneur can venture in this project without risk and earn profit.

Linear Alkyl Benzene Sulphonic Acid

Linear Alkyl Benzene Sulphonic Acid is a largest volume synthetic surfactant because of its relatively low cost, good performance, the fact that it can be dried to a stable powder and the biodegradable environmental friendliness. LAB Sulphonic Acid is an anionic surfactant widely used in formulation of all ranges of Domestic Detergents Powder, Cake & Dish wash cleaners. Due to its high active matter, miscibility with water and low salt content, it is also used in formulation of Industrial & Household liquid cleaners as well as in numerous industrial applications like as a coupling agent and as an emulsifier for agricultural herbicides and in emulsion polymerization. Linear Alkyl Benzene Sulphonic Acid is an anionic surface active agent with superior detergency and compatibility with a broad range of other anionic, nonionic and amphoteric surfactants.

The global Linear Alkyl Benzene Sulphonic Acid market size is expected to gain market growth in the forecast period of 2020 to 2025, with a CAGR of 3.3% in the forecast period of 2020 to 2025 and will expected to reach USD 4234.1 million by 2025, from USD 3711.3 million in 2019. Rise in demand for industrial cleaners to maintain

industrial hygiene is also boosting the linear alkyl benzene sulfonic acid market in the region. The U.S. is a leading consumer of linear alkyl benzene sulfonic acid in North America. Rise in demand for biodegradable surfactants in the country is expected to hamper the linear alkyl benzene sulfonic acid market in North America. Latin America and Middle East & Africa are projected to provide

lucrative opportunities to manufacturers in the near future due to the rapid urbanization and industrialization. As a whole any entrepreneur can venture in this project without risk and earn profit.

PROJECT COST ESTIMATE CAPACITY

Linear Alkyl Benzene Sulphonic Acid	: 20 MT / Day
Plant & Machinery	: ₹ 384 Lakhs
Cost of Project	: ₹ 757 Lakhs
Rate of Return	: 26%
Break Even Point	: 50%

Aqua Fish Feed

Fish feed are placed in the middle of the aquaculture value chain. Raw materials of marine or land based origin are mixed with other important ingredients to feed pellets, which through their transformation in the fish are important for the final quality of the fresh fish or the processed fish products for the consumers. Fish farmers in India have increased access to high-quality feed this year, as Cargill has opened its first feed plant dedicated to fish species in the country. The plant, located in Vijayawada and acquired from Mulpuri Foods & Feeds, reflects the company's commitment to bring farmers safe, high-quality aqua feed solutions, according to a press release. It marks an important step in Cargill's work to develop its aqua feed business in India and across Asia.

The India Aquaculture Feed Market was valued at USD 1.20 billion in 2017 and is expected to register a CAGR of 10.4% during the forecast period (2018-2023). India feed mills have the capacity to produce 2.88

PROJECT COST ESTIMATE CAPACITY

Fish Feed	: 60 MT / Day
Prawn Feed	: 60 MT / Day
Plant & Machinery	: ₹ 845 Lakhs
Cost of Project	: ₹ 1702 Lakhs
Rate of Return	: 27%
Break Even Point	: 55%

million metric ton. Andhra Pradesh is the largest feed consuming state in India. The coastal line of the country is about 7,517 kilometers with 195.20 kilometers of river and canal systems. The country consists of 14 rivers, 44 medium rivers, and many small rivers. The country also has tanks and ponds. By these sources, it is clear that the aquaculture industry is huge in India which provides huge opportunity and potential for aquaculture feed industry. As a whole any entrepreneur can venture in this project without risk and earn profit.

Banana Wafers

Fried banana wafers are a deep fried snack food prepared from green fresh mature bananas of the cooking variety. Success in deep-fat frying of snack foods depends upon several factors, such as (a) the use of proper raw material of optimum maturity or quality, (b) correct method of preparation, (c) use of suitable equipment, (d) selection of appropriate fat or oil as frying medium, (e) optimum time and temperature of frying, (f) efficient packaging, and (g) proper storage. Though consumption of these products is at present very high there is no systematic quality control.

The Global Snack Food Market was valued at USD 450 billion in 2017 and is expected to reach a value of USD 638 billion by 2023 at a CAGR of 5.79% during the forecast period (2018-2023). While the factors like demand for urbanization and change in lifestyle fuel the growth of the market, whereas government rules and health concerns are hindering the market growth. The growing demand in developing regions and development of innovative products provides ample growth opportunities.

India wafers market has shown remarkable growth in past couple of years. The market is forecasted to grow with a CAGR of more than 9% in near future. Currently, the growing young population represents a key segment for the potato wafers, banana wafers, and tortilla wafers market. Major factors driving the global demand of wafers are growing urbanization, rise in disposable incomes and rapidly changing lifestyles. As a whole any entrepreneur can venture in this project without risk and earn profit.

Hot Melt Adhesives

(For Book Binding, Packaging and Courier Bag)

Melt adhesives are bonding agents which achieve a solid state and resultant strength by cooling as contrasted with other adhesives which achieve the solid state through evaporation or removal of solvents. Prior heating, a hot-melt adhesive is a thermoplastic, 100 percent solid material, all adhesive. Application of heat brings the material to the liquid state, and after removal of the heat, it sets by simple cooling. Hot Melt Adhesives are defined as adhesives that melt and flow on application of heat and solidifies on cooling to give a strong adhesion. Hot melt adhesives are solvent-free, solvent-free, solid compounds that have negligible or no VOC (volatile organic compound) compared to solvent-based adhesives.

The global market for hot melt adhesives is gaining significant impetus from the rise in the trading activities, lead-

ing to a high demand for packaging. The increasing construction activities across the world is also fueling the need for hot melt adhesives substantially. On the other hand, the volatility in crude oil prices and the easy availability of substitutes are likely to create hindrances in the higher adoption of hot melt adhesives across the world in the years to come. The global Hot

Melt Adhesives (HMA) market size exceeded USD 6.60 billion, globally in 2018 and is estimated to grow at over 6.4% CAGR between 2019 and 2022, projected to reach USD 9.46 billion by 2022, in terms of value. The HMA market is driven by the increasing demand for HMA from applications such as packaging solutions, nonwoven hygiene products, and consumer DIY. As a whole any entrepreneur can venture in this project without risk and earn profit.

PROJECT COST ESTIMATE CAPACITY

Hot Melt Adhesive for Book Binding	: 300 Kgs / Day
Hot Melt Adhesive for Packaging	: 250 Kgs / Day
Hot Melt Adhesive for Courier Bag	: 250 Kgs / Day
Plant & Machinery	: ₹ 96 Lakhs
Cost of Project	: ₹ 283 Lakhs
Rate of Return	: 23%
Break Even Point	: 55%

PROJECT COST ESTIMATE CAPACITY

Banana Wafers (40 gms size)	: 10,700 Packets / Day
Banana Wafers (20 gms size)	: 21,300 Packets / Day
Banana Wafers (10 gms size)	: 42,600 Packets / Day
Plant & Machinery	: ₹ 37 Lakhs
Cost of Project	: ₹ 393 Lakhs
Rate of Return	: 30%
Break Even Point	: 53%

Needles for Sewing and Embroidery Machine

A sewing needle, used for hand-sewing, is a long slender tool with a pointed tip at one end and a hole (or eye) at the other. The earliest needles were made of bone or wood; modern needles are manufactured from high carbon steel wire and are nickel- or 18K gold-plated for corrosion resistance. High quality embroidery needles are plated with two-thirds platinum and one-third titanium alloy. Traditionally, needles have been kept in needle books or needle cases which have become objects of adornment. Needles are offered in a wide range of sizes and the selection of needle size is based on the combination of fabric and

sewing thread which is to be sewn. If the selected sewing needle is too small for the sewing thread size, the thread will not fit well into the long groove of the needle and will suffer from extreme abrasion.

The global sewing machines market is projected to grow at the rate of 4.1% during the forecast period, 2018

to 2023. The large scale adoption of these automated sewing machines for most apparel and non-apparel manufacturing contributes to the growth of the sewing machine market. Supporting government policies in emerging policies, like China and India, influence textile manufacturers to adopt the latest technologies and expand their manufacturing sites, is expected to increase the demand for industrial sewing machines. However, strong presence of unorganized players and uncertainty in raw material costs are restraining the growth of sewing machines market. As a whole any entrepreneur can venture in this project without risk and earn profit.

Rice Flakes and Puffed Rice

Rice flakes consumed by people of all ages and all times. With tea and coffee, rice flakes make a tasty and nutrition's snack. There is a definite need for the rice flakes industry to make inroads in the rural areas.

PROJECT COST ESTIMATE CAPACITY

Sewing Needles (30 g each) per Pack 50 Pcs.	: 6,400 Packs / Day
Embroidery Needles (30 g each) per Pack 50 Pcs.	: 1,600 Packs / Day
Plant & Machinery	: ₹ 256 Lakhs
Cost of Project	: ₹ 939 Lakhs
Rate of Return	: 27%
Break Even Point	: 59%

Manufacturing of rice flakes products have substantial scope for development in smaller towns, village and backward areas and can provide a good number of employment opportunities at different levels. Rice is a major source of energy and an important source of protein. The availability of nutrients per 100 g of raw white rice provides 361 kcal and 6 g of protein. It also contains substantial amounts of zinc and niacin. On the other hand, it is low in calcium, iron, thiamine and riboflavin and has virtually no beta-carotene (Vitamin A). It is noteworthy that the highest the degree of polishing, the lowest the level of proteins, vitamins and minerals in the final product.

The global edible flakes market value was estimated at nearly 14.51 (USD Billion) in 2018 and is expected to be valued at 24.75 (USD Billion) by 2025 at a cumulative growth rate of around 8%. The report edible flakes market encompasses market estimation and analysis on both the global as well as regional level. The research report offers an extensive valuation of the market, business rivalry, opportunities, sales forecasts, revenue forecasts, and industry-validated market data. The report offers historical data from 2016 to 2018 and a forecast from 2019 to 2025 based on earnings (USD Billion). As a whole any entrepreneur can venture in this project without risk and earn profit.

PROJECT COST ESTIMATE CAPACITY	
Puffed Rice (Muri)	: 20,000 Kgs / Day
Rice Flakes (Poha)	: 30,000 Kgs / Day
Broken Rice Flakes (Poha)	: 1,500 Kgs / Day
Rice Husk (bye product)	: 15,000 Kgs / Day
Plant & Machinery	: ₹ 120 Lakhs
Cost of Project	: ₹ 571 Lakhs
Rate of Return	: 28%
Break Even Point	: 57%

PROJECT COST ESTIMATE CAPACITY	
Drumstick (Moringa Oleifera) Powder	: 400 Kgs / Day
Plant & Machinery	: ₹ 31 Lakhs
Cost of Project	: ₹ 71 Lakhs
Rate of Return	: 29%
Break Even Point	: 71%

Pasta and Macaroni

Pasta is a food that is loved by people of all age group. It is not just easy to make but can be a healthy food option when combined with veggies and nutritious sauces. This food is not just tasty but also has an interesting production process. The production process can be divided into a series of steps and has three key factors. The list of factors that influences the quality of production are raw material, presence of skilled employees and processing technology. Macaroni is dry pasta shaped like narrow tubes. Made with durum wheat, macaroni is commonly cut in short lengths; curved macaroni may be referred to as elbow macaroni. Some home machines can make macaroni shapes, but like most pasta, macaroni is usually made commercially by large-scale extrusion.

According to "India Pasta Market By Product Type, By Shape Type, By Distribution Channel, Competition, Forecast & Opportunities, 2013-2023" pasta market stood at over \$ 178 million in 2017 and is projected to grow at a CAGR of around 17% to reach \$ 453 million by 2024 on account of increasing awareness about health benefits of pasta as it is made of semolina durum wheat and not from refined flour.

The primary factors catalyzing the growth of the pasta market in India include rising urbanization, changing lifestyles and surging demand for ready-to-eat products. In addition to this, the market is also influenced by an increasing women employment rate coupled with rising disposable incomes. As a whole any entrepreneur can venture in this project without risk and earn profit.

PROJECT COST ESTIMATE CAPACITY	
Pasta (1 Kg Pack)	: 13,000 Packs / Day
Macaroni (1 Kg Pack)	: 13,000 Packs / Day
Plant & Machinery	: ₹ 863 Lakhs
Cost of Project	: ₹ 1300 Lakhs
Rate of Return	: 12%
Break Even Point	: 65%

Moringa Oleifera (Drumstick) Powder

Moringa Oleifera is the most widely cultivated species of the genus Moringa, which is the only genus in the family Moringaceae. English common names include: moringa, drumstick tree (from the appearance of the long, slender, triangular seed-pods), horseradish tree (from the taste of the roots, which resembles horseradish), ben oil tree, or benzoil tree (from the oil which is derived from the seeds).

Originated from India, moringa trees are now found in Ghana, the Philippines, Nigeria, Kenya, Rwanda, Niger, Mozambique, Cambodia and Haiti. Today, the moringa market globally is estimated at more than Rs 27,000 crore, which is expected to cross Rs 47, 250 crore by 2020, growing at a rate of nine per cent per year.

The increasing awareness about the health advantages of moringa products will be one of the major factors that will have a positive impact on the global moringa products market during the forecast period.

Over the years, moringa products such as moringa leaf powder have seen a growth in the sales in the global market. The rising health awareness in countries such as Europe and Americas have given rise to the increasing usage of moringa products by the consumers.

This will drive the moringa products market future growth till 2022. As a whole any entrepreneur can venture in this project without risk and earn profit.

Biodegradable Plastic Bags from Corn & Cassava Starch

Corn starch has 25% amylose and 75% amylopectin. The amylose molecules loose lose water increase biodegradation characteristic and amylopectin molecule is responsible for plasticizer properties. Their granule size ranges between 5 to 20 microns. I.e. good absorption capacity, rapid gel formation & good strength. Starch is used to produce such diverse products as food, paper, textiles, adhesives, beverages, confectionery, packaging, pharmaceuticals, and building materials. Cassava starch has many remarkable characteristics, including high paste viscosity, high paste clarity, and high freeze-thaw stability, which are advantageous to many industries.

PROJECT COST ESTIMATE CAPACITY	
Biodegradable Plastic Bags from Corn Starch (Per Bag 25 gms Size)	: 6 MT / Day
Biodegradable Plastic Bags from Cassava Starch (Per Bag 25 gms Size)	: 6 MT / Day
Plant & Machinery	: ₹ 1053 Lakhs
Cost of Project	: ₹ 1768 Lakhs
Rate of Return	: 27%
Break Even Point	: 51%

Cassava starch could be used for making various types of packaging products. As a major source of starch in trop-

ical and subtropical regions, cassava is a promising raw material for the development of biodegradable plastics in these areas.

The global biodegradable plastic packaging market was valued at USD 4.65 billion in 2019, and is expected to reach a market value of USD 12.06 billion by 2025, registering a CAGR of 17.04% during the forecast period of 2020-2025. Growing environmental concerns regarding plastic usage that consists of toxic pollutants which are harming plants, animals, and people are driving the use of biodegradable plastic. Stringent regulations by various government and federal agencies with an objective to reduce plastic waste and promote biodegradable plastics usage in packaging is boosting the demand of this market. As a whole any entrepreneur can venture in this project without risk and earn profit.

Refrigerant Gas R22 Bottling Plant

A refrigerant is a substance or mixture, usually a fluid, used in a heat pump and refrigeration cycle. In most cycles it undergoes phase transitions from a liquid to a gas and back again.

The ideal working fluid or often called refrigerant would have favorable thermodynamic properties, be non-corrosive to mechanical components, and be safe, including freedom from toxicity and flammability.

The desired thermodynamic properties are a boiling point somewhat below the target temperature, a high heat of vaporization, a moderate density in liquid form, a relatively high density in gaseous form, and a high critical temperature. Since boiling point and gas density are affected by pressure, refrigerants may be made more suitable for a particular application by appropriate choice of operating pressures.

Chlorodifluoromethane or difluoromonochloromethane is a hydro chlorofluorocarbon (HCFC). This colorless gas is better known as HCFC-22, or R-22, or (CH ClF₂). It is commonly used as a propellant and refrigerant. R-22 cylinders are colored light green.

R22 is a single component HCFC refrigerant that has historically been used for air conditioning, medium temperature and low temperature refrigeration.

The refrigerants market size is estimated to be USD 22.9 billion in 2018 and is projected reach USD 31.0 billion by 2023, at a CAGR of 6.2% between 2018 and 2023. The market is mainly driven by the rising demand for refrigerants from the applications domestic, commercial, and industrial refrigeration; chillers; window, split, VRF, and other air-conditioning systems; and MAC. Growing demand for refrigerants in upcoming applications has created various opportunities for its manufacturers. APAC is the key market for refrigerants, globally, followed by North America and Europe, in terms of volume. One of the primary drivers of the market is the increasing demand for consumer appliances in these regions.

Increase in demand for energy-efficient cooling solutions and rising awareness regarding global warming and ozone depletion is expected to shape the industry over the forecast period. Fluorocarbon phase-out as per regulations laid down by the Montreal Protocol and updated by the Kyoto Protocol has led to a resurgence in demand for natural refrigerants. The hydrocarbon and inorganic segments

are, therefore, expected to witness considerable growth.

The stationary air conditioning, chillers, and heat pumps segment dominated the market by application and accounted for over 47% of the overall volume in 2016. Increased spending power of the middle class on consumer appliances, such as refrigeration systems, has resulted in the growth of this segment. Rising demand for cooling equipment owing to rapid industrialization, deteriorating weather conditions, and growth in the manufacture of consumer appliances has also positively influenced its demand.

Commercial refrigeration is another application witnessing significant growth. Increasing hypermarket, super-market, and food retail chains, coupled with rise in consumption of packaged and frozen foods, has boosted the demand for commercial refrigerants.

Workshop for Motors of Low Voltage (Up-To 1000V) and Distribution Transformers (Maintenance, Overhauls and Repairs)

Maintenance of electrical equipment and the maintenance function in general, are key subjects today for managers of plants and facilities. One important reason for this interest is there are profound changes taking place in the area of maintenance and reliability management. Basically, sweeping changes in management and organizational structure are redefining how work gets done.

The maintenance function was seen as a non-core service organization that did not contribute to competitiveness. Benchmarks for maintenance were isolated measurements of tasks—that is, task orientation rather than business goal orientation. New performance criteria for measuring maintenance will be focused on optimizing asset utilization, not maximizing asset utilization.

Qualification and certification of electrical maintenance personnel are other factors that will become increasingly important. A number of electrical industry organizations got together recently and created a certification program for people involved in the installation and maintenance of instrumentation and control systems.

To provide quality, fast and competitive service for all units, including smaller ones of 100 HP or less, we have dedicated teams of specialists who are inspired by Lean best practices. Indeed, the Multi-Tech Workshop works completely independently from other Services departments to carry out the operations necessary for the refurbishment of small electric motors.

The growing requirement to improve and maintain the reliability of the electrical distribution equipment at office spaces, manufacturing facilities, and industrial facilities is propelling the demand for the electrical distribution services, globally. The electrical services market's growth can also be attributed to the increasing focus on repair and maintenance of existing electrical equipment and fixtures across multiple industries. Fulfilling crucial parameters is critical to ensure the effective scheduling of electrical distribution equipment to avoid the operational downtimes. Based on power rating, the distribution transformer market has been segmented into power ratings ranging up to 500 kVA, 501 kV–2,500 kVA, 2,501 kVA–10,000 kVA, and above 10,000 kVA. The distribution transformers ranging from 2,501 kVA–10,000 kVA are widely used in industrial

PROJECT COST ESTIMATE CAPACITY

Refrigerant Gas R22 (Cylinder 10 Kgs Size)	: 166 Nos / Day
Plant & Machinery	: ₹ 24 Lakhs
Cost of Project	: ₹ 179 Lakhs
Rate of Return	: 27%
Break Even Point	: 64%

PROJECT COST ESTIMATE CAPACITY

Workshop for Motors & Distribution Transformer of Low Voltage (up to 1000V) Maintenance, Overhauls and Repairs	
Plant & Machinery	: ₹ 30 Lakhs
Cost of Project	: ₹ 85 Lakhs
Rate of Return	: 27%
Break Even Point	: 71%

and commercial sectors due to high power consumption as compared to residential power consumption.

The global distribution transformer market is anticipated to grow at a CAGR of 7.88% between 2020 and 2028, and is anticipated to generate revenue of \$32.58 billion by 2028. The service transformers or distribution transformers (DTs) deliver the final voltage alteration in the electric power distribution arrangement. DTs are used to step down the voltage used in the distribution lines (usually up to 36 kV), to the level used by the customer (usually 250 up to 435 V).

The oil-filled segment is expected to be the largest market for distribution transformer, as it is more efficient, having longer service life and features more reliable overload capabilities. In developing countries, oil-filled distribution transformers account for around 90% of the total distribution transformer units and 80% in developed countries.

Methyl Ethyl Ketone (MEK)

MEK is a naturally occurring human metabolite, is present naturally in foods across all food groups, and is produced by microbes, algae, plants and other organisms. It is also released to the environment via anthropogenic production, where it primarily partitions to air. Its primary use is industrial, but it can also be found in consumer products, especially coatings and adhesives, and has minor use in the food industry as an extraction agent and flavoring agent.

Methyl Ethyl Ketone (MEK), is an organic compound with the formula CH₃C(O)CH₂CH₃. This colorless liquid Ketone has a sharp, sweet odor reminiscent of butterscotch and acetone. It is produced industrially on a large scale, and also occurs in trace amounts in nature. It is soluble in water and is commonly used as an industrial solvent.

MEK is used in surface coatings (55%), adhesives (12%), printing inks (4%), chemical intermediates (6%), magnetic tapes (5%) and lube oil dew axing agents (6%). MEK also is used as an extraction medium for fats, oils, waxes and resins. Methyl Ethyl Ketone is used as a solvent for lacquers, adhesives; for cleaning materials to be electroplated; for degreasing; in rubber and rubber cement, printing inks, paints, wood stains, varnishes and paint removers and in cleaning solutions; as a catalyst; and as a carrier.

The future increase in demand of MEK in the country is expected from two levels. The first is from the growth of end users who are already using MEK. The second level is from the consumers who can use MEK but are using other solvents and are willing to switch over to MEK, once its easy availability is assured.

In 2018, Asia is expected to account for nearly 70% of the total world consumption of MEK. Paints and coatings continue to consume the majority of MEK, and little change in the world MEK market breakdown is expected by 2023. Adhesives make up the second-largest share of the MEK market in 2018, and represent the largest and fastest-growing market in China, where consumption is largely for the manufacture of shoes.

Global Methyl Ethyl Ketone Market size is forecasted to reach USD 3.64 billion against the volume of 1.9 Million Tonnes with a CAGR of 4.3 % by 2022. China, Western Europe, Japan and the United States are leading Consumer of MEK. It is projected that Asia Pacific region will drive the highest growth rate in the future as demand for MEK in this region is increasing at a fast pace with the development in end use. Increasing investments and development in automobile and infrastructure industries in China and India will further induce the consumption of MEK in the

Asia Pacific region. Positive demand outlook for paints and coatings, adhesives, printing inks; on account of increasing construction spending, particularly in the Asia Pacific and the Middle East is expected to remain a key driving factor for the global MEK market.

Methyl-Ethyl-Ketone (MEK) is a colorless and a harsh smelling carbon-based compound. It is commonly known as butanone. MEK characterized by outstanding chemical assets including low boiling point, high viscosity, high solvency, and high evaporation rate because of which it is used as a solvent across various applications.

Kraft Paper

Kraft paper is paper produced from chemical pulp produced in the kraft process. Sack kraft paper, or just sack paper, is a porous kraft paper with high elasticity and high tear resistance, designed for packaging products with high demands for strength and durability. Pulp produced by the kraft process is stronger than that made by other pulping processes; acidic sulfite processes degrade cellulose more, leading to weaker fibers, and mechanical pulping processes leave most of the lignin with the fibers, whereas kraft pulping removes most of the lignin present originally in the wood.

Paper is one of the core industries and is linked to the basic human needs. Paper is the pre-requisite for education and literacy and its use is an index of advancement in these two fields as well as the overall well-being of the society. Paper and paper board can be manufactured by using different

types of raw materials. Raw materials account for 45-50 per cent of the total cost of production and form an important segment of manufacturing paper and paper board. Of the total installed capacity, 43 per cent is dependent on forest based raw materials, 28 per cent on agro based raw materials and the remaining 29 per cent on other materials including waste paper.

Indian Paper Industry which is over 100 years old, was saddled with many constraints, not of its own making, which have prevented it from growing to its full stature. Of late, due to spurt in demand for paper in the context of availability of good raw materials modernization efforts are being undertaken. Profitable margins being good, it has shown good signs of progress. Paper is designated as a core industry. India's per capita consumption is a meagre 2.9 kg against 334 kg in U.S., 224 kg in Japan and 134 kg in Taiwan. Even within the Asian bloc, China has an impressive 12 kg per capita; the Philippines 8.5 kg and Thailand 17 kg, Malaysia (31), Korea (80), New Zealand (150), Singapore (80), Hong Kong (140), Australia (150) are other countries in the Asia-Pacific region which are significantly ahead in paper consumption.

The world consumption of paper and paperboard is estimated at over 300 mtonne a year. It is constituted broadly of 30% of cultural papers (writing and printing), 14% of newsprint, and the balance of kraft and packaging paper including paperboards. The Indian production is about 2 to 3% of the global total. The overall value of the market is estimated at Rs. 250 bn. In volume terms, the segment is presently estimated at over 6.9 mtonne.

In India, the cultural varieties account for over 40% of the production and speciality papers including coated papers for about 8%. This leaves about less than half for kraft and boards if the newsprint varieties are excluded. The newsprint takes over a mtonne or about 15% of the total.

The present demand is estimated at 13.1 million tonnes with domestic production of 11.4 million tonnes, export of

PROJECT COST ESTIMATE	
CAPACITY	
Kraft Paper	: 200 MT / Aay
Plant & Machinery	: ₹ 1408 Lakhs
Cost of Project	: ₹ 2864 Lakhs
Rate of Return	: 28%
Break Even Point	: 55%

PROJECT COST ESTIMATE
CAPACITY

Methyl Ethyl Ketone	: 40 MT Per Day
Plant & Machinery	: ₹ 946 Lakhs
Cost of Project	: ₹ 1814 Lakhs
Rate of Return	: 27%
Break Even Point	: 53%

0.5 million tonnes and import of 2.2 million tonnes. The demand is projected to boost to 23.5 million tonnes by 2024-25. India is the greatest growing market for paper in the world with a growth rate of about 6 percent yearly. The increase of per capita paper utilization by one kg will raise the demand by about 1.25 million tonnes per annum.

India has become self-sufficient in paper except for special varieties such as high quality bond paper and newsprint. The industry has progressed in the sense that dependence on wood-based raw material has come down to approximately 40%. Bagasse (about 33%) and waste paper (over 27%) now constitute more than 60% of the raw material base.

Thus, the overall market prospectus for paper products appears to be good and the demand for industrial paper is expected to grow at faster rate than general paper industries growth. A Greenfield project based on wood pulp with a capacity of 100,000 tonne is estimated to require about Rs. 10 bn of capital expenditure. The paper industry depends on farmers for sourcing raw materials, and requires about 2 MN ha from the countries 32 MN hectares of degraded forests. The real worry to domestic production is that 70% of global recycled paper is being shipped in by Chinese companies.

Waste & Used Oil Recycling Plant

Waste oil is generated from industrial and non-industrial sources and primarily contains hydrocarbons. It may also contain additives and impurities due to physical contamination and chemical reactions occurring during its use. The global lubricants market size is projected to reach USD 182.6 billion by 2025 from USD 157.6 billion in 2020, at a CAGR of 3.0%. Growth in Industrialization in Asia Pacific and the Middle East & Africa post COVID-19, coupled with the rise in process automation in most of the industries and the gradual increase in number of vehicles on-road are key factors expected to drive the global lubricants industry during the forecast period. Entrepreneurs who invest in this project will be successful.

PROJECT COST ESTIMATE CAPACITY	
Used Lubricating Oil :	7,600 Ltrs / Day
Spent Clay :	800 Kgs / Day
Plant & Machinery :	₹ 118 Lakhs
Cost of Project :	₹ 664 Lakhs
Rate of Return :	12%
Break Even Point :	59%

Chlorinated Polyvinyl Chloride

The demand for PVC in India witnessed an impressive CAGR in the historic years and is projected to achieve a healthy CAGR of over 6.81% during 2015-2030. The total capacity of PVC in India is around 1640 KTA with Reliance Industries holding maximum share in its production in comparison to the other four leading players. The domestic production of PVC is unable to consolidate the massive demand for the product hence; around 50 percent of the demand in India is being met through

PROJECT COST ESTIMATE CAPACITY	
Chlorinated Polyvinyl :	80 MT/ Day Chloride
Plant & Machinery :	₹ 588 Lakhs
Cost of Project :	₹ 2283 Lakhs
Rate of Return :	28%
Break Even Point :	49%

imports. Entrepreneurs who invest in this project will be successful.

Gourmet Popcorns

The global popcorn market is projected to reach \$15billion by 2023, registering a CAGR of 7.6 percent from 2017 to 2023, with ready-to-eat leading the segment. While established FMCG businesses have either launched a popcorn product or are looking to launch one, startups too have built ready-to-eat or ready-to-cook popcorn brands in the domain. It would be futile to undermine the potential this industry has. Entrepreneurs who invest in this project will be successful.

PROJECT COST ESTIMATE CAPACITY	
Gourmet Popcorns 50g Pack :	4000 Packs / Day
Gourmet Popcorns 100g Pack :	4000 Packs / Day
Gourmet Popcorns 150g Pack :	4000 Packs / Day
Gourmet Popcorns 200g Pack :	4000 Packs / Day
Plant & Machinery :	₹ 38 Lakhs
Cost of Project :	₹ 132 Lakhs
Rate of Return :	36%
Break Even Point :	61%

Camphor Powder

Global camphor market is anticipated to grow at a CAGR of 7.9% over the forecast period. Factor such as the growing demand of the camphor in making medicine for different type of diseases is expected to drive the growth of the camphor market in upcoming years. Due to good chemical properties it has wide range of application in various end user industries such as pharmaceuticals, food, agriculture and chemical among several others. It is also used for making ointments with vapor for treating cough and chest congestion. Rising demand of camphor for the ointments is anticipated to drive the growth for the market. Entrepreneurs who invest in this project will be successful.

PROJECT COST ESTIMATE CAPACITY	
Camphor Powder :	3000 Kgs / Day
Plant & Machinery :	₹ 159 Lakhs
Cost of Project :	₹ 459 Lakhs
Rate of Return :	26%
Break Even Point :	52%

Meat Analogue, Vegan Meat & Mock Meat from Soyabean and Wheat Gluten

There has been an increased leaning towards non-meat based protein alternatives. International players such as

Impossible Foods and Beyond Meat which offer substitute products for meat have been doing brisk business. In fact, reports predict that the global meat substitute market size which was valued at \$4.1 billion in 2017 is expected to scale up to \$8.1 billion by 2026. Entrepreneurs who invest in this project will be successful.

PROJECT COST ESTIMATE CAPACITY	
Meat Analogue (200 gms each Pack) :	1000 Packs / Day
Vegan Meat (200 gms each Pack) :	1000 Packs / Day
Mock Meat (200 gms each Pack) :	1000 Packs / Day
Plant & Machinery :	₹ 17 Lakhs
Cost of Project :	₹ 138 Lakhs
Rate of Return :	29%
Break Even Point :	62%

Rice Beer with Can & Bottle Packaging

The Global Beer Market was valued at \$593,024 million in 2017, and is projected to reach \$685,354 million by 2025, growing at a CAGR of 1.8% from

PROJECT COST ESTIMATE CAPACITY

Rice Beer (650 ml Bottle)	: 12,924 No's/Day
Rice Beer (500 ml Can)	: 16,800 No's/Day
Plant & Machinery	: ₹ 2631 Lakhs
Cost of Project	: ₹ 4596 Lakhs
Rate of Return	: 27%
Break Even Point	: 42%

alcoholic-beverage beer is not considered a hot drink like rum or whisky as it contains alcohol ranging from only 8 to 9 percent. It is considered good for health in the sense that being very less in alcoholic contents it is found effective in improving appetite. Thus, due to demand it is best to invest in this project.

Ciprofloxacin Hydrochloride

Indian pharmaceutical sector is expected to grow to US\$ 100 billion, while medical device market is expected to grow US\$ 25 billion by 2025. Pharmaceuticals export from India stood at US\$ 20.70 billion in FY20. Pharmaceutical export include bulk drugs, intermediates, drug formulations, biological, Ayush and herbal products and surgical. India's biotechnology industry comprising biopharmaceuticals, bio-services, bio-agriculture, bio-industry, and bioinformatics is expected to grow at an average growth rate of around 30 per cent a year to reach US\$ 100 billion by 2025. Thus, due to demand it is best to invest in this project. Thus, due to demand it is best to invest in this project.

PROJECT COST ESTIMATE CAPACITY

Ciprofloxacin Hydrochloride	: 600 Kegs' / Day
Plant & Machinery	: ₹ 201 Lakhs
Cost of Project	: ₹ 580 Lakhs
Rate of Return	: 27%
Break Even Point	: 58%

2019 to 2025. The origin of beer dates to the early Neolithic period, and is one of the oldest and the most consumed alcoholic beverages in the world. Beer is a popular beverage all over the world. Though an

plied muscle cooling lotions. It is also used extensively as a flavoring agent in confections, gum, and oral hygiene products, and in perfumery, it is commonly used to emphasize floral notes. Menthol products 60% of the cost is directly related to the menthol oil price, which is actively traded in the commodity market. The price fluctuation of menthol oil highly depends on the season. Thus, due to demand it is best to invest in this project.

PROJECT COST ESTIMATE CAPACITY

Menthol Crystal	: 1,500 Kgs / Day
Dmentha Oil	: 500 Kgs / Day
Plant & Machinery	: ₹ 196 Lakhs
Cost of Project	: ₹ 642 Lakhs
Rate of Return	: 30%
Break Even Point	: 51%

Liquid Glucose & Fructose from Broken Rice

Fructose is majorly used in the production of nutrition bars, soft moist cookies, pourable frozen juice concentrates and energy-reduced products. It is commercially available in syrup and crystalline forms. High fructose corn syrup, which is the major product segment in the market, is expected to experience reduced demand on account of growing concerns regarding obesity. Fructose syrups is the fastest growing product segment and expected to register a CAGR of 4.7% from 2017 to 2025 due to increased demand from the beverage manufacturing industry. Entrepreneurs who invest in this project will be successful.

PROJECT COST ESTIMATE CAPACITY

Liquid Glucose	: 112 MT / Day
Fructose	: 80 MT / Day
Broken Rice Protein (Bye Product)	: 8 MT / Day
Plant & Machinery	: ₹ 3936 Lakhs
Cost of Project	: ₹ 5941 Lakhs
Rate of Return	: 26%
Break Even Point	: 45%

BLDC Fan

India is a tropical country making fans a necessity. Thus, the fan industry in India is well-established and has shown significant growth over the years. Profit realizations increased only 3.0-3.5% annually in the last 2 years due to a parallel rise in raw material prices. However, going forward, realizations for the sector are due to increase substantially as share of premium fans rise from current 6-8% levels to more than 15-20% over the next 3-5 years. Growth in the housing sector is boosting the demand for ceiling fans, especially in the developing economies. For instance, the governments of China and India are coming up with new schemes to provide shelter to the low- and middle-income groups. In addition to this, development in the commercial real estate, hospitality and retail sectors are bolstering the market growth. Thus, due to demand it is best to invest in this project.

PROJECT COST ESTIMATE CAPACITY

BLDC Ceiling Fan (48"-52")	: 1,000 Pcs. / Day
Plant & Machinery	: ₹ 48 Lakhs
Cost of Project	: ₹ 359 Lakhs
Rate of Return	: 29%
Break Even Point	: 66%

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%

Menthol Crystal

Global Menthol Market Is forecasted to reach 5590 Million US\$ by 2025 with a 4.68% average growth rate. Menthol is an active ingredient in countless products, ranging from aftershave to topically ap-

Pulp Based Fruit Drink Manufacturing (Automatic Plant)

The global fruit beverages market size was valued at USD 33.92 billion in 2018 and is projected to expand further at a CAGR of 6.2% from 2019 to 2025. The market is expected to witness stable growth during the next five years. Fruit juice refers to a non-fermented beverage which is obtained by mechanically squeezing or macerating fruits. Different types of fruit juice offer varied health benefits, for instance, avocado juice boosts natural energy in the body; watermelon juice keeps the body hydrated and improves metabolism; papaya juice caters healthy digestion; lemon juice fights viral infections, and pineapple juice reduces cholesterol levels. This, coupled with the refreshing taste and longer shelf-life of fruit juice, makes it one of the most widely consumed beverages across the globe. This growth is attributed to the increasing demand for fruit beverages in emerging countries including China and India. Entrepreneurs who invest in this project will be successful.

PROJECT COST ESTIMATE CAPACITY

Mango Fruit Drink	: 12,000 Ltrs / Day
Litchi Fruit Drink	: 12,000 Ltrs / Day
Guava Fruit Drink	: 12,000 Ltrs / Day
Orange Fruit Drink	: 12,000 Ltrs / Day
Lemon Fruit Drink	: 12,000 Ltrs / Day
Plant & Machinery	: ₹ 665 Lakhs
Cost of Project	: ₹ 5119 Lakhs
Rate of Return	: 31%
Break Even Point	: 32%

Sterile Water for Injection

Indian pharmaceutical sector is expected to grow to US\$ 100 billion, while medical device market is expected to grow US\$ 25 billion by 2025. Pharmaceuticals export from India stood at US\$ 20.70 billion in FY20. Pharmaceutical export include bulk drugs, intermediates, drug formulations, biological, Ayush and herbal products and surgical. India's biotechnology industry comprising biopharmaceuticals, bio-services, bio-agriculture, bio-industry, and bioinformatics is expected to grow at an average growth rate of around 30 per cent a y-o-y to reach US\$ 100 billion by 2025. Entrepreneurs who invest in this project will be successful.

PROJECT COST ESTIMATE CAPACITY

Ampoules 5 ml Size	: 200,000 Nos. / Day
Ampoules 10 ml Size	: 150,000 Nos. / Day
Ampoules 20 ml Size	: 150,000 Nos. / Day
Plant & Machinery	: ₹ 1933 Lakhs
Cost of Project	: ₹ 3040 Lakhs
Rate of Return	: 27%
Break Even Point	: 39%

Citric Acid from Corn

The global citric acid market is expected to garner a revenue of USD 5.0 billion in 2024 and is expected to register a CAGR of 5.5% during the forecast period of 2019–2024. Citric acid is a weak organic acid that occurs naturally in citrus fruits. It is produced commercially through the fermentation process and appears as a white, odorless, and crystalline powder at room temperature. It is widely used in the food and beverage industry as a preservative/sequesterant, acidulate, antioxidant, chelating agent, emulsifying agent, and flavoring agent in beverages, bakery & confectionary; sweet & savory snacks; soups, sauces, and dressings, RTE & RTC meals, and others. Thus, due to demand it is best to invest in this project.

PROJECT COST ESTIMATE CAPACITY

Citric Acid	: 20 MT / Day
Animal Feed bye product	: 15.2 MT / Day
Gluten bye product	: 7.3 MT / Day
Plant & Machinery	: ₹ 1799 Lakhs
Cost of Project	: ₹ 3559 Lakhs
Rate of Return	: 29%
Break Even Point	: 66%

Information Technology Park

More importantly, the Indian IT sector is one of the biggest and fastest growing markets and has led the economic transformation of the country. The IT sector has also created significant demand for specialized real-estate development that can cater to the specific requirements of the industry. The market size of India's IT-BPM sector is expected to grow to US\$ 350 billion by 2025 and BPM is expected to account for US\$ 50-55 billion out of the total revenue. Thus, due to demand it is best to invest in this project.

PROJECT COST ESTIMATE CAPACITY

Land Area	: 25 Acres
Plant & Machinery	: ₹ 7078 Lakhs
Cost of Project	: ₹ 146872 Lakhs
Rate of Return	: 16%
Break Even Point	: 12

7-Aminocephalosporanic Acid (7-ACA)

The major factors driving the synthetic chemical API market are patent expiration of synthetic (small molecule drugs), increasing number of small molecules in clinical trials, increasing outsourcing by the pharmaceutical companies, CMOs investments to expand manufacturing facilities, rise in incidence of chronic and age-related diseases, rapid growth in oncology market, technological advancement like cryogenic and continuous flow manufacturing. Based on the customer, the synthetic API is further divided into branded API and generic API.

PROJECT COST ESTIMATE CAPACITY

7-Aminocephalosporanic Acid	: 2 MT / Day
Plant & Machinery	: ₹ 1791 Lakhs
Cost of Project	: ₹ 3419 Lakhs
Rate of Return	: 28%
Break Even Point	: 46%

Castor Oil from Castor Seeds

The global castor oil market was \$1,180 million in 2018 and is expected to touch \$1,470 million by the end of 2025, growing at a CAGR of 2.8 per cent between 2019 and 2025. The market is currently being driven by the increasing demand in various industrial applications such as paints, soaps, lubricants, befouls, and other sectors. The market value is expected to grow at a CAGR of 3.6% in the forecast period of 2020-2025. Thus, due to demand it is best to invest in this project.

PROJECT COST ESTIMATE CAPACITY

Castor Oil	: 5 MT / Day
Castor De-Oiled Cake	: 7.2 MT / Day
Plant & Machinery	: ₹ 106 Lakhs
Cost of Project	: ₹ 374 Lakhs
Rate of Return	: 29%
Break Even Point	: 64%

Branded API accounted the largest share in 2018 and is expected to grow at a mid-single digit CAGR from 2018 to 2025. Generic API is expected

to grow at a high single digit CAGR from 2018 to 2025, due to Patent expiry of blockbuster drugs, rising healthcare expenses, increasing outsourcing and shift towards the generic medicines led by the government initiatives. Entrepreneurs who invest in this project will be successful.

Vinyl & Latex Surgical Gloves

The India disposable gloves market was valued at \$303 million in 2017, and is expected to reach \$760 million by 2025, growing at a CAGR of 12.4% during the forecast period. In terms of volume, the natural rubber gloves segment accounted for more than two-fifth of the total market share in 2017. The growth of disposable gloves market in India is driven by growing awareness about hygiene, disease prevention, and safety among the Indian populace coupled with surge in the number of end users. Moreover, technological advancements in manufacturing gloves and unprecedented growth of the healthcare sector are expected to provide lucrative opportunities to market players in the near future. However, limitations in production capacity and toxic reactions associated with the use of certain gloves are expected to impede the market growth. Thus, due to demand it is best to invest in this project.

PROJECT COST ESTIMATE CAPACITY	
Vinyl Gloves (Wt. 5.5 gms each)	: 75,000 Pairs/Day
Latex Surgical Gloves (Wt. 4 gms each)	: 75,000 Pairs/Day
Plant & Machinery	: ₹ 1153 Lakhs
Cost of Project	: ₹ 2325 Lakhs
Rate of Return	: 29%
Break Even Point	: 38%

Gypsum Plaster Board

The Indian market for Gypsum Plaster Board is expected to reach about 333.64 million m2 by 2021 from 221.75 million m2 in 2016, registering a Compounded Annual Growth Rate (CAGR) of 8.51% during the analysis period, 2016-2021BPB. UK took over the company and has acquired an 80% stock. The balance 20% of the capital is with the public. The Birlas (who owned Hyderabad Industries) completely withdrew from the company. It has been renamed as BPB India Gypsum. BPB India Gypsum, manufacturers of gypsum plaster board and universal plaster, was to double its production capacity shortly. Thus, due to demand it is best to invest in this project.

PROJECT COST ESTIMATE CAPACITY	
Gypsum Plaster Board	: 17,600 Sq.mt. / Day
Plant & Machinery	: ₹ 607 Lakhs
Cost of Project	: ₹ 3878 Lakhs
Rate of Return	: 33%
Break Even Point	: 35%

JCB Bucket Pin and JCB Tooth Nuts, Bolt and Pin Bush

Construction Industry in India has grown exponentially in the recent past. It would not be wrong to say that the industry is maturing in the process. JCB India on its part has been contributing to it by providing world class construction equipment. To cater to the growing needs of the industry, we have in the last decade expanded our range from a couple of models to 20 models and continue to do so. Since, the Indian conditions are unique, JCB is offering products specific to meet the rigors of Indian terrain and conditions. Specialized attachments such as the

sweeper collector, submersible pump, and hand held tool circuit, ditch cleaning bucket, etc. have been introduced to bring more mechanization and to tap newer segments. Thus, due to demand it is best to invest in this project.

PROJECT COST ESTIMATE CAPACITY	
JCB Bucket Pin 42 mm Diameter	: 1,666.7 Kgs / Day
JCB Bucket Pin Bush	: 1,666.7 Kgs / Day
JCB Bucket Tooth Nuts & Bolt	: 1,666.7 Kgs / Day
Plant & Machinery	: ₹ 147 Lakhs
Cost of Project	: ₹ 418 Lakhs
Rate of Return	: 27%
Break Even Point	: 56%

Urea Fertilizer

Growing health awareness globally has driven the demand for pulses owing to their dietary protein content. Pulses can convert and utilize the atmospheric nitrogen and hence consume less volume of fertilizers compared to the other crops. Both these crops have a demand-supply gap, as their annual yield does not meet the global requirement. These factors are anticipated to increase the usage of nitrogen fertilizers for the production of oilseeds & pulses, thus leading to an annual revenue growth rate of 5.1% from 2019 to 2025 in the market. Entrepreneurs who invest in this project will be successful.

PROJECT COST ESTIMATE CAPACITY	
Urea Fertilizer	: 972.2 MT / Day
Plant & Machinery	: ₹ 4320 Lakhs
Cost of Project	: ₹ 15110 Lakhs
Rate of Return	: 27%
Break Even Point	: 56%

Sanitary Napkins

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. Today, the global market for absorbent hygiene products is over US\$ 50 bn (including wipes). The evolution of hygiene products in Europe and the North America has taken 4 to 5 generations. Feminine care was introduced over 100 years ago. Baby diapers were invented 60 years ago. Adult incontinence products appeared 30 years ago. Thus, due to demand it is best to invest in this project.

PROJECT COST ESTIMATE CAPACITY	
Sanitary Napkins	: 16,800 Pkts. / Day (Each Packet = 6 Pcs.)
Plant & Machinery	: ₹ 42 Lakhs
Cost of Project	: ₹ 244 Lakhs
Rate of Return	: 28%
Break Even Point	: 63%

Recycled Polyester Fiber from used PET Bottles

The concern for Recycled PET (RPET) has escalated in the recent years. PET bottles, which form the major market of PET packaging resin (94%), are the most important from the point of recycling. More than 90% of PET is consumed in food packaging with drinks/

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SELECTED PROJECTS FOR RIGHT INVESTMENT

beverages forming almost 80% of the food packaging segment. Since drinks and beverages are consumed mostly in residential houses, railway stations, restaurants, entertainment venues, airports and other public places, the importance of organized

PROJECT COST ESTIMATE CAPACITY

Recycled Polyester Fiber	: 5,000 Kgs / Day
Plant & Machinery	: ₹ 73 Lakhs
Cost of Project	: ₹ 353 Lakhs
Rate of Return	: 28%
Break Even Point	: 53%

Maize Starch

This is mainly because the area under kharif maize (2016-17) saw a jump to 84.26 lakh ha. There is a bearish trend in the global maize market due to over production in key maize growing countries led by US. Given the global scenario which hints a surplus production this year and assuming the normal kharif maize area, the

collection and recycling of post-consumer PET bottles needs to be over emphasized. Entrepreneurs who invest in this project will be successful.

Agricultural Market Intelligence Centre projected the prices of maize at kharif harvest period of 2017-18. India corn starch market is estimated to be valued at 1.37 Billion in 2018 and is estimated to grow at a CAGR of 3.9% during the forecast period 2019-2024. Thus, due to demand it is best to invest in this project.

PROJECT COST ESTIMATE CAPACITY

Maize Starch	: 31 MT / Day
Germ Bye Product	: 5 MT / Day
Gluten Bye Product	: 3 MT / Day
Husk/Bran Bye Product	: 8 MT / Day
Steep Liquor Bye Product	: 2 MT / Day
Plant & Machinery	: ₹ 1124 Lakhs
Cost of Project	: ₹ 2349 Lakhs
Rate of Return	: 21%
Break Even Point	: 46%

Plastic Pyrolysis (Waste Plastic to Oil Conversion)

The global plastic waste to oil market is expected to increase from ~US\$ 45 Mn in 2019 to ~US\$ 100 MN by 2027. Plastic waste to oil can be defined as a technology that is used to convert non-recycled plastic into synthetic crude oil and other value-added petroleum products such as diesel, gasoline, naphtha, and fuel oil. This is an advanced waste conversion technology that is considered complementary to the existing plastic recycling technology. Plastic waste to oil technology has high potential, as landfill-bound plastics can be used as a resource to develop a valuable alternative fuel source. Entrepreneurs who invest in this project will be successful.

PROJECT COST ESTIMATE CAPACITY

Pyrolysis Oil	: 5 MT / Day
Carbon (by product)	: 1.67 MT / Day
Gas (by product)	: 1 MT / Day
Plant & Machinery	: ₹ 92 Lakhs
Cost of Project	: ₹ 312 Lakhs
Rate of Return	: 27%
Break Even Point	: 58%

Carbon Fibre

This sector consumed 15,000 tonnes of carbon fibres in 2012 and could reach 23,000 tonnes in 2016 and 37,000 tonnes in 2020. These figures are however less optimistic that those that were forecast by the specialists in previous years. Indeed, even if the pressure to use renewable energies is high and if legislation is in-

PROJECT COST ESTIMATE CAPACITY

Carbon Fibre	: 1,000 Kgs / Day
Plant & Machinery	: ₹ 194 Lakhs
Cost of Project	: ₹ 623 Lakhs
Rate of Return	: 27%
Break Even Point	: 63%

creasingly restrictive, the policies of the public authorities in terms of subsidies and development strategies (offshore wind farms, etc.) can have a decisive influence on the market for composites.

The carbon fiber market is projected to grow from USD 4.7 billion in 2019 to USD 13.3 billion by 2029, at a CAGR of 11.0% between 2019 and 2029. The market is growing due to its increasing demand from aerospace & defense, automotive, and wind energy industries. Entrepreneurs who invest in this project will be successful.

Carbon Black (Furnace Black Process)

The demand for carbon black in India stood at 984.63 thousand tonnes in 2018 and is projected to grow at a CAGR of 5.82% during 2019-2030 to reach 1853.84 thousand tonnes by 2030. Growth in the Indian packaging industry has increased the demand for carbon black in food packaging, industrial film, lamination and carrier bags and high-quality protective packaging applications. Furthermore, the Indian government's mission to make India a 100% electric vehicle nation by 2030 under the new National Electric Mobility Mission Plan is expected to push the demand for automobiles in the coming years. Thus, due to demand it is best to invest in this project.

PROJECT COST ESTIMATE CAPACITY

Carbon Black	: 33.3 MT / Day
Plant & Machinery	: ₹ 426 Lakhs
Cost of Project	: ₹ 1722 Lakhs
Rate of Return	: 27%
Break Even Point	: 50%

Roll Forming with Metal Beam, Highway Guard Crash Barrier and Galvanizing Plant

The market for roads and highways is projected to exhibit a CAGR of 36.16% during 2016-2025, on account of growing government initiatives to improve transportation infrastructure in the country. The road transport and highways ministry has prepared a draft Cabinet note on the Rs.2.6-lakh crore Bharat Mala project that envisages construction of 25,000 km of roads along India's borders, coastal areas, ports, religious and tourist places as well as over 100 district headquarters. Thus, due to demand it is best to invest in this project.

PROJECT COST ESTIMATE CAPACITY

Metal Beam Highway Crash Barrier	: 12.5 MT / Day
MS Sheet Scrap	: 2.5 MT / Day
Plant & Machinery	: ₹ 230 Lakhs
Cost of Project	: ₹ 954 Lakhs
Rate of Return	: 28%
Break Even Point	: 53%

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MARKET SURVEY

Cum

Detailed Techno Economic Feasibility Reports



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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.

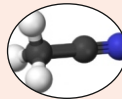
FOR ASSESSING MARKET POTENTIAL, INVESTMENT DECISION MAKING CORPORATE DIVERSIFICATION PLANNING ETC.

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



Chemicals, Biotechnology, Enzymes, Bio Fertilizer, Vermiculture, Vermicompost Chemical & Allied Industries and Alcohol Projects

- 2-4-Dichlorophenoxy Acetic Acid
- 2-propyl Heptanol
- Absolute Alcohol (Ethanol)
- Acetaldoxime or Acetaldehyde Oxime
- Acetate Tow for Cigarette Filters
- Acetic Acid from Natural Gas
- Acetonitrile
- Acetylene
- Acrylic Acid and Its Derivatives (Butyl Acrylate, Methyl Acrylate, Ethyl Acrylate)
- Acrylic Adhesives
- Activated Acid Washed Granules of Carbon
- Activated Carbon (By Steam Activation Process)
- Activated Carbon from Bamboo



- Activated Carbon from Cashew Nut
- Activated Carbon from Coconut Shell
- Activated Carbon from Rice Husk, Saw Dust & Coconut Shell
- Activated Carbon from Rice Husk/Coconut Shell
- Activated Carbon from Saw Dust
- Activated Charcoal from Wood
- Active Zinc Oxide from Zinc Ash, Secondary Zinc Waste & EAF Dust
- Active Zinc Oxide Production from Zinc Ash, Secondary Zinc Waste & EAF Dust. Zinc Waste Utilization.
- Adhesives Based on Polyurethane
- Admixtures for Concrete
- Alcohol Based Fuel Gel



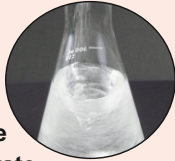
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SELECTED PROJECTS FOR RIGHT INVESTMENT

- ALKYD RESIN
- Alkyl Resin from Cotton Seed Oil
- Alum (Non-Ferric)
- Aluminium Fluoride
- Ammonium Chloride (Pure Grade)
- Ammonium Nitrate
- Ammonium Sulphate
- Amyl Acetate
- Amylase
- Anhydrous Ferric Chloride
- Antimony Potassium Tartrate
- Antimony Trioxide
- Azodicarbonamide
- B-Naphthol Methyl Ethyl (Yara-Yara)
- Bacteriological Grade Agar Agar
- Benzoyl Peroxide
- Benzyl Alcohol
- Biofertilizer from Birds Excreta
- Biofertilizer from Herbal Waste
- Biofertilizers From Cotton Seed Cake
- Biopesticides (Trichoderma Harzianum, Pseudomonas Fluorescens, Beauveria Bassiana)
- Bleaching Powder
- Bromelain Enzyme Production from Pineapple Stems
- Business Idea of Bleaching Powder Manufacturing
- Business Ideas of L-Ascorbic Acid (Plain)
- Cadmium Brightener
- Caffeine from Tea Waste
- Calcined Alumina Powder
- Calcium & Zinc Stabilizer for Pipe and Foam board Application
- Calcium Bromide
- Calcium Carbonate (Activated & Precipitated)
- Calcium Carbonate from Lime Stone
- Calcium Carbonate from Marble Chips
- Calcium D Saccharate
- Calcium Gluconate
- Calcium Hypochlorite
- Calcium Palmitate (Used as Cattle Feed)
- Calcium Propionate
- Calcium Propionate Manufacturing Industry
- Calcium Silicate
- Camphor Powder
- Camphor Sheet from Camphor Powder
- Carbon Fibers Composites
- Carboxy Methyl Cellulose (CMC)
- Castor Oil & Its Derivatives



- Cationic Softener
- Caustic Soda
- Caustic Soda Flakes from Sea Water
- Caustic Soda Lye
- Cellulose from Starch and CMC (Carboxymethyl Cellulose) and Poly Anionic Cellulose (Drilling Grade) -
- Cellulose Powder from Cotton Linter (Waste of Cotton)
- Cement Water Proofing Compound
- Charcoal from Bagasse
- Chlorinated Polyvinyl Chloride
- Choline Chloride
- Chromic Acid
- Ciprofloxacin
- Citric Acid
- Cobalt Octoate
- Coconut Shell Charcoal
- Copper Sulphate
- Copper Sulphate from Copper Scrap, Copper Ash, Industrial Waste Containing Copper Content
- Corrugated Carton Boxes Gum Powder (Tamarind Kernel Powder Base)
- Coumarin
- Cyanoacetic Acid
- D-Phenylglycine
- D.O.P.(Di-Octylphthalate)
- Detergent Powder
- Dibutyl Phthalate
- Disinfectants I.P. Grade for Hospital Use (Lysol Type)
- E.D.T.A. and Its Salts
- Enzyme (Alkaline Protease, Amylase, Cellulase, Laccase)
- Enzyme (in Powder Form)
- Ephedrine Hydro Chloride
- Epoxy Resin
- Ethanol as Biofuel
- Ethanol from Molasses (with Spent Wash Treatment)
- Ethyl Acetate
- Ethylene Oxide
- Ethylene Oxide by Ethylene Oxidation
- Fatty Acid Based on Sunflower Acid Oil
- Ferric & Non Ferric Alum
- Ferric Alum
- Ferric Chloride Solution
- Fluorine Chemical (Hydrofluoric Acid)
- Formaldehyde from Methanol
- Fortified Rosin (Used in Paper Industry)



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SELECTED PROJECTS FOR RIGHT INVESTMENT

- Fully Automatic Match Box with Match Sticks (Wooden Match Sticks & Waxed Strips) 
- Fulvic Acid
- Fulvic Acid Production Business
- Furfural from Bagasse and Corncobs
- Gelatin from Bone
- Geraniol Derivative and Alcohol Extract of a Pinene 
- Glacial Acetic Acid
- Glycerol Monostearate (NSE/SE Grade)
- Glycerol Monostearate Manufacturing Industry
- Gold Potassium Cyanide
- Grey Oxide (used in Automotive & Tubular Battery)
- Guar Gum Powder 
- Guar Hydroxy Propyl Triammonium Chloride
- Heavy Liquid Paraffin
- Heptaldehyde /Undecylenic Acid
- Hot Melt Adhesives
- Humic Acid
- Hydrated Lime Production from Limestone
- Hydrazine Hydrate
- Hydrogen Peroxide
- Hydrogen Peroxide (50% Concentrate)
- Hydrogen Peroxide (By Auto-oxidation Process)
- Hydroxylamine Sulphate
- Indian Made Foreign Liquor 
- Industrial and Pharmaceutical Grade Oxygen (500 Industrial Gas Cylinders and 500 Medicated Gas Cylinders)
- Industrial Enzymes
- Industrial Salt Processing 
- Insoluble Sulfur
- Jatropha Plantation and Oil Extraction (Used as Bio Fuel)
- L-lysine from Microbial Fermentation
- Laboratory Chemical Unit
- Lactic Acid
- Linear Alkyl Benzene Sulfonic Acid (LABSA) Business Plan for Production
- Linear Alkyl Benzene Sulphonic Acid
- Linear Alkylbenzene (LAB)
- Liquid Organic Fertiliser (Biofertiliser)
- Liquid Shoe Polish
- Litharge (Yellow Lead Oxide Barton Pot Process) 
- Low Carbon Ferro Manganese

- Lucrative Business Opportunities
- Production of Sodium Borohydride (Sodium Tetrahydridoborate) Using
- Trimethyl Borate.
- Magnesite from Magnesite Ore
- Magnesium Oxide (Specially Light Grade) from Dolomite
- Magnesium Sulphate (Fertiliser Grade)
- Magnesium Sulphate 
- Maize and its By-Products
- Maleic Anhydride
- Manganese from Ferro Manganese Alloy Slag Content 30% MnO₃
- Ascorbic Acid Opportunities for Entrepreneurs to Start Own Business in Vitamin C Industry.
- Ciprofloxacin Hydrochloride (CIPRO)– Active Pharma Ingredient
- Superplasticizer (Liquid Form)
- Vermicompost and Organic Manure
- Melamine Formaldehyde Powder
- Methyl Acrylate 
- Methyl Ethyl Ketone (MEK)
- Methyl Methacrylate (MMA)
- Methyl Methacrylate (Monomer) from Acrylic Scrap
- Metrodinazole
- Microcrystalline Cellulose (Pharmaceutical Grade)
- Micropropagation Growth of Tissue Culture
- Mixed Fertilizer (from Organic Waste)
- Mono Ethylene Glycol 
- Monosodium Glutamate (MSG)
- Morpholine
- Mosquito Repellent Liquidator, Vaporiser (All Out Type)
- Materials, Feasibility Study, Plant Layout
- Mosquito Repellent Liquidator
- Municipal Waste Treatment
- N-Acetyl Glucosamine through Chitin Biotechnically
- N-Butyl Acetate 
- Naphthalene Balls
- Neutralization of Phospho-Gypsum
- Nicotine from Tobacco Waste
- Nicotine Extraction from Tobacco Waste
- Nicotine from Tobacco Waste 
- Nitrocellulose
- Nitrocellulose Lacquer (NC Lacquer)
- Nitrous Oxide
- Optical Whiteners

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

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SELECTED PROJECTS FOR RIGHT INVESTMENT

- Oxalic Acid from Molasses
- Oxalic Acid from Rice Husk
- Oxygen and Nitrogen Gas Plant
- P-Toluene Sulfonic Acid
- Paint Additives (Anti Settling, Dispersing and Thickening Agents)
- Pectin from Apple Pomace
- Pentane (Low Boiling Hydrocarbon Varied Application)
- Pharmaceutical Tablets, Capsules, Liquid Oral, Ointment, Powder and Injection
- Phenol Moulding Powder
- Phenyl (Black & White)
- Photo Emulsion for Rotary Screen Printing
- Phthalic Anhydride
- Poly Acrylic Acid from Acrylo Nitrile
- Poly Aluminium Sulfate from Aluminium Sulfate
- Poly Aluminum Chloride
- Polylactic Acid (PLA)
- Polylactic Acid (PLA) from Lactic Acid
- Polyphenols / Antioxidants from Tea Extracts
- Polypropylene (PP)
- Polyvinyl Alcohol
- Potassium Chloride
- Potassium Iodate
- Potassium Nitrate from Potassium Chloride
- Potassium Silicate (As a Binder for Welding Rod)
- Potassium Silicate
- Potato Starch
- Precipitated Calcium Carbonate
- Precipitated Silica from Rice Husk
- Precipitated Silicate
- Production of Acetaldoxime or Acetaldehyde Oxime
- Formic Acid
- Methyl Ethyl Ketone (MEK).
- Pectin from Citrus, Lemon and Orange
- Calcium Propionate
- PVC Stabilizer (Lead Stearate & Calcium Stearate)
- Radiator / Engine Coolant
- Ferric oxide (Fe₂O₃) & Titanium Dioxide (TiO₂) from Bauxite Processing Waste
- Rectified Spirit
- Rosin Sizing Agent for Paper Plant
- Rubber Based Adhesive
- Silica from Rice Husk
- Silica Gel Crystal & Beads
- Silica Produced from Rice Husk Ash



- Silicon Emulsion
- Silicone Spray
- Silver Nitrate
- Soda Ash
- Sodium Azide
- Sodium Benzoate
- Sodium Bicarbonate from Soda Ash
- Sodium Borohydride using Trimethyl Borate
- Sodium Carboxy Methyl Cellulose
- Sodium Chlorite (NaClO₂) Direct Electrolysis Process from Sodium Chloride to Sodium Chlorite
- Sodium Hydrosulphite (Sodium Hydrosulfite)
- Sodium Hypochlorite (Bleach Liquor)
- Sodium Metabisulphite
- Sodium Nitrate and Sodium Nitrite from Nitric Acid Vapor of Oxalic Acid
- Sodium Percarbonate
- Sodium Petroleum Sulfonate
- Sodium Silicate (Soda Ash and Silica sand)
- Sodium Silicate from Rice Husk/Hull
- Sodium Sulphate (Anhydrous)
- Sodium Sulphide from Sulfur and Caustic Soda
- Solvent and Thinners
- Stabilized Insoluble Sulfur
- Hydrated Lime (Calcium Hydroxide) Production from Limestone (Calcium Carbonate)
- Stearic Acid
- Sulphur Black Dye
- Sulphur Powder
- Sulphuric Acid
- Surgical Methylated Spirit (Denatured Alcohol / Surgical Spirit)
- Synthetic Iron Oxide
- Synthetic Red & Yellow Iron Oxide and other Oxides of Iron
- Synthetic Tannin Powder for Leather Industry
- Tartaric Acid, Food Colour, Crude Pectine, Tamarind Oil and Tamarind Protein from Tamarind
- Textile Softeners (Cationic Anionic & Non Ionic)
- Tissue Culture
- Titanium Dioxide (Anatase Grade)
- Trichloroisocyanuric Acid
- Urea Formaldehyde Resin (Powder)
- Vat Dyes
- Vermicompost from Solvent Extracted



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SELECTED PROJECTS FOR RIGHT INVESTMENT

- Spice Waste
- Vermiculite
- Water Softener
- Water Treatment Chemicals (Antiscalants and Membrane Cleaners)
- Water Treatment Chemicals (R.O., Boiler and Cooling Tower)
- White Oil from Kerosene Oil
- Wire Drawing Lubricants



- Yeast from Molasses
- Yellow Dextrin
- Zeolite 4A
- Zinc Chloride
- Zinc Oxide (by Chemical Process)
- Zinc Oxide from Zinc Dross
- Zinc Sulphate
- Zinc Sulphate 21% (Agriculture Grade)



Soap, Detergents, Surfactants, Cleaners, Cleaning Powder, Laundry Care, Fabric Care and Wash, Household and Industrial Detergents, Washing and Toilet, Liquid Soaps, Liquid Detergents, Acid Slurry Projects

- Acid Slurry (From Linear Alkyl Benzene)
- Aromatic Herbal Shampoo
- Blue Detergent Powder
- Cleaning Powder (Vim Type)
- Cleaning Powder for Utensils (Vim Type)
- Detergent Cake & Powder
- Detergent Cake & Washing Powder
- Detergent Cake
- Detergent Cake and Detergent Powder Manufacturing Industry
- Detergent Cake, Powder and Dish washing Detergent Cake and Powder
- Detergent Powder
- Dish Wash (Liquid & Soap Bar) and Detergent (Liquid Soap Bar and Powder)
- Floor Cleaner
- Floor Cleaners Making Business
- Glass Cleaner, Floor Cleaner & Toilet Cleaner
- Glycerin Bath Soap (Pears Type)
- Hand Sanitizer Manufacturing
- Laundry Soap
- Linear Alkyl Benzene (L.A.B)
- Liquid Detergent
- Liquid Floor Cleaners (Lizol & Easy Type)
- Liquid Hand Wash
- Natural Glycerine



- Nerol Soap and Detergent
- Optical Whiteners
- Production of Linear Alkyl Benzene Sulphonic Acid (LABSA)
- Liquid Washing Soap, Perfumed Bleach for the Wash of White Cloths, Toilet/Tiles Hard Stains Remover Liquid, Detergent Powder
- Liquid Washing Soap, Scouring Powder, Toilet/Tiles Hard Stains Remover Liquid & Detergent Powder
- Soap and Detergent Powder
- Soap Coated Paper
- Soap Noodles
- Soap Noodles Production from Vegetable Oil
- Stain Removers
- Surfactants (Hand Wash, Floor Cleaner, Toilet Cleaner, Phenyl Black and White, Glass Cleaner, Dish Wash
- Liquid, Air Freshener)
- Toilet and Herbal Soap
- Toilet Soap
- Toilet Soap Production Business
- Utensil Cleaning Bar
- Washing Soap and Washing Powder (Nirma Type)
- Zeolite 4A (Detergent Grade)



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Controlled Atmosphere Cold Storage

Controlled atmosphere storage is a system for holding produce in an atmosphere that differs substantially from normal air in respect to CO₂ and O₂ levels. Controlled atmosphere storage refers to the constant monitoring and adjustment of the CO₂ and O₂ levels within gas tight stores or containers. Controlled atmosphere (CA) storage involves maintaining an atmospheric composition that is different from air composition (about 78% N₂, 21% O₂, and 0.03% CO₂); generally, O₂ below 8% and CO₂ above 1% are used. Control Atmosphere cold storage mainly used for long-term storage of perishable fruits. In this type of cold storage, apart from temperature concentration of oxygen, carbon dioxide, ethylene and nitrogen is maintain as per the requirement of the storage material.

The estimated annual production of fruits and vegetables in the country is about 130 million tonnes accounting to 18 per cent of our agricultural output. Moreover, the lack of cold storage and cold chain facilities are becoming major bottlenecks in tapping the vast potential. Govt. of India promoting cold storage warehouse investments by providing subsidies up to 50% to 75% on Investment. The nationalized banks of India are also proving loans for cold storage projects. In the recent time cabinet also approved the amount of 6000 crore rupees for mega food processing projects. The country requires 3.5 crore tonne capacity cold storage facilities and this is a right time for starting a business in cold storage.

PROJECT COST ESTIMATE CAPACITY

CA Cold Store for Seasonal Fruits Like Apple	: 10,000 MT Per Annum
Plant & Machinery	: ₹ 690 Lakhs
Cost of Project	: ₹ 1195 Lakhs
Rate of Return	: 29%
Break Even Point	: 53%

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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106-E, KAMLANAGAR, OPP. MALL ST, DELHI - 110007 (INDIA)

Ph: 91-11-23843955, Mob.: +91-9097075054, +91-8800733955

Fax: 91-11-23845886

E-mail : npcs.india@gmail.com

Website : www.niir.org, www.entrepreneurindia.co

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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.

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(Dedicated to Global Industrial Development)

106-E, KAMLANAGAR, OPP. MALL ST,
(Nr. Delhi University), DELHI-7 (INDIA).

Ph.: 91-11-23843955

Mobile.: +91-9097075054, +91-8800733955,

E-Mail : npcs.india@gmail.com, info@niir.org

Web : www.niir.org, www.entrepreneurindia.co

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- Company Name
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- 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

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 &

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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