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About Us

NPCS is a well-known technical consultancy that focuses on Project Reports Compilation, and we have been following a tight system and procedure to assure only top quality in accordance with our clients' expectations in this rapidly increasing and changing market. We've created the list of the top projects to start your own business startups.



Highly Profitable Business Ideas for You

Detailed Project Report on Bromelain Enzyme from Pineapple Stems

Pineapple extract, commonly known as bromelain enzyme from pineapple stems, includes proteolytic enzymes obtained from the pineapple plant's flesh. These enzymes have been discovered to have anti-inflammatory qualities and to be beneficial to the digestive system, among other things, according to research. More research is needed, however, to confirm these findings and identify how bromelain can be utilised to cure illnesses or enhance overall health.

1. Bromelain softens dough by hydrolyzing gluten when added to it during baking. It also improves biscuit and bread quality and taste.

2. In the dairy sector, bromelain is utilised to prevent casein condensation during the cheese-making process.

3. Bromelain is used to tenderise meat in the meat industry.

4. Bromelain is utilised in cosmetics because of its skin regeneration and lightening properties.

PROJECT COST ESTIMATE Capacity

Capacity : 8 MT Per Day
Plant & Machinery : ₹ 170 Lakhs
Cost of Project : ₹ 656 Lakhs
Rate of Return : 28%
Break Even Point : 63%

5. Bromelain is used in the pharmaceutical business as well.

This enzyme is utilised in a variety of industries. Its economic importance is linked to pharmaceutical manufacture, digestive system effects, and the replacement of pepsin and trypsin in the treatment of pancreatic insufficiency.

The bromelain market is expected to reach a market size of \$1154.4 million by 2027, with a CAGR of 4.39 percent. Because of greater awareness of bromelain's benefits and its extensive use in the treatment of cardiovascular disorders, the bromelain market is predicted to grow.

Production of White Fused Alumina

White fused alumina is an extremely pure type of aluminium oxide that may be utilised with both stainless steel and aluminium. The fusion of high purity calcined alumina in electric arc furnaces produces White Fused Alumina (WFA).

White Fused Aluminium Oxide is a fused aluminium oxide with a high purity. Its white hue comes from the fact that it has less impurities than brown or pink fused aluminium oxide. Brown fused aluminium oxide has a higher friability than white fused aluminium oxide.

It's best for refractory applications where purity, chemical stability, or great refractoriness are important factors.

- Polishing cloth and abrasive tape materials
- Precision grinding wheels (bearing steel, etc.) and high-classed polishing grinding wheels
- Various lapping materials for

PROJECT COST ESTIMATE Capacity

White Fused Alumina (Al₂O₃ -99.73% and Na₂O -0.3%) : 80 MT Per Day
Plant & Machinery : ₹ 977 Lakhs
Cost of Project : ₹ 2532 Lakhs
Rate of Return : 27%
Break Even Point : 52%

metal, glass, crystal, semiconductor crystal, and other materials

- Electrical insulation materials, high-grade refractory materials, and other items

The global White Fused Alumina market is predicted to increase at a CAGR of 2.2 percent between 2021 and 2026, from 447.8 million USD in 2020 to 522.4 million USD by the end of 2026.

The alumina market is divided into abrasives, ceramics, refractories, metallurgy, and other applications. The ceramics category is predicted to have the highest CAGR during the projection period. Alumina that has been calcined is utilised to make sophisticated ceramics.

Start Production of Silica from Rice Husk Ash

In the concrete business, rice husk ash silica is a viable alternative to conventional sand, particularly in areas where sand is scarce. Silica is extracted from rice husk ash using high-temperature calcination and carbonization procedures to produce silicon dioxide, which can be used to concrete mixes to improve qualities like as strength, density, air entrainment, and freeze-thaw resistance.

1. Adhesive: Silica is used as a reinforcing and thickening agent, as well as to improve bond strength. When a liquid adhesive comes into touch with a solid surface, the dispersed silica particles within it solidify quickly. Adhesive based on natural and synthetic rubber.

2. Chappals: Silica is utilised in shoe soles because of its wear and tear durability, non-scuffing properties, and the ability to create compounds with light colours or even transparent materials.

3. Conveyor Belt & Transmission Belt: Due to its small particle size and complex aggregate structure, silica is employed to improve tear strength.

4. PVC Sheets: Silica improves pigment dispersion, acts as a separating agent and an absorbent to increase flow, and gives the compound a dry feel.

5. Railway Pads: Silica is utilised in railway pads for the following reasons:

7. Rubber Products and Rubber Hoses: In industrial rubber, silica gives higher strength and durability, as well as improved heat resistance and tear strength, to industrial Rubber Belts and Rubber Hoses.

8. Silicon Tubes: Silicone rubber is utilised in a variety of applications where its distinct qualities are advantageous. Many of these characteristics are heavily influenced by the type and amount of filler used in the compound.

PROJECT COST ESTIMATE

Capacity:

Silica	: 5.80 MT Per Day
Activated Carbon (by product)	: 0.64 MT Per Day
Sodium Carbonate (by product)	: 0.96 MT Per Day
Plant & Machinery	: ₹ 745 Lakhs
Cost of Project	: ₹ 1121 Lakhs
Rate of Return	: 27%
Break Even Point	: 45%

In 2019-20, the India silica market was worth USD 46.8 million. It is expected to grow at a CAGR of 6.5 percent in the next years. Because of its anti-caking and super absorption qualities, strong product demand in the food industry has helped the market gain traction in recent years.

Steel Shots & Grits (Steel Abrasives) Manufacturing Business

Steel shots are spherical grains formed by atomizing (granulating) molten steel; these cast steel shots come in a variety of diameters and hardnesses. Steel scrap is used to make steel shots. Steel scrap is melted in a furnace and then water jet atomized into shot. Steel shots produce the least amount of dust due to its gentle manufacturing technique. Heavy metal parts, such as engine turbine blades, crankshafts, and heavy-duty springs, are cleaned using steel shots.

Steel shot and grit are primarily used in surface preparation

PROJECT COST ESTIMATE

Capacity	: 40 MT Per Day
Plant & Machinery	: ₹ 722 Lakhs
Cost of Project	: ₹ 1884 Lakhs
Rate of Return	: 28%
Break Even Point	: 66%

to remove mill scale, dirt, and rust from metal surfaces, as well as to physically modify the metal surface, such as creating roughness for better paint and coating application, such as

powder coating, enamelling, painting, metallization, rubber bonding, and so on.

The growing market for steel abrasives is estimated to increase at a CAGR of 6.2 percent over the forecast period (2019-2026). From 2017 to 2023, the global steel abrasives market is predicted to grow at a CAGR of 6.5 percent, from \$34,615 million in 2016 to \$53,634 million in 2023. Abrasives are used to give a superior polished surface finish during manufacture in the automotive, electronics, construction, and industrial industries.

Peanut Butter Manufacturing Business Plan

Peanut butter is a food paste or spread produced from ground dry roasted peanuts, also known as ground-nut butter or pindjur. Salt and sweeteners (honey, sugar), as well as stabilisers, are frequently used to change the taste or texture (xanthan gum, lecithin). Peanut butter is widely consumed in a variety of countries and cultures. On breads, muffins, bagels, toast, and even sandwiches, it can be used as a substitute for other nut butters like almond or cashew butter.

PROJECT COST ESTIMATE

Capacity	: 10 Ton Per Day
Plant & Machinery	: ₹ 128 Lakhs
Cost of Project	: ₹ 1038 Lakhs
Rate of Return	: 30%
Break Even Point	: 45%

It can also be used to make crackers and cookies, mixed into smoothies, and used as a sandwich filling, among other things. Peanut butter is a paste or spread made from pulverized dry roasted

peanuts and occasionally other nuts like hazelnuts or almonds.

In value terms, the Indian butter market was worth INR 420 crore in 2011-12. Cheese spread, on the other hand, is predicted to reach a market value of 5473 metric tonnes by the end of the forecast period. From 2017-18 to 2022-23, the peanut butter market is predicted to rise at a rate of more than 10%. With a CAGR of 13% between 2018 and 2023, the India Peanut Butter market will be worth 3.3 billion dollars in 2023.

A Complete Business Plan for Lithium Ion Battery (Battery Assembly)

Lithium ion batteries are the most widely used power source in portable electronics, such as cell phones, tablets, laptops, and even electric vehicles. They're used in these gadgets because they're light and have a high energy density, which means they pack a lot of power into a small package. However, the process of building lithium ion batteries involves many distinct phases, and it can be difficult to ensure that each component is fitted correctly so that the batteries work well when you use them later.

(1) Li-ion batteries are commonly found in cameras and calculators.

(2) They're in cardiac pacemakers and other implantable medical devices.

(3) Telecommunications equipment, instruments, portable radios and televisions, and pagers all use them.

(4) They're used in laptop computers, cell phones, and aerospace applications.

During the forecast period of 2018-2023, the India lithium-ion battery market is expected to grow at a robust CAGR of 29.26%. The Indian automobile industry is one of the most important in the country, accounting for roughly 7% of the country's GDP. In April-March 2017, the industry produced 25.31 million vehicles, including commercial, passenger, two, and three-wheeled vehicles, and commercial quadricycles, compared to 24.01 million in April-

March 2016.

The Indian automobile industry is one of the most important in the country, accounting for roughly 7% of the country's GDP. In April-March 2017, the industry

PROJECT COST ESTIMATE

Capacity	: 150 Nos per day
Plant & Machinery	: ₹ 155 Lakhs
Cost of Project	: ₹ 708 Lakhs
Rate of Return	: 27%
Break Even Point	: 63%

produced 25.31 million vehicles, including commercial, passenger, two, and three-wheeled vehicles, and commercial quadricycles, compared to 24.01 million in April-March 2016.

Profitable Business of Lithium Ion Battery Pack

A lithium ion (li-ion) battery is made up of two electrodes separated by an electrolyte. There are three layers in practically all lithium-ion batteries: two electrodes (the cathode and anode), separated by a separator layer consisting of synthetic organic polymer material. The cathode (top electrode) is negatively charged, whereas the anode (bottom electrode) is positively charged. The separator works as an insulator, preventing charges from easily travelling between the electrodes until electrons are moved through it from one electrode to the next by a device or power source.

PROJECT COST ESTIMATE

Capacity:

<i>Lithium Ion Battery Module Cap. 0.4 KWH</i>	:	595.2 Module Per Day
<i>Lithium Ion Battery Module Cap. 4.8 KWH</i>	:	48.8 Module Per Day
<i>Lithium Ion Battery Module Cap. 5 KWH</i>	:	46.8 Module Per Day
<i>Lithium Ion Battery Module Cap. 10 KWH</i>	:	23.4 Module Per Day
Plant & Machinery	:	₹ 36 Cr.
Cost of Project	:	₹ 50 Cr.
Rate of Return	:	27%
Break Even Point	:	41%

A lithium iron phosphate (LFP) battery is a form of lithium-ion battery that, when compared to other types of batteries, can charge and discharge

at rapid speeds. It's a rechargeable battery whose cathode material is LiFePO₄; hence the name.

During the period of 2019 to

2024, India's lithium-ion battery market is predicted to increase at a CAGR of 34.8%. Factors such as the falling price of lithium-ion batteries and the advent of new and intriguing markets.

The lithium-ion battery market in India is likely to be driven by electric vehicles and energy storage systems (ESS) for both commercial and residential applications. The lack of significant reserves required for lithium-ion battery manufacture is projected to represent a challenge to local production and the lithium-ion battery market in the country.

Start Malic Acid (Powder)

Production Business

Malic acid is a dicarboxylic acid that occurs in nature as L-malic acid. Another optically active isomer is D-malic acid which can be synthesized as the racemic mixture of DL-malic acid. Malic acid is commonly referred to as 'apple acid' because of its high concentration in apples.

Malic acid is produced in the metabolic cycles of humans, plants, and animals. In the Krebs and glyoxyl atecycles, malic acid provides cells with the carbon skeleton and energy necessary for amino acid formation.

PROJECT COST ESTIMATE

Capacity

Capacity	:	3.3 MT Per Day
Plant & Machinery	:	₹ 391 Lakhs
Cost of Project	:	₹ 1285 Lakhs
Rate of Return	:	12%
Break Even Point	:	61%

Malic Acid has a wide range of applications in the food industry (beverages, candies, chewing gums, jellies, jams, frozen confectionery), animal foodstuffs (pet food, mixtures of acidifiers for pigs), treatment of metals, metal plating, pharmaceutical and cosmetic industry and in building materials.

The global malic acid market size was estimated at USD 182.6 million in 2020 and is expected to register a CAGR of 5.0% over the period 2020-2025. Rising demand from the food and beverage industry to enhance flavour through specialty ingredients is estimated to drive industrial growth over the forecast period.

Increasing demand for nutritional bars and protein drinks and the rising preference for healthier functional beverages with high nutrient flavours are estimated to drive the market in the years to come.

PVC Edge Banding Tape Manufacturing Business

Any piece of trim that conceals a finished or unfinished edge, such as on doors and windows, is known as an edge band. A PVC edge band may be used to replace both wood and metal-look edging. It's extremely durable and looks beautiful thanks to its textured finish, giving your home a high-end appeal at a low cost. Here are some of the benefits of using PVC edge banding tape in your home. When Should PVC Edge Banding Tape Be Used?

Edge banding can be used for a variety of jobs around the house, including: PVC edge banding can be used to replace damaged or missing door casing. Replace any window mouldings that appear to be cheap. Carpets at the base of the baseboards should be replaced. Make basic doors look more appealing. You don't have to spend a lot of money to get an expensive interior designer style. Using our all-purpose adhesive (Industrial Strength) for rapid and

permanent results makes DIY projects a breeze.

During the assessment period, the India edge banding materials market is expected to grow at an excellent CAGR of 11%. Increased investments in India's construction sector, a major increase in the number of building projects across the residential sector, technological developments, increased creativity in the interior design arena, and an increase in R&D activities are all contributing to market growth.

PROJECT COST ESTIMATE

Capacity

PVC Edge Banding Tape (Size 22 mm, 50 mter, 1 mm Roll)	:	303,030 Meter Per Day
Plant & Machinery	:	₹ 372 Lakhs
Cost of Project	:	₹ 1383 Lakhs
Rate of Return	:	30%
Break Even Point	:	47%

Manufacturing of Ascorbic Acid (Powder) from Sorbitol

Ascorbic acid, also known as vitamin C, is an essential nutrient that the body does not produce naturally but must obtain from outside sources to stay healthy. Because it performs so many functions, taking in enough vitamin C every day can be difficult if you're not aware of what it does and where you can find it.

Vitamin C helps your body form collagen, boosts your immune system, helps wounds heal faster and reduces the chance of certain cancers developing by neutralizing free radicals in your body.

Based on grade, the global ascorbic acid market has been

PROJECT COST ESTIMATE

Capacity:

<i>Ascorbic Acid (Powder)</i>	:	8.3 MT Per Day
<i>Carbon Di-oxide by Product</i>	:	11.6 MT Per Day
<i>Sodium Hydroxide by Product</i>	:	7.7 MT Per Day
Plant & Machinery	:	₹ 803 Lakhs
Cost of Project	:	₹ 2444 Lakhs
Rate of Return	:	29%
Break Even Point	:	48%

segmented into pharmaceutical grade and food grade. Food grade segment is expected to register significant revenue growth over the forecast period owing to increasing demand for food and beverages fortified with vitamin C, rising use of ascorbic acid as

food additive and acidity regulator, and as a main source of vitamin C in supplements.

Asia Pacific market revenue is expected to expand at a CAGR of 5.5% during the forecast period owing to increasing manufacturing of vitamin C, increasing investment in R&D activities to develop

effective vitamin C supplements, rapidly growing food and beverage industry due to increasing focus on functional foods and rapid urbanization, changing lifestyle and increasing disposable, and growing demand for vitamin C-enriched cosmetic products.

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.

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.

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%

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.

Battery Sprayer

A sprayer is a device used to spray a liquid, where sprayers are commonly used for projection of water, weed killers, crop performance materials, pest maintenance chemicals, as well as manufacturing and production line ingredients. In agriculture, a sprayer is a piece of equipment that is used to apply herbicides, pesticides, and fertilizers on agricultural crops. Sprayer is a machine used to apply liquid chemicals on plants to control pest and diseases. It can also be used to apply herbicides to control weeds and to spray micro-nutrients to enhance plant growth.

A significant proportion of farmers in the country have already started moving from using animate sources to mechanical equipments to power their farming activities. Mechanical equipments for various farm operations like tillage, sowing, irrigation, plant protection and threshing, etc., are generally being used by the farming community. The Agricultural Sprayers Market can be segmented on the basis of type, component,

PROJECT COST ESTIMATE

Capacity

Capacity	: 400 Pcs Per Day
Plant and Machinery	: ₹ 16 Lakhs
Cost of Project	: ₹ 110 Lakhs
Rate of Return	: 29%
Break Even Point	: 73%

power source, and application. Based on type, the market is segmented into low pressure sprayers and high-pressure sprayer. Low pressure sprayer is further segmented into tractor mounted, high clearance sprayer, trailer-mounted sprayers and truck mounted sprayers. Fuel-based sprayer are dominating the global agriculture spray market due to its raising demand owing to its large capacity. Solar sprayer is considered to be the fastest growing segment due to increasing demand for environmentally friendly agriculture sprayer across the globe.

Toughened Glass

Toughening is a process where the glass is heated at high temperatures to make it stronger and more resistant to breakage. This process creates a balance in the product's internal stresses, so that when the glass is broken, it would crumble into tiny granular chunks instead of breaking into sharp, jagged pieces. Toughened glass is a type of safety glass processed by controlled thermal or chemical treatments to increase its strength compared with normal glass.

The global glass market size was valued at USD 68.71 billion in 2014. It is expected to attain a CAGR of nearly 7.1% from 2015 to 2022. Increasing use of flat glass in photovoltaic modules, solar panels and e-glass owing to rising need for clean energy

PROJECT COST ESTIMATE

Capacity

Toughened Glass (Size of Sheet 8 ft. x 12 ft.)	: 4,000 Sq. Ft. / Day
Plant & Machinery	: ₹ 332 Lakhs
Cost of Project	: ₹ 939 Lakhs
Rate of Return	: 24%
Break Even Point	: 46%

is anticipated to be one of the key trends escalating market growth. Toughened Glass Market size was over USD 24.5 billion in 2016 and industry expects consumption above 4.3 billion square meters by 2024.

Increasing demand for furniture including table tops, shelves and cabinets and other interior applications should stimulate toughened glass market size. Toughened glass market size from furniture applications should witness significant gains up to 2024 owing to increasing demand for innovative furniture designs for interior applications accompanied with improving lifestyle patterns of consumers. As a whole any entrepreneur can venture in this project without risk and earn profit.

Composite Materials

(Carbon Fibre Composites & Glass Fibre Composites)

The future of the composites market looks attractive with opportunities in the transportation, construction, wind energy, pipe & tank, marine, consumer goods, electrical and electronics, aerospace, and others. The composite materials market is expected to reach an estimated \$40.2 billion by 2024 and it is forecast to grow at a CAGR of 3.3% from 2019 to 2024. The composites end product market is expected to reach an estimated \$114.7 billion by 2024. Thus, due to demand it is best to invest in this project.

PROJECT COST ESTIMATE

Capacity:

Carbon Fibre Composite Laminate	: 833.3 Sq. Mt. / Day
M2 width 1500 mm	
Glass Fibre Composite Laminate	: 833.3 Sq. Mt. / Day
M2 width 1500 mm	
Plant & Machinery	: ₹ 115 Lakhs
Cost of Project	: ₹ 452 Lakhs
Rate of Return	: 29%
Break Even Point	: 67%

Natural Rubber Block

Natural rubber, also called by other names of India rubber, latex, Amazonian rubber, gaoucho or caoutchouc, as initially produced, consists of polymers of the organic compound isoprene, with minor impurities of other organic compounds, plus water. Thailand and Indonesia are two of the leading rubber producers. Natural rubber is used extensively in many applications and products, either alone or in combination with other materials. In most of its useful forms, it has a large stretch ratio and high resilience, and is extremely waterproof. Latex is the polymer cis-1,4-polyisoprene – with a molecular weight of 100,000 to 1,000,000 daltons.

Natural rubber is an elastomeric and a thermoplastic.

PROJECT COST ESTIMATE

Capacity

Capacity	: 24 MT Per Day
Plant & Machinery	: ₹ 402 Lakhs
Cost of Project	: ₹ 1211 Lakhs
Rate of Return	: 29%
Break Even Point	: 50%

Once the rubber is vulcanized, it is a thermos. Most rubber in everyday use is vulcanized to a point where it shares properties of both; i.e., if it is heated and cooled, it is degraded but not destroyed.

India's natural rubber imports in 2018/19 surged to a record high as production dropped amid a rise in consumption, the state-run Rubber Board said on May

3. The country's production fell 7.5 percent from a year ago to 642,000 tones, while consumption jumped 9 percent to a record 1.21 million tones, the board said.

The world production of rubber was considered to be very unstable during the last few years. Comparatively, India's production of rubber is consistent at the rate of 6% per annum. The Rubber industry in India is growing with its roots deeper. India is the 3rd largest consumer, while the largest producer of natural rubber in the world. The Rubber Board has received approval to encourage block rubber production, which is expected to mark a new channel for rubber processing in the domestic sector.

Microbrewery

Although the term "microbrewery" was originally used in relation to the size of breweries, it gradually came to reflect an alternative attitude and approach to brewing flexibility, adaptability, experimentation and customer service. The term and trend spread to the US in the 1980s and was eventually used as a

designation of breweries that produce fewer than 15,000 U.S. beer barrels (1,800,000 liters; 460,000 U.S. gallons) annually. A microbrewery or craft brewery is a brewery that produces small amounts of beer (or sometimes root beer), typically much smaller than large-scale corporate breweries, and is independently owned. Such breweries are generally characterized by their emphasis on quality, flavour and brewing technique.

Beer is globally the third most popular drink after

PROJECT COST ESTIMATE

Capacity

Microbrewery (650 ml Size Bottle)	: 1538 Nos. Per Day
Plant & Machinery	: ₹ 171 Lakhs
Cost of Project	: ₹ 397 Lakhs
Rate of Return	: 13%
Break Even Point	: 60%

effective rates, a variety of innovative startups have aplenty of ideas for diverse flavors, events and apps that could facilitate customers to indulge.

The market for microbreweries is still developing. Today, only 4-5 states have established microbreweries that are essentially resto-bars where one can consume fresh-off-the-tap beer that has been brewed in-house. These microbreweries produce between 5,000 and 50,000 litres of beer, a day.

water and tea. Growing at a CAGR of 2.4%, it is projected that the global beer market will reach approximately USD 636 billion by 2020. The Indian beer market is expected to grow and cross 430 billion by the end of 2017, as per the research of All India Brewers' Association (AIBA). Tapping brewed beer market at cost-

Biomass Briquettes from Bio Waste

Among the non-conventional forms of Energy, Bio-Energy offers vast potential under Indian conditions, due to the wide spectrum of BIOMASS available in different agro-climatic regions of the country.

Worldwide, the energy stored in biomass through photosynthesis is approximately 3×10^{21} J (90% in trees) every year, which is nearly 10 times the world's annual energy use. Even through the total renewable biomass resource for energy far exceeds the world's total energy requirement, its volume exploitation remains limited because of the present low cost of fossil fuels, the heterogeneous nature of biomass, and the area over which the biomass must be collected for large-scale applications.

Biomass feed, especially agro-residues, is available in different forms, such as husks, straw, and stalks of various and numerous crops. Due to this heterogeneous nature, the utility of these materials for energy becomes limited, and energy conversion processes tend to become biomass specific. Biomass briquettes are a proven way of generating energy from bio-waste. Different types of waste have been utilized in order to develop biomass briquettes. Biomass briquettes derived from Mustard, Cotton, Guar, Saw Dust and Peanut shell Agro waste could result in feasible on-site fuel production.

PROJECT COST ESTIMATE

Capacity

Capacity	: 20 MT Per Day
Plant & Machinery	: ₹ 52 Lakhs
Cost of Project	: ₹ 94 Lakhs
Rate of Return	: 20%
Break Even Point	: 73%

Biomass briquettes can typically provide between 3-15 per cent of the input energy into the power plant. The objective behind the move, is to reduce air pollution caused due to burning of surplus biomass residue in fields by creating an alternate market for its large-scale utilisation in power plants as well as reduce carbon emission from coal-fired power plants.

The global Biomass Briquette market is valued at 320 million US\$ in 2017 and will reach 570 million US\$ by the end of 2025, growing at a CAGR of 7.3% during 2018-2025. The global biomass briquettes market is segmented into North America, Latin America, Western Europe, Eastern Europe, the Middle East and Africa, and Asia Pacific. Of these regions, Europe and North America are expected to be key regions for the growth of this market over the forecast tenure. The utilization of the biomass briquettes production technologies is high to convert their biomass into useful energy sources.

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%

Whole Wheat Processing Unit to Extract VWG and Starch Milk to Fermentation for Ethanol

Wheat is produced in 120 countries and accounts for about 19 percent of the world's calorie supplies. It is used primarily as flour for making bread, pastry, pasta and noodles etc. It is also used to feed livestock, with the feed used for accounting for about 17 percent of global wheat consumption. In addition the by-products from milling wheat into flour are used as feed. The annual global production of dry wheat is about 529 Tg. Asia (43%) and Europe (32%) are the primary production regions. India being the second larger producer of wheat after China and it can be considered as a promising substitute of corn for bioethanol. Secondly, a huge quantity of wheat is wasted every year due to mismanagement in the warehouses thus this waste wheat can also be utilized for bioethanol production.

Alcohol, also known by its chemical name ethanol, is a psychoactive drug that is the active

PROJECT COST ESTIMATE

Capacity:

Wheat Gluten Powder	: 11,000 MT Per Annum
Wheat Base Alcohol	: 18,000 MT Per Annum
Plant & Machinery	: ₹ 7542 Lakhs
Cost of Project	: ₹ 10073 Lakhs
Rate of Return	: 25%
Break Even Point	: 43%

ingredient in drinks such as beer, wine, and distilled spirits (hard liquor). It is one of the oldest and most common recreational substances, causing the characteristic effects of alcohol intoxication ("drunkenness"). Among other effects, alcohol produces a mood lift and euphoria, decreased anxiety, increased sociability, sedation, impairment

of cognitive, memory, motor, and sensory function, and generalized depression of central nervous system function. Ethanol is a type of chemical compound known as an alcohol, and is the only type of alcohol that is found in alcoholic beverages or is commonly used for recreational purposes; other alcohols such as and isopropyl alcohol are toxic.

India is one of the largest producers of alcohol in the world and contributes to 65% of production and nearly 7% of imports into the region. The precise estimate of unrecorded alcohol production is not clearly known. India is the largest whisky market in the world. And there is increasing demand for imported whisky and wine. Economic affluence, urbanization, changing lifestyles and social mores are all persuading young people to take to drinking. 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.

PROJECT COST ESTIMATE

Capacity:

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

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 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.

Charcoal from Biomass

Biomass charcoal briquettes are a biofuel substitute. Briquettes are mostly used in the developing world where cooking fuels are not as easily available. Briquettes are used to heat industrial boilers in order to produce electricity from steam. Biomass charcoal briquettes are made from agriculture waste, wood chips, coconut shell waste saw dust, groundnut shell waste etc. are a replacement for fossils fuels such as oil or coal, and can be used to heat boiler in manufacturing plants. Biomass briquettes are a renewable source of energy and avoid adding fossils carbon to the atmosphere.

Biomass charcoal briquettes are widely used for any type of Thermal application like steam generation in boilers, heating purpose, drying process & gasification plant to replace existing conventional fuel like coal, wood & costly liquid fuel like FO, Diesel, LDO, Kerosene etc.

On the basis of type, the charcoal market, biomass charcoal is estimated to contribute the largest share, of more than 67.0%, to the market in 2017. Biomass charcoal burns quickly and produces a high amount of heat on burning.

Owing to these properties, the demand for biomass charcoal is growing for barbecue cooking purposes. The global charcoal market is projected to reach \$6,492.8 million by 2023.

The global biomass briquettes market is segmented into North America, Latin America, Western Europe, Eastern Europe, the Middle East and Africa, and Asia Pacific. Of these regions, Europe and North America are expected to be key regions for the growth of this market over the forecast tenure. The utilization of the biomass briquettes production technologies is high to convert their biomass into useful energy sources. Entrepreneurs who invest in this project will be successful.

PROJECT COST ESTIMATE

Capacity

Capacity	: 4,500 MT Per Annum
Plant & Machinery	: ₹ 144 Lakhs
Cost of Project	: ₹ 271 Lakhs
Rate of Return	: 29%
Break Even Point	: 74%

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 deserts 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.

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.

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%

Biodegradable Plates & Bowls from Areca Tree Leaf

Areca Leaf Plates are made from areca leaf, which are eco friendly and sanitized, Manufacturing in high Quality in various standard designs in products range and can be exclusive designs based on the customer reference of shapes and sizes. The areca palm tree leaves are fresh in nature, thick, which is non-toxic, free from any chemicals and pest. The leaves are Eco-friendly in nature, lightweight, disposable and durable in nature.

The global biodegradable plastics market size was estimated at USD 2.56 billion in 2017. It is expected to expand at a CAGR of 12.8% during the forecast period. Governments prohibiting the use of single-use plastic coupled with rising awareness among public regarding ill-effects of plastic waste

PROJECT COST ESTIMATE	
Capacity:	
<i>Bio-Degradable Areca Leaf Round Plates (Size 10"/12")</i>	: 3200 Pcs Per Day
<i>Bio-Degradable Areca Leaf Round & Square Plates (Size 6")</i>	: 3200 Pcs Per Day
<i>Bio-Degradable Areca Leaf Round Bowls (Size 4.5")</i>	: 3200 Pcs Per Day
Plant & Machinery	: ₹ 36 Lakhs
Cost of Project	: ₹ 79 Lakhs
Rate of Return	: 14%
Break Even Point	: 77%

are among the key trends stimulating market growth.

This is projected to further augment the demand for paper cups and paper plates globally. Looking forward, the market is expected to reach a value exceeding US\$ 117 Billion by 2023, exhibiting a CAGR of more than 2% during 2018-2023. Disposable Plates Market is projected to grow at a CAGR of 5.9% during The Forecast Period 2017–2027. Overview Global Paper Cups and Paper Plates Market 2018, Demand by Regions, Share and Forecast to 2023. The global paper cups and paper plates market has witnessed a steady growth over the past several years. This can be accredited to rising health and sanitation awareness and growing demand from the food service sector.

Sugarcane Juice Preservation and Bottling Plant

Sugarcane juice is quite nutritious as it contains natural sugars, minerals like iron, magnesium, phosphorous, calcium and organic acids e.g. malic acid, succinic acid, acotinic acid etc. Preservation is done when Juice or food is kept for longer period without any deteriorated or spoils the juice by the direct contact with atmosphere. Sugarcane juice is excellent in treating urinary related diseases. It keeps the urine flow clear and aids the kidneys to perform better. Sugarcane juice relieves the burning sensation which arises due to infections of the urinary tract. The sugar cane juice provides the glucose, which is stored, as glycogen to be 'burned' by muscles when required. Sugar Industry contributes about 2500 crore rupees as tax to both central and state governments.

PROJECT COST ESTIMATE	
Capacity	
Capacity	: 48, 00,000 Ltrs. /Annum
Plant & Machinery	: ₹ 106 Lakhs
Cost of Project	: ₹ 467 Lakhs
Rate of Return	: 28%
Break Even Point	: 54%

The industry size in terms of capital is more than Rs. 40,000 crore. Almost 50 million people depend on sugar industry for their livelihood. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensure a high quality product.

Corn Starch Based Biodegradable Tableware

Rising awareness regarding the ill effects of plastic tableware, awareness about the benefits of environmental friendly tableware, increasing adoption of non-toxic and petroleum free products, increasing disposable income and extending investment in research and development are some of the significant factors that are projected to result in the market growth. Additionally, the sustainability trend has led to the packaging industry to adopt a change in the materials used by them. These sustainability-centered initiatives and the need for change in packaging formats along with other prominent industry trends have been impacting the packaging industry. This is evolving consumer preferences, cost constraints, e-commerce, and favorable government regulations for permitting biodegradable tableware market which is further estimated to boost the market growth with notable CAGR during the forecast period 2020-2028. Entrepreneurs who invest in this project will be successful.

PROJECT COST ESTIMATE	
Capacity:	
<i>Biodegradable Plate 9" Size (10 Pcs. Each Box)</i>	: 6,000 Nos / Day
<i>Biodegradable Bowl 6" Size (10 Pcs. Each Box)</i>	: 800 Nos / Day
<i>Biodegradable Cup (10 Pcs. Each Box)</i>	: 1,333.3 Nos / Day
<i>Biodegradable Lunch Box with Hinged Lid 650 ml (10 Pcs. Each Box)</i>	: 1,866.7 Nos / Day
Plant & Machinery	: ₹ 40 Lakhs
Cost of Project	: ₹ 159 Lakhs
Rate of Return	: 28%
Break Even Point	: 65%

Urea Formaldehyde UF85

Urea-formaldehyde (UF), also known as urea-methanal, so named for its common synthesis pathway and overall structure, is a non-transparent thermosetting resin or polymer. It is produced from urea and formaldehyde. These resins are used in adhesives, finishes, particle board, medium-density fibreboard (MDF), and molded objects. UF and related amino resins are a class of

thermosetting resins of which urea-formaldehyde resins make up 80% produced globally. Examples of amino resins use include in automobile tyres to improve the bonding of rubber to tyre cord, in paper for improving tear strength, in molding electrical devices, jar caps, etc.

PROJECT COST ESTIMATE	
Capacity	
Capacity	: 2 MT Per Day
Plant & Machinery	: ₹ 23 Lakhs
Cost of Product	: ₹ 125 Lakhs
Rate of Return	: 28%
Break Even Point	: 66%

In 2019, the market size of Urea Formaldehyde is 8390 million US\$ and it will reach 12800 million US\$ in 2025, growing at a CAGR of 5.4% from 2019. Wood flour and thermoplastic modified urea formaldehyde (UF) suspensions are blended to form a wood composite which can sustain impacts better than other similar composites. Wooden furniture market on a global forum

is expected to grow at a CAGR of around 5% during 2018-2022. However, volatile prices and availability of raw materials, availability of substitute compounds, and stringent government environment regulations are the key restraints for the urea formaldehyde market.

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- Manufacture of Thinners & Solvents (Properties, Uses, Production, Formulation with Machinery Details) 2nd Edn. Rev..... 1875/- 150

GUMS, ADHESIVES & SEALANTS, ROSIN & DERIVATIVES, RESINS AND OLEORESINS

- Gums, Adhesives & Sealants Technology (with Formulae & their Applications) 2nd Rev. Edn 1475/- 150
- Adhesives Formulary Handbook 1275/- 125
- Handbook on Speciality Gums, Adhesives, Oils, Rosin & Derivatives, Resins, Oleoresins, Katha, Chemicals with Other Natural Products 1275/- 125
- The Complete Book on Adhesives, Glues & Resins Technology (with Process & Formulations) 2nd Rev. Edn. 1675/- 150
- Phenolic Resins Technology Handbook (2nd Revised Edition) 1895/- 150
- The Complete Technology Book on Industrial Adhesives..... 1675/- 150
- The Complete Book on Gums and Stabilizers for Food Industry..... 1275/- 125
- The Complete Book on Water Soluble Gums and Resins 1675/- 150
- Handbook on Tall Oil Rosin Production, Processing and Utilization..... 1575/- 150

SYNTHETIC RESINS

- Modern Technology of Synthetic Resins & Their Applications (2nd Revised Edition)..... 1575/- 150
- Synthetic Resins Technology Handbook 1100/- 125
- The Complete Technology Book on Synthetic Resins with Formulae & Processes 1150/- 125
- Alkyd Resins Technology Handbook..... 1100/- 125
- Epoxy Resins Technology Handbook (Manufacturing Process, Synthesis, Epoxy Resin Adhesives and Epoxy Coatings) 2nd Revised Edition 1895/- 150

NAME OF BOOKS

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PETROLEUM, GREASES, PETROCHEMICALS, LUBRICANTS

- Modern Technology of Petroleum, Greases, Lubricants & Petrochemicals (Lubricating Oils, Cutting Oil, Additives, Refining, Bitumen, Waxes with Process and Formulations) 3rd Rev. Edn. .. 1995/- 150
- The Complete Book On Distillation And Refining of Petroleum Products (Lubricants, Waxes And Petrochemicals) 975/- 100
- Lubricating Oils, Greases and Petroleum Products Manufacturing Handbook..... 1475/- 150
- 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

WASTE MANAGEMENT, PRODUCTS FROM WASTE, MEDICAL, MUNICIPAL WASTE, E-WASTE, BIOMASS, MEDICAL & SURGICAL DISPOSABLE PRODUCTS

- Products from Waste (Industrial & Agro Waste) 2nd Edition ... 975/- 100
- Modern Technology Of Waste Management: Pollution Control, Recycling, Treatment & Utilization 975/- 100
- Handbook on Recycling & Disposal of –Hospital Waste Municipal, –Solid Waste, –Biomedical Waste, –Plastic Waste..... 1275/- 125
- Water and Air Effluents Treatment Handbook..... 1275/- 125
- The Complete Guide on Industrial Pollution Control 1275/- 125
- The Complete Book on Managing Food Processing Industry Waste ... 1275/- 125
- Handbook on Organic Waste for Biological Treatment, Liquid Manure into a Solid, Tomato Waste Water Treatment, Oxalic Acid from Jute Stick, Cotton Processing Waste, Fish Waste, Agro-Industrial Wastes, Bioconversion of Pretreated Wheat Straw and Sunflower Stalks to Ethanol, Agricultural Waste Treatment, Waste of Dehydrated Onion, Beef-Cattle Manure Slurry, Meat Meal and Algae for Calves, Wastes from Large Piggeries, Pig Waste, Oxytetracycline, Methane from Cattle Waste 1275/- 125
- Handbook on Medical and Surgical Disposable Products (Blood Bags, Plastic Gloves, I.V. Cannula, Infusion Set, Gowns, Masks, Catheter, Cotton and Bandage, Surgical Wear, Syringes)..... 1775/- 150
- Disposable Products Manufacturing Handbook (Plastic Cups, Cutlery, Paper Cups, Banana Leaf Plates, Facial Tissues, Wet Wipes, Toilet Paper Roll, Sanitary Napkins, Baby Diapers, Thermocol Products, PET Bottles) 1575/- 150
- The Complete Book on Biomass Based Products (Biochemicals, Biofuels, Activated Carbon) 1575/- 150
- The Complete Technology Book on E-Waste Recycling (Printed Circuit Board, LCD, Cell Phone, Battery, Computers) 3rd Rev. Edn. 1975/- 150
- The Complete Book on Waste Treatment Technologies (Industrial, Biomedical, Water, Electronic, Municipal, Household/ Kitchen, Farm Animal, Dairy, Poultry, Meat, Fish & Sea Food Industry Waste) 1675/- 150
- Manufacture of Value Added Products from Rice Husk (Hull) and Rice Husk Ash (RHA) (Precipitated Silica, Activated Carbon, Cement, Electricity, Ethanol, Hardboard, Oxalic Acid, Paper, Particle Board, Rice Husk Briquettes, Rice Husk Pellet, Silicon, Sodium Silicate Projects) 2nd Rev. Edition..... 1400/- 150
- Medical, Municipal and Plastic Waste Management Handbook..... 1275/- 125
- The Complete Book on Biological Waste Treatment and their Utilization 1675/- 150

WOOD AND ITS DERIVATIVES

- The Complete Technology Book on Wood and Its Derivatives 1100/- 125
- Bamboo Plantation and Utilization Handbook 1475/- 150

HERBAL PRODUCTS, AYURVEDIC, HERBAL & UNANI MEDICINES, DRUGS, NEEM, HERBS & MEDICINAL PLANTS CULTIVATION, COSMETICS, NATURAL PRODUCTS, JATROPHA

- Handbook on Unani Medicines with Formulae, Processes, Uses and Analysis (2nd Revised Edition) 1695/- 150
- Handbook on Herbal Drugs And Its Plant Sources 1000/- 100
- Herbal Foods And Its Medicinal Values 1275/- 125
- Herbal Cosmetics & Ayurvedic Medicines (Eou) (3rd Rev. Edn.).. 1475/- 150
- Handbook on Ayurvedic Medicines with Formulae, rocesses & Their Uses (2nd Rev. Edn.)..... 1475/- 150
- Herbal Cosmetics Handbook (3rd Revised Edition)..... 1875/- 150

NAME OF BOOKS	₹ / US\$
• The Complete Technology Book on Herbal Beauty Products with Formulations and Processes	1100/- 125
• Modern Technology of Cosmetics	1100/- 100
• Handbook of Herbal Products (Medicines, Cosmetics, Toiletries, Perfumes) 2 Vols.	1500/- 220
• Herbs Cultivation & Medicinal Uses.....	975/- 100
• Herbs Cultivation & Their Utilization.....	800/- 100
• Medicinal Plants Cultivation & Their Uses.....	975/- 100
• Compendium of Medicinal Plants.....	875/- 100
• Compendium of Herbal Plants.....	975/- 100
• Cultivation And Processing of Selected Medicinal Plants.....	1175/- 125
• Aromatic Plants Cultivation, Processing and Uses	975/- 100
• Cultivation and Utilization of Aromatic Plants.....	1100/- 125
• The Complete Book on Jatropha (Bio-Diesel) with Ashwagandha, Stevia, Brahmi & Jatamansi Herbs (Cultivation, Processing & Uses)	1500/- 150
• Handbook on Medicinal Herbs With Uses.....	1075/- 125
• Aloe Vera Handbook Cultivation, Research Findings, Products, Formulations, Extraction & Processing	1275/- 125
• Handbook on Herbs Cultivation & Processing	875/- 100
• Handbook of Neem & Allied Products	975/- 100
• Handbook on Herbal Medicines.....	750/- 100
• Handbook on Cosmetics (Processes, Formulae with Testing Methods).....	1675/- 150
• Handbook on Drugs from Natural Sources	1175/- 125

ESSENTIAL OILS, AROMATIC CHEMICALS, PERFUMES, FLAVOURS, FOOD COLOURS

• The Complete Technology Book of Essential Oils (Aromatic Chemicals (Reprint 2011)).....	1275/- 125
• Essential Oil Hand Book.....	975/- 100
• The Complete Technology Book on Herbal Perfumes & Cosmetics (2nd Rev Edn.).....	1275/- 125
• Modern Technology of Perfumes, Flavours and Essential Oils 2nd Edn.	975/- 100
• Food Colours, Flavours And Additives Technology Handbook	1000/- 100
• Food Flavours Technology Handbook.....	1075/- 125
• The Complete Technology Book on Flavours, Fragrances and Perfumes	1675/- 150
• Perfumes and Flavours Technology Handbook.....	1875/- 150

SOAPS, DETERGENTS, ACID SLURRY, TOILETRIES & DISINFECTANTS

• Modern Technology of Soaps, Detergents & Toiletries (With Formulae & Project Profiles) (4th Rev. Edn.).....	1275/- 125
• Herbal Soaps & Detergents Handbook.....	1275/- 125
• Handbook on Soaps, Detergents & Acid Slurry (3rd Rev. Edn.) ...	1575/- 150
• The Complete Technology Book on Detergents (2nd Rev. Edn.)..	1100/- 125
• The Complete Technology Book on Soaps (2nd Revised Edn.)	1425/- 150
• Surfactants, Disinfectants, Cleaners, Toiletries, Personal Care Products Manufacturing and Formulations (Phenyl, Naphthalene Ball, Mosquito Coil, Floor Cleaner, Glass Cleaner, Toilet Cleaner, Utensil Cleaning Bar, Liquid Detergent, Detergent Powder, Detergent Soap, Liquid Soap, Handwash, Hand Sanitizer, Herbal Shampoo, Henna Based Hair Dye, Herbal Cream, Shaving Cream, Air Freshener, Shoe Polish, Tooth Paste) 2nd Revised Edition	1895/- 200
• Soaps, Detergents and Disinfectants Technology Handbook (Washing Soap, Laundry Soap, Handmade Soap, Detergent Soap, Liquid Soap, Hand Wash, Liquid Detergent, Detergent Powder, Bar, Phenyl, Floor Cleaner, Toilet Cleaner, Mosquito Coils, Naphthalene Balls, Air Freshener, Hand Sanitizer and Aerosols Insecticide) (3rd Revised Edition).....	1595/- 150

GLASS, CERAMICS, COAL, LIGNIN & MINERALS

• The Complete Book on Glass & Ceramics Technology (2nd Revised Edition).....	1495/- 150
• The Complete Book on Glass Technology	1625/- 150
• The Complete Technology Book on Minerals & Mineral Processing	2200/- 200
• Handbook on Rare Earth Metals and Alloys (Properties, Extraction, Preparation and Applications).....	1875/- 150
• Hand book on Coal, Coke, Cotton, Lignin, Hemicellulose,	

NAME OF BOOKS	₹ / US\$
Wood, Wood-Polymer Composites, Lignocellulosic-Plastic Composites from Recycled Materials, Wood Fiber, Rosin and Rosin Derivatives	1875/- 150

ALUMINIUM, STEEL, FERROUS, NON-FERROUS METALS WITH CASTING AND FORGING, FERROALLOYS & AUTOMOBILE COMPONENTS

• The Complete Technology Book On Hot Rolling Of Steel	1575/- 150
• Steel Rolling Technology Handbook (2nd Revised Edition)	1775/- 150
• The Complete Book on Ferrous, Non-Ferrous Metals with Casting and Forging Technology.....	1575/- 150
• The Complete Technology Book on Aluminium and Aluminium Products	1450/- 150
• The Complete Technology Book on Steel and Steel Products (Fasteners, Seamless Tubes, Casting, Rolling of flat Products & others).....	1625/- 150
• The Complete Book on Ferroalloys (Ferro Manganese, Ferro Molybdenum, Ferro Niobium, Ferro Boron, Ferro Titanium, Ferro Tungsten, Ferro Silicon, Ferro Nickel, Ferro Chrome).....	2775/- 250
• Steel and Iron Handbook.....	1775/- 150
• Handbook on Steel Bars, Wires, Tubes, Pipes, S.S. Sheets Production with Ferrous Metal Casting & Processing	1775/- 150
• The Complete Book on Production of Automobile Components & Allied Products (Engine Parts, Piston, Pin, Piston Ring, Valve, Control Cable, Engine Mounting, Auto Lock, Disc Brake, Drum, Gear, Leaf Spring, Shock Absorber, Silencer, Chain, Cylinder Block, Chassis, Battery, Tyre & Flaps)	2275/- 200

FORMULARY (FORMULATION) BOOKS

• Selected Formulary Book on Cosmetics, Drugs, Cleaners, Soaps and Detergents (2nd Revised Edition)	1475/- 150
• Selected Formulary Book on Inks, Paints, Lacquers, Varnishes and Enamels	1475/- 150
• Selected Formulary Handbook.....	1475/- 150
• Selected Formulary Book on Petroleum, Lubricants, Fats, Polishes, Glass, Ceramics, Nitrogenous Fertilizers, Emulsions, Leather and Insecticides	2275/- 200

CONSTRUCTION MATERIALS, CEMENT, BRICKS, ASBESTOS

• The Complete Book on Construction Materials.....	1475/- 150
• The Complete Technology Book on Bricks, Cement and Asbestos.....	1400/- 150
• The Complete Technology Book on Asbestos, Cement, Ceramics and Limestone.....	1875/- 150
• Handbook on Gypsum and Gypsum based Products (Mining, Processing, Transportation, Handling & Storage, Gypsum Board, Plaster of Paris with Machinery & Equipment Details)	2275/- 200

EMULSIFIERS AND OLEORESINS

• The Complete Book on Emulsifiers with Uses, Formulae and Processes. (2nd Rev. Edn.)	1400/- 150
• Handbook on Oleoresin and Pine Chemicals (Rosin, Terpene, Derivatives, Tall Oil, Resin & Dimer Acids).....	2200/- 200

COLD STORAGE, COLD CHAIN & WAREHOUSE

• The Complete Book on Cold Storage, Cold Chain & Warehouse (with Controlled Atmosphere Storage & Rural Godowns) 5th Revised Edition.....	1650/- 150
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EACH DETAILED PROJECT REPORT (BUSINESS PLAN) CONTAINS



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**Market Survey
Cum
Detailed Techno
Economic
Feasibility
Reports**

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 Equipments 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 immediabely 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.



Waste Management and Recycling, Industrial Waste Management, Agro Waste, Municipal Garbage, Plastic, Paper, Metal, Iron, Glass, Rubber, Electronic, Medical Waste Recycling, Solid Waste Treatment, Agricultural, Wood Waste, Residue Processing

- » AAC Blocks (Autoclaved Aerated Concrete Blocks) Fly Ash Based
- » Absolute Alcohol from Molasses
- » Activated Carbon from Bamboo
- » Activated Carbon from Cashew Nut Shell
- » Activated Carbon from Coconut Shell
- » Activated Carbon from Coconut Shell, Rice Husk & Saw Dust
- » Activated Carbon from Saw Dust
- » Activated Carbon from Saw Dust & Coconut Shell
- » Activated Charcoal from Wood
- » Aluminium Alloy from Scrap and Virgin Metal
- » Aluminium Ingots from Aluminium Scrap
- » Aluminium Ingots from Used Beverage Cans
- » Aluminium Recycling Plant
- » Animal Feed from Bagasse
- » Animal Feed using Date Pits, Discarded Dates and



- other Ingredients (Barley, Bran, Oats, Soyabean Meal, Molasses, Vitamin and Minerals)
- » Artificial Sand from Stones and Waste Metals
- » Automated Vehicle Scrapping and Recycling Unit
- » Bagasse Based Cogeneration Power Plant
- » Billets from Steel Scrap by Electric Furnace
- » Bio Coal Briquettes from Agricultural Cellulosic Waste
- » Bio-Fertilizer from Birds Excreta
- » Biofertilizer from Herbal Waste
- » Biofertilizers from Cotton Seed Cake
- » Biogas Power Plant from Cow Dung
- » Biomass Briquettes from Bio Waste
- » Biomass Briquettes from Bio-waste
- » Biomass Gasification Power Plant
- » Biomass Pellets from Bio Waste
- » Biomass Power Generation Plant



- » Biomedical Waste Recycling
- » Bricks from Cow Dung
- » Bricks from Fly Ash
- » Bricks from Fume Dust
- » Caffeine from Tea Waste
- » Carbon Black from Oil of Tar
- » Carbon Black from Waste Tyres (Waste Tyre Pyrolysis)
- » Card & Gray Board from Pulp and Waste Paper
- » Card Gray Board from Pulp & Waste Paper
- » Cashew Nut Shell Liquid (using Waste Shell)
- » Cashew Shell Liquid & Kernel Processing
- » Cattle & Poultry Feed
- » Cattle Feed from Molasses & Bagasse
- » Cattle Feed from Tapioca
- » Cellulose Powder from Cotton Linter (Waste of Cotton)



Market Survey Cum Detailed Techno Economic Feasibility Report on all above Businesses are Available. Contact :

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SELECTED BUSINESS IDEAS FOR RIGHT INVESTMENT

- » Cement from Rice Husk
- » Cenosphere
- » Cenosphere from Fly Ash
- » Charcoal from Bagasse
- » Charcoal from Biomass
- » Charcoal from Coconut Shell
- » Charcoal Powder from Rice Husk
- » Chip Block (Compressed Wood)
- » Chipboard Industry



- » Clay and Sand Bricks Plant (Light Weight)
- » Co-Generation Power Plant Based On Bagasse
- » Coir Mattresses
- » Composite Materials-Carbon Fibre Composites & Glass Fibre Composites
- » Compound Wax from Residual Oil
- » Compressed Biogas
- » Copper Flats and Copper Tubes
- » Copper Sulphate from Copper Scrap, Copper Ash, Industrial Waste Containing Copper Content
- » Cotton Yarn from Waste Yarn
- » Crushed Stone
- » Depolymerisation of Waste Pet Scrap
- » Dextrin from Starch
- » Diaper (Baby and Adult) and Sanitary Napkins
- » Disposable Plastic Syringes and Needles
- » Disposable Plates from Banana Leaves
- » Drum Stick Powder
- » Egg Shell Powder



- » Electronics (E-Waste, E-Scrap) Recycling Plant
- » Ethanol from Molasses
- » Ethanol from Rice, Rice Straw, Rice Husk, Rice Bran
- » E-Waste & Lithium Battery Recycling Plant
- » E-Waste Recycling For Extraction of Precious Metals (Nickel, Tin & Zinc), Gold, Silver, Palladium
- » E-Waste Recycling Plant
- » E-Waste Recycling Plant (Electronic Waste, E-Waste, E-Scrap, or Waste Electrical and Electronic Equipment (WEEE))
- » Extraction of Gelatin Glue from Leather Waste
- » Extraction of Ultra-Pure Silicon from Rice Husk Ash
- » Fly Ash Beneficiation
- » Fly Ash Bricks by Triboelectric Beneficiation Process
- » Fly Ash Bricks from Limestone
- » Fuel Bricks from Ground Nuts, Soyabean Hulls and Jute
- » Fuel Briquettes from Agro Waste
- » Fuel Briquettes from Biomass (Bio Coal Briquettes from Agricultural Cellulosic Waste)
- » Furfural from Corncoobs, Rice Husk & Sugarcane Bagasse
- » Gelatin from Bones
- » Glucose from Broken Rice



- » Glue from Leather Waste
- » Hard Board from Bagasse
- » Iodised Salt (Free Flowing) From Sea Water
- » Iron Powder from Mill Scale Scrap
- » Kraft Paper from Bagasse
- » Kraft Paper from Waste Carton Boxes
- » Kraft Paper from Waste Paper
- » Lead Acid Battery Recycling
- » Lead Metal from Lead Ore
- » Lead Production (Litharge, Refined Lead, Red Lead & Grey Lead)
- » Lead Recycling (Smelting & Refining)
- » Lithium Battery & E-Waste (Electronic Waste) Recycling Industry
- » Methyl Methacrylate (Monomer) from Acrylic Scrap



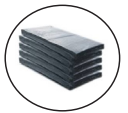
- » Methylated Spirit from Sugarcane Molasses
- » Mosquito Repellent Coils
- » Municipal Solid Waste (MSW) Management
- » Municipal Waste Treatment
- » Nicotine Extraction from Tobacco Waste
- » Nicotine from Tobacco Waste
- » Oxalic Acid from Molasses
- » Oxalic Acid from Rice Husk
- » Paper Bags from Waste
- » Paper Board
- » Paper from Bamboo
- » Paper from Hemp
- » Paper from Waste Paper
- » Paper from Waste Paper, Bamboo Chips, Rice Husk & Wheat Husk
- » Paper Manufacturing Plant with Pulp from Bamboo, Wood and Grass



- » Particle Board
- » Particle Board from Bagasse
- » Particle Board from Rice Husk
- » Pectin from Apple Pomace
- » Pet Bottle Recycling
- » Pet Recycling
- » Plastic Extruded Product (Slab Rod) From Plastic Scrap
- » Plastic Granules from Plastic Waste
- » Plastic Granules from Scrap
- » Plastic Granules from Waste
- » Plastic Granules Making From Scrap
- » Plastic Pyrolysis Plant (Waste Plastic to Oil Conversion)
- » Plastic Pyrolysis Waste Plastic to Oil Conversion
- » Plastic Waste Pyrolysis (Plastic to Oil Conversion)
- » Plastic Waste Recycling Plant
- » Plastic, Glass and Copper
- » Polyester Yarn from Waste
- » Polyphenols Antioxidants from Tea Extracts



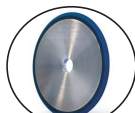
- » Poultry & Cattle Feed
- » Power Generation from Garbage
- » Precipitated Silica from Rice Husk Ash
- » Production of Caffeine
- » Reclaim Rubber
- » Reclaimed Rubber Sheet from Waste Tyre
- » Reclamation of Used Engine Oil
- » Reclamation of Used Engine Oil by Alkali Refining Process (Using Caustic Soda)
- » Recovery of Lead
- » Recovery of Lead from Scrap Batteries
- » Recovery of Zinc Metal from Zinc Ash
- » Rectified Spirit & Extra Neutral Alcohol (ENA)
- » Recycled Pet Polyester Fiber Manufacturing from Used Pet Bottles
- » Recycling of Waste Computer
- » Refining of Used Engine Oils for Making Base Oil
- » Re-Refining of Engine Oil, Transformer Oil & Hydraulic Oil
- » Rewinding of Burnt Electric Motors
- » Rice Bran Based Solvent Extraction Plant
- » Rice Bran Oil
- » Rice Bran Oil (Solvent Extraction)
- » Rice Bran Oil from Rice Bran
- » Rice Flakes from Broken Rice (used in Beer Industry)
- » Rubber Powder from Waste Tyre
- » Rubber Reclamation
- » Rumen by Pass Fat Used in Cattle Feed
- » Silica from Rice Husk Ash
- » Silver Extraction from Waste Hypo Solution, X-Ray Film, Colour Paper Bleach, Cinema Films etc. (by Chemical Process)
- » Sodium Silicate from Rice Husk Hull
- » Solid Waste Management
- » Steel Tubes from Scraps and PVC Pipe with 5MW HR Captive Power Plant
- » Straw Board and Mill Board from Rice Husk and Bagasse
- » Sugar Mill with Bio-Ethanol from Molasses
- » Tissue Paper from Recycled Paper
- » Used and Waste Oil Recycling Plant
- » Vermicompost
- » Vermicompost from Solvent Extracted Spice Waste
- » Waste Lubricating Oil Recycling
- » Waste Plastic to Oil Conversion
- » Waste to Wealth-Value Recovery from Agricultural and Industrial Biomass Residues
- » Waste Tyre (Tire) Utilization
- » Waste Tyre Pyrolysis
- » Wax from Slack Wax
- » Yeast from Molasses
- » Zinc Oxide from Zinc Dross



Abrasive, Asbestos, Cement, Refractory Products, Gypsum, Marble, Granite, Coal, Chalk and Silica



- » AAC Blocks Autoclaved Aerated Concrete Blocks Fly Ash Based
- » Abrasive Cloth Rolls (Abrasive Emery Cloth)
- » Abrasive Grinding Wheel
- » Abrasive Paper & Flint Paper
- » Admixtures for Concrete
- » Artificial Marble Tiles Manufacturing Industry
- » Artificial Sand from Stones and Waste Metals
- » Asbestos Cement Corrugated Sheet
- » Asphaltic Roofing Sheet



- » Bauxite Calcination Plant by Rotary Kiln with Fine Grinding Ball Mill
- » Bitumen
- » Bonded Abrasives
- » Bricks from Fly Ash
- » Bricks from Fume Dust
- » Calcination of Non Plastic Clay
- » Calcined Bauxite
- » Calcined Coke (by using Horizontal Kiln)
- » Calcium Silicate Blocks and Pipes
- » Cement from Rice Husk



- » Cement Plant
- » Cement Roofing Tiles
- » Cement Water Proofing Compound
- » Ceramic Table Ware, Hotel Ware, Stone Ware/Bone China
- » Clay and Sand Bricks Plant (Light Weight)
- » CLC Blocks (Cellular Light Weight Concrete Blocks) with Steam Curing Method
- » Clinker Grinding For Cement
- » Concentrated Manganese Ore
- » Concrete Block & Ready Mix Concrete



Market Survey Cum Detailed Techno Economic Feasibility Report on all above Businesses are Available. Contact :

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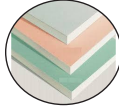
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- » Crucibles from Fire Clay
- » Dolomite Bricks
- » Electric PCC Poles
- » Fire Clay Bricks
- » Floor Polishing Stone
- » Fly Ash Bricks from Limestone
- » Fuel Bricks from Ground Nuts, Soyabean Hulls and Jute



- » Glass Reinforced Concrete
- » Granite (Marble) Polishing Batti (Bar)
- » Granite Block Cutting
- » Granite Tiles, Slab and Monuments
- » Graphite Mining and Processing
- » Gypsum Plaster Boards
- » HDPE PP Woven Fabric
- » Hydrated Lime



- » Insulator
- » Lime Bonded Fly Ash Brick
- » Magnesium Oxide Dead Burned Magnesia (DBM)
- » Meter Gauge Concrete Sleeper
- » Mini Cement Plant
- » Non Glazed Ceramic Tiles
- » Paper Bags for White Cement
- » Plaster of Paris Bandages



- » Portland cement
- » PP Bags for Cement
- » Pre Tensioned Prestressed Railway Sleepers
- » Precast Concrete Compound Wall
- » Precast RCC Sleeper for Railway Track
- » Prestressed Concrete Poles for Electrical HT and LT



- » Prestressed Concrete Sleepers
- » PSC Electric Poles
- » PVC Solvent Cement
- » Ramming Mass and Fire Bricks from Magnesite

- » Ready-Mix Concrete (RMC Plant)
- » Resin Bonded Diamond Wheels
- » Rock Sand



- » Rock Wool Base Slag
- » Rubberised Cork Sheet
- » Salt Glazed Stoneware Pipes & Fittings
- » Sand Lime Bricks Manufacturing

- » Stone Crusher
- » Tempering & Toughening of Flat Glass
- » Vitrified Floor Tiles
- » Wall Putty
- » Water Proofing Liquid and Powder (Concrete and Mortar Admixture)
- » AAC Blocks Autoclaved Aerated Concrete Blocks Fly Ash Based



- » Abrasive Cloth Rolls (Abrasive Emery Cloth)
- » Abrasive Grinding Wheel
- » Abrasive Paper & Flint Paper
- » Admixtures for Concrete
- » Artificial Marble Tiles Manufacturing Industry
- » Artificial Sand from Stones and Waste Metals
- » Asbestos Cement Corrugated Sheet
- » Asphaltic Roofing Sheet
- » Bauxite Calcination Plant by Rotary Kiln with Fine Grinding Ball Mill



- » Bitumen
- » Bonded Abrasives
- » Bricks from Fly Ash
- » Bricks from Fume Dust
- » Calcination of Non Plastic Clay
- » Calcined Bauxite
- » Calcined Coke (by using Horizontal Kiln)
- » Calcium Silicate Blocks and Pipes
- » Cement from Rice Husk
- » Cement Plant
- » Cement Roofing Tiles
- » Cement Water Proofing Compound
- » Ceramic Table Ware, Hotel Ware, Stone Ware/ Bone China

- » Clay and Sand Bricks Plant (Light Weight)
- » CLC Blocks (Cellular Light Weight Concrete Blocks) with Steam Curing Method
- » Clinker Grinding for Cement
- » Concentrated Manganese Ore
- » Concrete Block & Ready Mix Concrete
- » Crucibles from Fire Clay

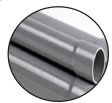


- » Dolomite Bricks
- » Electric PCC Poles
- » Fire Clay Bricks
- » Floor Polishing Stone

- » Fly Ash Bricks from Limestone
- » Fuel Bricks from Ground Nuts, Soyabean Hulls and Jute
- » Glass Reinforced Concrete
- » Granite (Marble) Polishing Batti (Bar)
- » Granite Block Cutting
- » Granite Tiles, Slab and Monuments
- » Graphite Mining and Processing
- » Gypsum Plaster Boards
- » HDPE PP Woven Fabric
- » Hydrated Lime
- » Insulator



- » Lime Bonded Fly Ash Brick
- » Magnesium Oxide Dead Burned Magnesia (DBM)
- » Meter Gauge Concrete Sleeper
- » Mini Cement Plant
- » Non Glazed Ceramic Tiles
- » Paper Bags for White Cement
- » Plaster of Paris Bandages
- » Portland Cement
- » PP Bags for Cement
- » Pre Tensioned Prestressed Railway Sleepers
- » Precast Concrete Compound Wall
- » Precast RCC Sleeper for Railway Track
- » Prestressed Concrete Poles for Electrical HT and LT
- » Prestressed Concrete Sleepers
- » PSC Electric Poles
- » PVC Solvent Cement
- » Ramming Mass and Fire Bricks from Magnesite
- » Ready-Mix Concrete (RMC Plant)
- » Resin Bonded Diamond Wheels
- » Rock Sand
- » Rock Wool Base Slag
- » Rubberised Cork Sheet
- » Salt Glazed Stoneware Pipes & Fittings
- » Sand Lime Bricks Manufacturing
- » Stone Crusher
- » Tempering & Toughening of Flat Glass
- » Vitrified Floor Tiles
- » Wall Putty
- » Water Proofing Liquid and Powder (Concrete and Mortar Admixture)



Disposable Nitrile Gloves (Powder Free)

India disposable gloves market generated \$303 million in 2017, and is projected to reach \$760 million by 2025, growing at a CAGR of 12.4% from 2018 to 2025. In terms of volume, the market is growing at a CAGR of 8.3% from 2018 to 2025. Indian glove market is growing at 15% while the demand for examination gloves has been rising by 20% per annum.

Nitrile gloves are a type of disposable gloves made from synthetic rubber, this means there is no risk of latex allergies. They are the most popular gloves type in our range and offer superior strength, dexterity and resistance to oils and aqueous chemicals in comparison to vinyl or latex. For these reasons, they are often used in the medical, laboratory and manufacturing industries.

PROJECT COST ESTIMATE Capacity

Disposable Nitrile Gloves	: 500,000 Pcs. / Day (Powder Free)
Plant & Machinery	: ₹ 1321 Lakhs
Cost of Project	: ₹ 2925 Lakhs
Rate of Return	: 30%
Break Even Point	: 45 %

Single Wall Steel Water Bottle

Water bottles are available in different shapes, colors, and sizes. The stainless steel bottle comes with a string to provide ease of carrying. Stainless steel fridge bottle is made from high-quality steel, food-grade and BPA-free stainless steel material that make the bottles safe for use on a regular basis. The taste and nutritive value of the drinks remains intact making the bottle very appropriate choice for storing beverages. Water bottles can be either disposable or reusable.

Metal water bottles are growing in popularity. Made primarily from stainless steel or aluminium (aluminium), they are durable; retain less odor and taste from previous contents than most plastic bottles. Double-walled metal bottles are insulated to keep cold liquids cold and hot liquids hot, without the external surface being too hot or too cold. Because double-walled bottles have more metal in them.

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. Entrepreneurs who invest in this project will be successful.

PROJECT COST ESTIMATE Capacity

Capacity	: 2,000 Nos/Day
Plant & Machinery	: ₹ 138 Lakhs
Cost of Project	: ₹ 439 Lakhs
Rate of Return	: 29%
Break Even Point	: 64%

Market Survey Cum Detailed Techno Economic Feasibility Report on all above Businesses are Available. Contact :

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Indian Kitchen Spices (Masala Powder) Spices Powder and Blended Spices, Readymade Mixes (Red Chilli Powder, Sambhar Masala, Biryani Masala, Chicken Fry Masala, Garam Masala)

The Indian spices market is worth INR 40,000 crore annually. Key spices produced in the country include pepper, cardamom, chilli, ginger, turmeric, coriander, cumin, celery, fennel, fenugreek, ajwain, dill seed, garlic, tamarind, clove, and nutmeg among others. The market is largely unorganized and the branded segment makes up about 15%.

The population in India

PROJECT COST ESTIMATE

Capacity:

Red Chilli Powder	: 100 Kgs. / Day
Sambhar Masala	: 100 Kgs. / Day
Biryani Masala	: 100 Kgs. / Day
Chicken Fry Masala	: 100 Kgs/ Day
Garam Masala	: 100 Kgs. / Day
Plant & Machinery	: ₹ 35 Lakhs
Cost of Project	: ₹ 195 Lakhs
Rate of Return	: 29%
Break Even Point	: 53%

is surging and the increasing consumer expenditure on food explains the swelling demand for food in India. Accordingly, the demand for spices is expected to grow in the future which will lead to a prominent growth in the revenues from the sales of spices in India. The revenues from India market are expected to expand to around USD 18 billion in FY'2020, growing with a CAGR of ~% from FY'2016 to FY'2020. The highest contribution to this growth is expected to come from the spice mixes and blended spices.

Indian Made Foreign Liquor

Indian made foreign liquor basically prepared from ethyl alcohol of different concentration with added flavour and coloured bottled hygienically. In India there are about 260 units engaged in the production of alcoholic brandy, whisky, beer & other beverages. The installed capacity of all those units is estimated of the order of 1400 to 1450 million liters per annum. India has been exporting alcohol in a substantial quantities. The estimated growth rate of demand is 20% per annum with increase in population and other industrial growth and consumption. There is good scope for new comers.

PROJECT COST ESTIMATE

Capacity

Plant Capacity	: 10,000 Btls/Day
Plant & Machinery	: ₹ 201.00 Lakhs
W. C. for 3 months	: ₹ 150.00 Lakhs
Total Cap. Investment	: ₹ 450.00 Lakhs
Rate of Return	: 50.93%
Break Even Point	: 44.86%

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 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

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%

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.

Tissue Paper from Recycled Paper

Tissue paper or simply tissue is a light weight paper or, light crêpe 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 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.

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%

PROJECT COST ESTIMATE

Capacity:

Herbal Health Drink	: 30,000 Bottles / Day
200 ml Size Bottle	
Herbal Health Drink	: 12,000 Bottles / Day
500 ml Size Bottle	
Plant & Machinery	: ₹ 27 Lakhs
Cost of Project	: ₹ 328 Lakhs
Rate of Return	: 28%
Break Even Point	: 52%

Market Survey Cum Detailed Techno Economic Feasibility Report on all above Businesses are Available. Contact :

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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%

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%

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.

penetration in the urban market, the confectionery industry could hope to

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.

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%

Coal Washery Unit

Coal Washing Unit is one of the most important units for up-gradation of Coal in sense of fed value by reducing of ash content in the Coal. It is basically associated with sieve of position to get the quality Coal. Qualities of coal depend upon its ash content. Coal washing is a process of separation mainly based on differences in specific gravity of coal and associated impurities like sand, ash etc. The course will deal theoretical and practical aspects of coal washing processes and equipment.

Coal demand in 2020 is unlikely to be anywhere near 1,500 MT for domestic coal. The Government of India plans to achieve a domestic coal production target of 1.5 billion

tonnes by 2020—an ambitious growth from 2015's production of 612.4 million tonnes. At present 8% of coal production is through underground mining technology. If CIL has to produce even 900 MT by 2020. Thus, due to demand it is best to invest in this project.

PROJECT COST ESTIMATE

Capacity

Coal Washing (Job Work)	: 3000 MT/Day
Plant & Machinery	: ₹ 668 Lakhs
Cost of Project	: ₹ 1735 Lakhs
Rate of Return	: 12%
Break Even Point	: 68%

FORM IV (See Rule 8)

Statement about ownership and other particular about newspaper "ENTREPRENEUR INDIA" to be published in the first issue every year after the last day of February.

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| Address | : 106-E, Kamla Nagar, Delhi – 110 007 |

I Ajay Kumar Gupta hereby declare that the particular given above are true to the best of my knowledge and belief.

Dated : 01.03.2022

Place : Delhi

Sd/-

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Publisher/Printer/Editor

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