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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

### Ferric Pyrophosphate Production Business

Ferric pyrophosphate is a fantastic chemical with numerous applications, particularly in the food and pharmaceutical industries. As a result, there's a lot of demand for this compound on the market, which means there's a lot of money to be made producing and selling it. If you want to create your own ferric pyrophosphate manufacturing company, here are some pointers to get you started.

Uses: Iron has a variety of applications (III) for patients who are iron deficient, pyrophosphate can be administered as an iron supplement.

- Additives to Food and Feed/ Food Additives
- Iron fortification

#### Benefits of Starting a Ferric Pyrophosphate Production Business:

The ferric pyrophosphate manufacturing industry is one of those that is well worth your time to investigate. It's a cutthroat industry with high entry hurdles, making it an appealing niche market for

seasoned entrepreneurs. Other metal phosphates, such as calcium, magnesium, and zinc phosphates, can also be made using the industrial technique.

#### Market Size:

In 2017, ferric pyrophosphate accounted for more than half of the total industry share. The demand for FePO<sub>4</sub> will be augmented by key applications such as iron supplements for illness prevention such as anaemia, fortification in infant cereals and other drink powders, and a high presence of iron bioavailability.

By 2024, the food and beverage market would have reached 60 kilo tonnes of consumption. The business will expand as people become more mindful of their nutritional intake on a daily basis and as demand for dietary supplements rises.

#### PROJECT COST ESTIMATE

Capacity	: 600 MT Per Annum
Plant & Machinery	: ₹ 48 Lakhs
Cost of Project	: ₹ 133 Lakhs
Rate of Return	: 29%
Break Even Point	: 74%

### Start Traction Motors (Permanent Magnet Synchronous Motors, Brushless DC Motors and Flux Motors) Business

A locomotive's most significant component is the traction motor. This motor is a D.C. Series Commutator Motor for the most part. Traction motors are electric motors that generate the power to rotate the train's wheels.

A Permanent Magnet Synchronous Motor (PMSM) is a synchronous motor with a stator core made of ferromagnetic material (such as iron) rather than electromagnets.

A Brushless Direct Current (BLDC) Motor is an electric motor with solid-state inductance control. Fans, blowers, pumps, electric machines, and robotics are all popular applications for BLDC motors.

A Flux Motor is a permanent magnet synchronous motor that replaces the mechanical commutator with an electronically commutated array of field-oriented coils (FOC).

Benefits of Starting a Traction Motor Manufacturing Business:

There are numerous advantages to launching your own traction motor manufacturing company. These benefits include being your own boss, having complete financial control, and the ability to choose your own hours. There is also an endless amount of possibilities when it comes to having a traction motor manufacturing company.

#### Market Size:

From USD 4.1 billion in

2021 to USD 17.3 billion in 2026, the worldwide automotive traction motor market is expected to develop at a 33.7 percent CAGR. The market is being driven by rising demand for electric vehicles, the manufacture of high-performance motors, and supportive government legislation.

The increased demand for traction motors is mostly due to technological improvements in electric vehicles. EV makers all over the world are paying attention to these emerging technology.

#### PROJECT COST ESTIMATE

##### CAPACITY:

<b>Permanent Magnet Synchronous Motors: 40 Nos. Per Day (5 KW, 48/72 Volt with 3000 RPM)</b>	
<b>Brushless DC Motors (3 KW, 48/72 Volt with 3000 RPM)</b>	: 40 Nos. Per Day
<b>Axial Flux Motors (10 KW, 48/72 Volt with 3000 RPM)</b>	: 20 Nos. Per Day
<b>Plant &amp; Machinery</b>	: ₹ 114 Lakhs
<b>Cost of Project</b>	: ₹ 510 Lakhs
<b>Rate of Return</b>	: 30%
<b>Break Even Point</b>	: 70%

## Lithium Ion Battery (LiFePO4) Production Business

A lithium-ion cell, sometimes known as a Li-ion battery, is a rechargeable battery in which lithium ions flow from the negative electrode to the positive electrode during discharge and then back to the negative electrode during charging. Due to safety concerns, alternative cathode materials based on elements other than cobalt or manganese have been developed. One of these materials is lithium iron phosphate.

### Features:

- Higher power density
- Lower discharge rate
- A straight discharge curve
- Lower heating costs
- Increased charging cycles
- Improved security

### Market Size in India:

Over the projection period of 2018-2023, the India lithium-ion battery market is expected to develop 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 GDP.

### Market Size Globally:

By 2028, the Lithium Iron Phosphate (LiFePO4) battery market is expected to reach USD 15.25 million.

The industry's growth is being fueled by increased demand for LiFePO4 batteries from the automobile sector. As the demand for battery electric cars has grown tremendously in recent years, the use of lithium iron phosphate batteries has increased significantly.

### PROJECT COST ESTIMATE

#### CAPACITY:

**Lithium Ion (LiFePO4) Battery Back of Power 4.8 KWH (No. of Cells 800) for Three Wheeler** : 26 Nos Per Day

**Lithium Ion (LiFePO4) Battery Back of Power 18 KWH (No. of Cells 3000) for Four Wheeler** : 24 Nos Per Day

**Plant & Machinery** : ₹ 289 Lakhs

**Cost of Project** : ₹ 970 Lakhs

**Rate of Return** : 29%

**Break Even Point** : 54%

## Manufacturing Business of Bamboo Charcoal

Bamboo charcoal production is a great business to start since it has high profit margins, requires few expensive inputs, and can be set up in a short amount of time. Furthermore, bamboo charcoal can be provided to customers in a variety of forms, such as briquettes and wood chunks, obviating the need for any middlemen or manufacturers in the supply chain. In a nutshell, this is the future of business! Let's take a look at how you may get started making bamboo charcoal right now.

### PROJECT COST ESTIMATE

**Capacity** : 4 MT Per Day

**Plant & Machinery** : ₹ 40 Lakhs

**Cost of Project** : ₹ 200 Lakhs

**Rate of Return** : 26%

**Break Even Point** : 56%

### Market Predictions:

From 2021 to 2026, the value of the bamboo charcoal market is expected to increase by USD 2.33 billion, with a CAGR of 19.35 percent. The bamboo charcoal market is

mostly driven by factors such as rising demand for natural charcoal.

The bamboo charcoal powder market is segmented into culinary, medicinal, cosmetics, and other applications. Chemicals, labs, and agriculture are among the other segments. Different grades of bamboo charcoal powder are utilised in industries depending on their needs. In terms of application, the bamboo charcoal powder market is dominated by the culinary, medicinal, and cosmetics industries.

## Kids Wear Apparel (T-Shirts & Bottom Wear) Business Plan

Children's clothing may not be the first thing that springs to mind when you think about manufacturing, but according to The NPD Group, it is one of the top three apparel categories that has risen in recent years, and it is one of the fastest growing categories within this industry.

### Benefits of Starting Kids Wear Apparel Business

In the Indian apparel or garment industry, making children's outfits is unquestionably a potential and profitable venture.

Infant ready-to-wear is a relatively new area of garment manufacturing in

### PROJECT COST ESTIMATE

#### CAPACITY:

**T-Shirts** : 84 Pcs. Per Day

**Bottom Wear** : 84 Pcs. Per Day

**Plant & Machinery** : ₹ 43 Lakhs

**Cost of Project** : ₹ 68 Lakhs

**Rate of Return** : 28%

**Break Even Point** : 74%

our country that has grown rapidly in recent years.

### Market Size in India:

By 2021, India's apparel market is predicted to increase at an annual

rate of nearly 11%, reaching a value of 85 billion US dollars. In India, the children's clothing segment accounted for over 20% of the total apparel market in 2018. By 2028, the market is expected to be worth roughly 1.7 trillion Indian rupees.

### Global Market Outlook:

During the forecast period, the children's clothing market is expected to grow at an annual rate of 8.76 percent (2022-2027). Children's clothing is typically more casual than adult attire, and is created specifically for play and rest. The most frequent textiles for children's apparel are cotton and hosiery.

## Monosodium Glutamate Production Business

Monosodium Glutamate (MSG) is a common additive in restaurants and homes all over the world. It enhances the flavour and taste of food, and as a result, it has grown in popularity over the last few decades. If you're serious about creating your own business and being your own boss, you should think considering launching a monosodium glutamate production company in addition to the other enterprises we offer on this site.

Some important uses of Monosodium Glutamate are listed below:

- This chemical is found in a variety of canned foods and spice combinations.

- MSG is frequently used to enhance the flavour of tobacco.

### PROJECT COST ESTIMATE

**Capacity** : 15 MT Per Day

**Plant & Machinery** : ₹ 7 Cr

**Cost of Project** : ₹ 21 Cr

**Rate of Return** : 26%

**Break Even Point** : 45%

the low expenses, MSG production has a significant profit margin. Third, there is lots of room for expansion for a successful entrepreneur who wants to start their own business rather than work for someone else.

### Market Outlook:

The Monosodium Glutamate market was worth \$5,638 million in 2020, and it is expected to increase at a CAGR of 5.81 percent between 2021 and 2026. Monosodium Glutamate's use has grown throughout time, and it may now be found in a variety of items in any market or grocery shop. The Monosodium Glutamate sector is expanding as a result of increased industrial and non-industrial applications, as well as rising consumer demand for convenience foods.

- It can be used to treat hepatic coma as well.

- MSG is a key ingredient in a number of instant ramen noodle brands.

### Benefits of starting Monosodium Glutamate Business:

Starting a Monosodium glutamate Production company has various advantages. First, because of its popularity in Asia, MSG is in higher demand. Second, because of

## Set Up Production Unit of ADHESIVE (Fevicol Type)

Any substance that is applied to one surface (the substrate) and creates an attraction between it and another surface is referred to as an adhesive. Fevicol and its derivatives are the most widely used home items in India, with the Fevikwik form being one of the world's most widely used adhesives. If you want to develop your own adhesive company, Fevicol can be used as a basis product to create your own unique variations. Fevicol and other adhesives are extremely versatile and can be utilised in a wide range of industries.

### PROJECT COST ESTIMATE

Capacity	: 300 MT Per Annum
Plant & Machinery	: ₹ 40 Lakhs
Cost of Project	: ₹ 70 Lakhs
Rate of Return	: 28%
Break Even Point	: 70%

#### Uses:

- Carpenters rely heavily on various adhesives to do their work.
- Lightweight materials such as cardboard, paper, cloth, and children's crafts require adhesives such as white craft glue.

• Glue sticks are fantastic for stationery use, especially for children.

• Adhesive is commonly used in the textile sector.

• Acrylate adhesives are commonly used in the ceramic and leather industries.

• Adhesive is used in the paint industry to improve paint and coating adhesion.

#### Market Size in India:

India's adhesives industry has grown to become one of the world's major users of adhesives, thanks to the rise of numerous end-user

sectors. By the end of 2020, India's adhesives industry is estimated to be worth roughly USD 5.7 billion. The India Adhesives market is predicted to increase at a significant rate over the forecast period, according to Researcher.

#### Market Outlook:

The rise of the industrial adhesives market has been aided by growth in the packaging, building & woodworking, and transportation end-use industries, as well as technical improvements. Between 2015 and 2021, the industrial adhesives market increased at a CAGR of 4.8 percent.

## Dental Care Products GI Cement & Composite Lite Cure Business Plan

Consider starting a glass ionomer cement and composite lite cure manufacturing Business if you're looking to establish your own business. This industry is ideal for people who want to see rapid results as well as the cash rewards that come with it. Glass ionomer cement and composite lite cure manufacturing enterprises exist, with one offering non-cohesive glass ionomer cement and the other selling composite lite cure, which can adhere to enamel and dentin and is thus stronger than glass ionomer cement. Both of these compounds aid in the prevention of future degradation.

#### Market Outlook:

The Global Glass-ionomer Cement market was worth USD 118.4 million in 2016 and is expected to reach USD 154.1 million in 2027, with a CAGR of 4.5 percent from 2021 to 2027. Growing awareness of dental care and increased demand for dentistry services in developing countries such as China and India, owing to economic development, favourable government initiatives, and improvements in healthcare infrastructure, as well as rising dispos-

able income levels, are the main drivers of this growth.

As the breadth and applications of Dental Curing Lights expand around the globe, the market is likely to develop at a considerable CAGR in the coming years. A dental curing lamp is a device used in dentistry to polymerize light cure resin-based composites. It's only utilised on dental materials that can be cured with light. The most common dental curing lights used by specialists and in dental practises are LEDs and halogen.

#### India Dental Devices Market:

During the forecast period, the India Dental Devices market is expected to grow at a CAGR of 6.5 percent (2022-2027). As a result of the rise in oral problems, particularly among children and the elderly, the number of dental implants and oral operations performed has increased.

### PROJECT COST ESTIMATE

<b>CAPACITY:</b>	
GI Cement (Part A Powder 5 gms each & Part B Liquid 5 ml each)	: 20000 Pcs. Per Day
Composite Lite Cure 5 ml each Pack	: 15000 Pcs. Per Day
Plant & Machinery	: ₹ 39 Lakhs
Cost of Project	: ₹ 340 Lakhs
Rate of Return	: 36%
Break Even Point	: 74%

## Sorbic Acid/Potassium Sorbate Production Business

Potassium and Sorbic Acid Sorbate and its derivatives are two chemical compounds with several applications in the cosmetic and medicinal sectors. These compounds operate as preservatives in a variety of items, including shampoo, cosmetics, and lotions, by inhibiting the growth of bacteria, mould, and yeast.

Sorbic acid, also known as 2, 4-hexadienoic acid (CHEBI:17495), is a saturated monocarboxylic fatty acid having two ketone groups and a conjugated system of double bonds. Dairy products, plants, and fermentation processes all contain it. It is antibacterial in nature. The esterification of the corresponding alcohol with succinic anhydride produces sorbic acid.

#### It's Utilization:

Sorbic acid is mostly used as a food preservative. The FDA has approved it as a food additive for preventing the growth of bacteria, mould, and yeast. Adding sorbic acid to your product has a number of advantages: It enhances flavour, works as an antioxidant, extends shelf life, does not affect colour or odour, does not react with other components, is heat stable and does not produce gas at high temperatures, and is biodegradable.

Potassium Sorbate: Potassium sorbate is a food ingredient that inhib-

its the formation of mould. In addition, by suppressing yeast development, it extends the shelf life of food. It's also used as a stabiliser in ice cream and other frozen desserts to keep sugar from recrystallizing and fat from destabilising.

#### Market Outlook:

During the forecast period (2020–2030), the Global Sorbic Acid Market will grow at a CAGR of 4.7 percent, from \$347,661.0 thousand in 2019. The presence of well-established food and beverage and pharmaceutical businesses in Western economies, as well as rising per capita food and beverage consumption in emerging economies such as India, China, and Brazil, are largely to blame.

### PROJECT COST ESTIMATE

<b>CAPACITY:</b>	
Sorbic Acid Powder	: 200 MT Per Annum
Potassium Sorbate Powder	: 300 MT Per Annum
Plant & Machinery	: ₹ 4 Cr
Cost of Project	: ₹ 20 Cr
Rate of Return	: 25%
Break Even Point	: 46%

The Market for Potassium Sorbate was valued at \$154.7 million in 2019 and is expected to increase at a CAGR of 4.89 percent from 2020 to 2025. Potassium Sorbate Market growth is attributable to its widespread use as a preservative in food products, as well as the fact that it is readily available and inexpensive.

## Start Production Business of Tartaric Acid

You may be aware that tartaric acid is frequently utilised in the food sector due to its antimicrobial and antioxidant characteristics, but did you know that it is also commonly used in the cosmetics industry? It's time to build your own tartaric acid production company if you want to profit from this market niche.

### Tartaric Acid (TA):

It is an aromatic white crystalline powder that is mostly used in baking as a leavening ingredient and gets its name from tartar, a byproduct of wine fermentation. Soft drinks and medications can potentially include it.

### Uses:

- To make oral drugs taste better.
- To chelate metal ions like calcium and magnesium.
- Used in conjunction with baking soda as a leavening agent

### PROJECT COST ESTIMATE

Capacity	: 10 MT Per Day
Plant & Machinery	: ₹ 4 Cr
Cost of Project	: ₹ 13 Cr
Rate of Return	: 45%
Break Even Point	: 53%

in recipes.

- It acts as an antioxidant.
- As a key component of wine's acidity.
- Used to impart a sour flavour to meals.
- To make you vomit.
- For the creation of silver mirrors.
- Tartaric acid is used in textile dyeing in the ester form.
- When leather is tanned.
- It's also found in candy.
- Tartaric acid is used as a

stabiliser in food in the form of a cream.

### Market Outlook:

In 2020, the global tartaric acid market will be worth \$2.55 billion. In the years ahead, the market is expected to develop at a CAGR of roughly 6.4 percent between 2021 and 2030.

Tartaric acid is in high demand in the confectionery business, where it is used to make industrial biscuits and snacks, as well as as a leavening agent in baking and desserts.

The rapidly expanding food and beverage sector around the world is one of the main reasons for tartaric acid's current high demand. Tartaric acid is a multi-purpose chemical that can be used as an emulsifier, dough conditioner, acidifier, and bulking agent.

## Business Industry of Grain Processing (Grading, Cleaning & Packaging of Rice & Pulses)

Grain processing, as exemplified by four milling, is essentially a physical process whereby the kernel is cleaned, adjusted to an appropriate moisture content and then mechanically reduced to the desired particle size to produce a flour. Where appropriate, four production also involves fractionation not only to separate bran, germ and endosperm from each other but also assure the correct particle size of the milled endosperm. The process involves neither chemical nor thermal treatments and thus does not bring about decontamination of the grain itself. The milling process can bring about changes in the distribution of contaminants when comparing amounts within the grain and the resultant mill fractions.

### Major food grains basically used:

- Directly as food.
- For the production of starch, and starch to glucose.
- For the production of vegetable oil.
- For the production of protein rich food.
- For the production of cattle feed.
- In directly produced corn steep liquor which is used in the fermentation method as vitamin source or mineral source.

Cereals and grains processing market is expected to grow at a rate of 10.40% in the period 2020 to 2027. The rising consumption of food products is the major factor driving the growth of cereals and grains processing market in the period of 2020- 2027. Agriculture is the primary source of livelihood for about 58% of India's population. Gross Value Added by agriculture, forestry, and fishing was estimated at Rs. 19.48 lakh crore (US\$ 276.37 billion) in FY20. Share of agriculture and allied sectors in gross value added (GVA) of India at current prices stood at 17.8 % in FY20. Consumer spending in India will return to growth in 2021 post the pandemic-led contraction, expanding by as much as 6.6%.

## Oleoresin of Spices Black Pepper, Paprika and Cardamom

Oleoresin is a homogeneous mixture comprising of resin and oils that are volatile in nature. Spice oleoresins represent the complete flavour profile of the spice. It contains the volatile as well as non-volatile constituents of spices. Spice oleoresins guarantee superior quality of flavour and aroma. They have several applications like in the preparation of beverages, soup powders, confectionary, curries, noodles, sauces, canned meat etc.

The Indian spice oleoresin market is about Rs.600 crores. India accounts for 70% of the world oleoresin production with competition from China, US, Lanka, South Africa and Latin America. Entrepreneurs who invest in this project will be successful.

### PROJECT COST ESTIMATE

#### CAPACITY:

Black Pepper Oleoresin	: 14 Kgs/Day
Black Pepper Spent	: 545 Kgs/Day
Cardamom Oleoresin	: 10 Kgs/Day
Cardamom Spent	: 120 Kgs/Day
Paprika Oleoresin	: 1.2 Kgs/Day
Paprika Spent	: 15 Nos./Day
Plant & Machinery	: ₹ 234 Lakhs
Cost of Project	: ₹ 424 Lakhs
Rate of Return	: 27%
Break Even Point	: 53%

## Ground Calcium Carbonate

with 90% Brightness and Whiteness and > 90% CaCO<sub>3</sub>

Ground calcium carbonate, commonly referred to as GCC in industrial applications, is widely used as a filler material. Ground calcium carbonate may be referred to as calcium or limestone in agricultural applications. GCC products are used in the whole variety of applications for lime stones – building products, paints, plastics, agriculture, glass, among others.

### PROJECT COST ESTIMATE

#### CAPACITY

Ground Calcium Carbonate	: 200 MT/Day
5-10 Micron size	
Plant & Machinery	: ₹ 12 Crore
Cost of Project	: ₹ 24 Crore
Rate of Return	: 28%
Break Even Point	: 60%

The demand in the global ground calcium carbonate market at a considerable CAGR of 5.0% during the forecast period from 2017 to 2025. As per the research, the global ground calcium carbonate market is foreseen to reach around worth of US\$22,311.06 mn before 2025, considerably more the end of 2025. As a whole there is a good scope for new entrepreneur to invest in this business.

### PROJECT COST ESTIMATE

#### CAPACITY:

Moong Dal	: 1 MT Per Day
Masur Dal	: 1 MT Per Day
Toor Dal	: 1.5 MT Per Day
Chana Dal	: 1 MT Per Day
Kabuli Chana	: 1 MT Per Day
Desi Chana	: 1.5 MT Per Day
Katmi Rice	: 1.5 MT Per Day
Bengal Joha Rice	: 1 MT Per Day
Assam Joha Rice	: 1.5 MT Per Day
Sonam Rice	: 1.5 MT Per Day
Groundnut	: 2 MT Per Day
Plant & Machinery	: ₹ 63 Lakhs
Cost of Project	: ₹ 1.65 Cr
Rate of Return	: 31%
Break Even Point	: 58%

## Automated Vehicle Scrapping and Recycling Unit

The disassembly of vehicles for spare parts is known as vehicle recycling. Vehicles have value as a source of replacement components as they reach the end of their useful life, which has given rise to the car dismantling industry. Wrecking yard, auto dismantling yard, automotive spare parts supplier, and, more recently, auto or vehicle recycling are all terms used to describe the industry's business outlets. Vehicle recycling has long been a part of the process, but in recent years, manufacturers have gotten more active. A car crusher is frequently used to decrease the size of a discarded automobile so that it can be transported to a steel mill.

The "Voluntary Car-Fleet Modernization Programme," or India's vehicle scrapping programme, aims to usher in a new era of what it means to own and utilise an automobile in India. Road Transport and Highways Minister Nitin Gadkari launched it in Parliament in March. In the aim of greater pollution control and safety, which new vehicles provide, the policy mandates that all autos above a particular age be taken off the road. If a commercial vehicle over 15 years old or a personal vehicle over 20 years old fails an automated fitness test, they are slated for scrapping, regardless of whether they run on diesel or gasoline.

### PROJECT COST ESTIMATE

<b>Capacity</b>	: 1000 Vehicles Per Month
<b>Plant &amp; Machinery</b>	: ₹ 497 Lakhs
<b>Cost of Project</b>	: ₹ 2090 Lakhs
<b>Rate of Return</b>	: 29%
<b>Break Even Point</b>	: 40%

As a result, car recycling is critical. It's also critical to handle them appropriately to guarantee that dangerous waste isn't released into the environment. Professionals who know how to dispose of hazardous liquids including fuel, coolants, and brake fluids must dispose of such cars.

**Environmental Advantages:** Steel is one of the most important materials in the construction of an automobile; it is used to construct the majority of the components, including the framework. Because iron ores are needed to create steel, recycling cars aids in the preservation of iron ores. All waste generated as a by-product of steel processing is also avoided, ensuring that air pollution does not rise.

**Wildlife Protection:** It's also worth noting that appropriate vehicle recycling can aid in the preservation of local flora and fauna. Steel mining is unfriendly to the environment and causes soil degradation and erosion, which means animals are unable to maintain their usual routines and may grow ill as a result. Sediment runoff into bodies of water is also a result of land erosion, which has an impact on water quality and wildlife proliferation.

## Investment Opportunities in Waste Lubricating Oil Recycling Plant

Waste oil is made up mostly of hydrocarbons and comes from both industrial and non-industrial sources. Due to physical contamination and chemical reactions that occur during its use, it may potentially contain additives and contaminants. Used oil has been used before, and as a result, it is now contaminated with chemical and physical contaminants. Old transmission oil, motor oil, brake fluid, hydraulic oil, and gearbox oil are all examples of used oil. Oil that has been used is a recyclable commodity that can be held for recycling, reuse, or disposal. Oil that has been used is not considered a waste product. By interposing a thin coating of oil between metallic surfaces, lubricating lubricants are widely employed in industries to minimise friction and wear. Impurities such as water, salt, dirt, metal scrapings, broken down additive components, varnish, and other elements might mix with the oil or be created in it as a result of thermal breakdown or oxidation during regular use.

It is preferred to recycle and reuse spent oil rather than dispose of it, and it can have significant environmental benefits. Recycled spent oil can be refined into fresh oil, processed into fuel oils, and used as petroleum industry raw materials. The term "waste oil" refers to refined oil that has been delivered to be used for a number of applications. Waste oil contains a variety of impurities, grime, and chemicals. Any synthetic or petroleum-based

### PROJECT COST ESTIMATE

<b>CAPACITY:</b>	
<i>Used Lubricating Oil</i>	: 20,000 Ltrs Per Day
<i>Spent Clay as by product</i>	: 2,105 Ltrs Per Day
<b>Plant &amp; Machinery</b>	: ₹ 127 Lakhs
<b>Cost of Project</b>	: ₹ 753 Lakhs
<b>Rate of Return</b>	: 27%
<b>Break Even Point</b>	: 50%

oil that has become polluted and unfit for its original purpose is referred to as waste oil. Crankcase and lubricant wastes are the main sources of this substance. It's also used as a road oil for dust control, and it's sometimes blended with pure oil for use in boilers to generate electricity.

In many regions, the method of refining waste oil to make fuel or lubricating oil is currently used. Because it is burned or haphazardly dumped into the earth, waste oil appears to be a harm to the environment. Refining waste oil necessitates the development of efficient recycling and disposal strategies by government bodies. This helps to protect the environment by preventing unlawful waste oil dumping. Emerging waste oil treatment and disposal solutions provide for more efficient servicing while also reducing environmental risk.

## Setup a Manufacturing Plant of Disposable Plate and Cups from Waste Rice Husk Powder

Disposable plate and cups has emerged as a better alternative to plastics across the globe and Indians have been early adopters of biodegradable products. All kinds of plant biomass material such as bagasse, rice husk, coconut coir etc. are being utilized for producing eco-friendly cutlery, tableware and packaging products that could see a surge in usage in the coming decade.

Rice husk plates is highly friendly, high performing, and cost-effective products manufacturing using top-quality materials and industry-leading technology. Great to hold and use and no unpleasant feeling of wooden single use tableware in your mouth. Ditch the single use plastic and bio plastic and reuse the natural sustainable alternative. Give a gift that has a positive effect, take to work, use at the deli takeout, switch from plastic at the refectory and avoid single use surcharges too.

Disposable plates and cups has gathered groundswell of interest among consumer worldwide due to compelling environmental reasons. To that end, augmenting the popularity of biodegradable utensils are their better sustainability than plastics and the

salient environmental-friendliness of biodegradable materials. In particular, biodegradable tableware made of plant-based materials and biodegradable bio-plastics have attracted widespread attention world over. Most popularly, eco-friendly tableware are made using corn, areca leaves, and bagasse, and rice husk. Over the years, the remains of fast growing trees have been utilized. The demand for disposable plate and cup with bamboo in regions where they are abundantly available has gathered stream, such as in India.

### PROJECT COST ESTIMATE

<b>CAPACITY:</b>	
<i>Disposable Plates from Waste Rice Husk Powder</i>	: 10,000 Pcs Per Day
<i>Disposable Cups from Waste Rice Husk Powder</i>	: 10,000 Pcs Per Day
<b>Plant &amp; Machinery</b>	: ₹ 38 Lakhs
<b>Cost of Project</b>	: ₹ 166 Lakhs
<b>Rate of Return</b>	: 28%
<b>Break Even Point</b>	: 60%

# Opportunities in Drinking Water

## with Packaging in Aluminium Beverage Cans (Mineral, Carbonated, Alkaline)

It goes without saying that water, a mixture of hydrogen and oxygen, is a priceless natural gift that is critical for the existence of humans and animals alike. Water that is utilised for drinking reasons should be free of contaminants. Untreated water from sources such as wells, boreholes, and springs is often unsanitary and unsafe to consume. Purifying water and supplying it in sanitary conditions for human use is thus desirable and necessary.

Water that is safe to drink or use for food preparation is referred to as drinking water. The amount of drinking water needed to stay healthy varies, depending on physical activity, age, health-related disorders, and environmental factors. Even while only a small fraction of tap water is consumed or used in food preparation, it usually meets drinking water quality standards in developed countries.

Other common use include laundry, toilets, and irrigation. Access to safe drinking water is considered a basic human right by the World Health Organization.

Mineral water is water from a mineral spring that contains salts and sulphur compounds, among other minerals. Mineral water is usually either still or sparkling (carbonated/effervescent) depending on whether or not additional gases are present. Mineral waters were traditionally used or drank near their spring sources, a practise known as "taking the waters" or "taking the remedy," in spas, baths, or wells.

Carbonated water (also known as sparkling water, fizzy water, club

soda, and water with gas) is water that contains dissolved carbon dioxide gas, which is either naturally present or purposefully injected under pressure. Small bubbles form

as a result of the carbonation, giving the water an effervescent aspect. Sparkling natural mineral water, club soda, and commercially made sparkling water are all popular options. Minerals such as potassium bicarbonate, sodium bicarbonate, sodium citrate, and potassium sulphate are added or dissolved in club soda and sparkling mineral water, as well as several other sparkling fluids.

The global bottled water market

was valued at USD 217.66 billion in 2020, with a compound annual growth rate (CAGR) of 11.1 percent predicted from 2021 to 2028. The important elements driving the industry over the next few years will be portability, ease of use and installation, and low maintenance costs. Additionally, increased consumer awareness of the health benefits of drinking bottled water is expected to propel market expansion throughout the forecast period. Plain and flavoured still and sparkling water have become immensely popular beverages on a global scale in recent years. This is a new megatrend that is expected to grow in popularity in the next years. Consumers are choosing for packaged water and limiting their intake of sugary drinks as their health awareness grows. Still bottled water consumption has increased in food outlets and restaurants, which is driving market expansion.

### PROJECT COST ESTIMATE

#### CAPACITY:

<b>Mineral Water</b>	: 2,000 Cans Per Day
<b>Carbonated Water</b>	: 2,000 Cans Per Day
<b>Alkaline Water</b>	: 2,000 Cans Per Day
<b>Plant &amp; Machinery</b>	: ₹ 186 Lakhs
<b>Cost of Project</b>	: ₹ 417 Lakhs
<b>Rate of Return</b>	: 22%
<b>Break Even Point</b>	: 61%

## Ready to Eat Food (RTE)

Ready to Eat Foods (RTE) are convenience foods, enclosed in aluminium container or pouches that only need to be cut and heated before being served. Instant vegetables in retort pouches fall under this category and find application not only as home meal replacement in working class households but also in fast-food restaurants and multi cuisine food joints. These are handy meals for armed forces and paramilitary forces deployed in remote places. RTE food includes wide range of products viz.

vegetarian/non-vegetarian, basic food/delectable desserts, south and north Indian items available from a specialty or multi cuisine restaurant & food joint only.

Ready To Eat, Shelf Stable, Retort Sterilized Foods are completely cooked foods packed in airtight containers, which could be preserved at room temperature for a long period of time without the necessity of freezing, cooling and drying. The thermally-processed retort pouch foods are waterproof, weatherproof and bug proof. The Shelf Life of Ready To Eat Foods is from 1 year to 5 years, depending on the

type of packing materials and processing procedures.

India's Food Processing industry is one of the largest industries in the country—it is ranked fifth in terms of production, consumption, export and expected growth. The industry employs 1.6 million workers directly. Now the time is to provide better food processing & marketing infrastructure for Indian industries to serve good quality & safest processed food like READY TO EAT (RTE) food, keeping in mind the changing tastes and lifestyle of the Indian demography.

The Indian food processing market was worth INR 24,665 Billion in 2018. Looking forward, the market is projected to reach INR 50,571 Billion by 2024, exhibiting a CAGR of 12.4% during 2019-2024. Rising household incomes, urbanization and the growth of organized retail are currently some of the major drivers of this market. Food processing is a large sector that covers activities such as agriculture, horticulture, plantation, animal husbandry and fisheries.

### PROJECT COST ESTIMATE

#### CAPACITY:

<b>Vegetable Pulao</b>	: 3000 Kgs. Per Day
<b>Dal Makhani</b>	: 2000: Kgs. Per Day
<b>Palak</b>	: 600: Kgs. Per Day
<b>Rajmah</b>	: 700 Kgs. Per Day
<b>Potato Peas</b>	: 600 Kgs. Per Day
<b>Mutter Mushroom</b>	: 250 Kgs. Per Day
<b>Plant &amp; Machinery</b>	: ₹ 580 Lakhs
<b>Cost of Project</b>	: ₹ 954 Lakhs
<b>Rate of Return</b>	: 30%
<b>Break Even Point</b>	: 58%

## Citric Acid Production Business Plan

Citrus fruits have a sour taste due to citric acid, which is a naturally occurring organic chemical. It can also be utilised in a variety of industrial applications, making it a vital component of a variety of businesses ranging from food and beverage production to personal care goods and chemical production.

#### Uses:

Citrus fruits, such as lemons, limes, and oranges, can be used to extract it. It's used in a variety of foods to keep them fresh and enhance flavour. It's also found in cosmetics and cleaning products. It's used in soft drinks, jams, jellies, candies, and a variety of other foods as an acidity regulator or firming agent.

#### Why You Should Start a Business in This Industry?

Citric acid production and distribution is a rapidly expanding part of the chemical industry. Citric acid's sale price has continued to climb, and enterprises looking to extend their product lines have an increasing variety of options.

You can easily generate and distribute citric acid, which is

### PROJECT COST ESTIMATE

<b>Capacity</b>	: 100 MT Per Day
<b>Plant &amp; Machinery</b>	: ₹ 84 Cr
<b>Cost of Project</b>	: ₹ 135 Cr
<b>Rate of Return</b>	: 26%
<b>Break Even Point</b>	: 38%

present naturally in citrus fruits such as lemons, limes, oranges, grapefruits, and more, which is one of the main reasons why you should consider beginning a business in this area.

#### India Citric Acid Market Outlook:

In 2020, the Indian citric acid market is expected to reach 80,800 metric tonnes. During the years 2021-2026, the market is estimated to develop at a CAGR of 5.7 percent.

#### Global Market Outlook:

Citric acid sales were valued at US\$ 2,756.5 million in 2015, and are expected to reach US\$ 4,494.8 million by 2026. During the projection period (2016–2026), sales revenue is expected to grow at a CAGR of 4.6 percent.

During the forecast period, the market is expected to grow at a CAGR of 3.7 percent in terms of volume.

# Manufacturing Business of Blood Collection Tubes (Vacutainer)

A vacuum blood collection tube is a sterile glass or plastic test tube with a stopper that creates a vacuum inside the tube so that a preset volume of liquid can be depicted. By avoiding needles from coming into contact with humans and so being contaminated, the vacuum blood collection tube avoids needle stick injuries. A double-pointed needle is fitted to a plastic tubular adapter in the vacuum blood collecting tube. Double-pointed needles come in a variety of gauge sizes. The needle's length varies from 1 to 1 1/2 inches. Additional elements may be present in vacuum blood collection tubes, which are used to preserve blood for treatment in a medical laboratory. These additives come in the form of ultrasonic nozzle-applied films.

Clinics and laboratories commonly utilise a vacuum blood collection tube to store blood for

PROJECT COST ESTIMATE	
<b>CAPACITY:</b>	
<i>Blood Collection Tubes (Vacutainer): 100,000 Nos Per Day 13x100 with EDTA</i>	
<i>Blood Collection Tubes (Vacutainer) : 100,000 Nos Per Day 13x75 Plain</i>	
<b>Plant &amp; Machinery</b>	: ₹ 345 Lakhs
<b>Cost of Project</b>	: ₹ 983 Lakhs
<b>Rate of Return</b>	: 30%
<b>Break Even Point</b>	: 51%

future testing. An alternative for vacuum blood collection tubes has been developed that can store blood for testing purposes for a prolonged period of time. Vacuum blood collection tubes come in a variety of sizes and specimen kinds. When the needle punctures the cap of a blood collection tube,

the vacuum is dissipated over time, and blood is not pulled into the tube.

Blood Collection Tubes Market is expected to reach \$2.81 billion by 2025, with a CAGR of 7.1 percent from 2020 to 2025. Many disorders require the use of blood in their diagnosis and treatment. The collection, storage, and management of blood after it has been obtained from a donor are all part of the blood processing process. The blood collection tubes, also known as vacutainers, are disinfected and have a safety-engineered stopper with multiple labelling options with the volume on it and the colour of the caps shows the additives in the tube. The need for blood collection tubes is being driven by the increased use of blood samples in diagnostics and the requirement for blood components in the treatment of numerous disorders.

## Growing Business of Animal Feed (Cattle, Poultry Broiler, Pig & Fish Feed)

Animal feed is the food that is fed to domestic animals, particularly livestock, in the course of their care. Fodder and forage are the two most common types. When the word feed is used alone, it usually refers to fodder. Animal feed is a crucial component of animal agriculture, and it is typically the most expensive part of the process. Farms generally strive to cut costs by growing their own food, grazing animals, or supplementing expensive feeds with cheaper alternatives, such as food waste from beer manufacturing.

Animal health is highly reliant on feed that provides a well-balanced diet. Some current agricultural techniques, such as grain-feeding cows or keeping them in feedlots, are bad for the environment and the animals. Increased maize or other grain in cow diet, for example, causes their microbiomes to become more acidic, compromising their immune systems and making cows a more likely vector for E.coli. Other feeding habits, on the other hand, can help animals. Feeding cows certain types of seaweed, for example, reduces their methane production, lowering greenhouse gas emissions from meat production.

From US\$345.434 billion in 2020 to US\$460.322 billion in 2026, the animal feed industry is expected to increase at a CAGR of 4.90 percent. Animal feeds are the goods that are responsible for boosting the health of animals. Depending on the animal, different doses of the feed are provided.

During the projected period, rapid urbanization and rising consumption of meat and other end products such as milk and eggs in various areas will drive the animal feed market growth potential.

By delivering enriched nutrients with the feedstuff, the feed aids in the enhancement of the animal's capacities, accelerating growth and weight gain, and improving immunity.

PROJECT COST ESTIMATE	
<b>CAPACITY:</b>	
<i>Cattle Feed</i>	: 33.6 MT Per Day
<i>Poultry Broiler Feed</i>	: 16.8 MT Per Day
<i>Fish Feed</i>	: 2.8 MT Per Day
<i>Pig Feed</i>	: 2.8 MT Per Day
<b>Plant &amp; Machinery</b>	: ₹ 160 Lakhs
<b>Cost of Project</b>	: ₹ 1488 Lakhs
<b>Rate of Return</b>	: 24%
<b>Break Even Point</b>	: 48%

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

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

PROJECT COST ESTIMATE	
<b>CAPACITY</b>	
<b>WPC Profile for Building Materials</b>	: 9600 Kgs/Day
<b>Plant &amp; Machinery</b>	: ₹ 155 Lakhs
<b>Cost of Project</b>	: ₹ 737 Lakhs
<b>Rate of Return</b>	: 28%
<b>Break Even Point</b>	: 64%

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

## Cashew Cultivation

Commercial cultivation of cashew is taken up in eight states of our country mainly in west and eastern coast viz., Andhra Pradesh, Goa, Karnataka, Kerala, Maharashtra, Orissa, Tamil Nadu and West Bengal. India is the third largest producer and exporter of cashew in the world next only to Vietnam and Nigeria. It is the second largest consumer of cashew and also the biggest processor with highest acreage under the crop. The current cashew production of the country accounts for 23.0% of the global production.

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

PROJECT COST ESTIMATE	
<b>CAPACITY:</b>	
<i>Cashew Nuts</i>	: 77,400 Kgs/Annum
<i>Cashew Apple By product</i>	: 154,800 Kgs/Annum
<i>Groundnut (Intercrop)</i>	: 16,920 Kgs/Annum
<b>Plant &amp; Machinery</b>	: ₹ 35 Lakhs
<b>Cost of Project</b>	: ₹ 185 Lakhs

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

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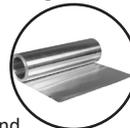
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- » Truck Body Building
- » Water Proofing Compound (Liquid and Powder)



## Automobile Industry and Auto Components, Automotive components, Spare parts, Auto Parts, Car Parts, Replacement Parts, Tractor Parts, Motorcycle Parts, Auto Body Parts, Two Wheeler, Three Wheeler and Four Wheeler Parts, Accessories & Spares

- » Aerosol Cans
- » Aluminum Gravity Casting
- » Auto Brake Lining
- » Auto Bulb, Lamp
- » Auto Control Cables
- » Auto Head Light
- » Auto Lamps (Auto Tail Lights)
- » Auto Leaf Springs
- » Auto Piston
- » Auto Tubes
- » Automatic Ignition Coil
- » Automobile Brake Shoes
- » Automobile Filter
- » Automobile Gaskets
- » Automobile Gear
- » Automobile Hoses
- » Automobile Hoses (AC Hose, Fuel Hose, Hydraulic Hose, Petrol Pump Hose) and Production of Tyres
- » Automobile Paints for Car
- » Automobile Parts



- » Automobile Radial Tyres (for Cars & Trucks)
- » Automobile Radiators
- » Automobile Silencer for Two and Three Wheelers
- » Automobile Tyres for Trucks, Buses and Lorries
- » Automobile Workshop
- » Automotive Carburetors
- » Automotive Tyre (Tire) Plant for Car & Trucks
- » Automotive Tyre Plant
- » Ball Bearing
- » Battery for Auto Vehicles
- » Bearing Ring by Forging Route
- » Bicycle Tubes and Motorcycle Tubes
- » Bimetal Bushes with Powder Based Metallurgy
- » Bimetallic and Sintered Bushes
- » Brake Fluids
- » Brake Lining
- » Brake Shoe
- » Clutch Lining for Four Wheelers
- » Clutch Plate for Four Wheelers
- » CNG Cylinders



- » Commercial Vehicles Dealership-Sale of Commercial Vehicles-Spares-Servicing
- » Control Panel
- » Coolant (Automotive) & Grease (CTB or AXLE)
- » Coolant, Brake Oil, Packing of Lubricant Oil & Greases
- » Crane Hooks and Other Forged Products (Suspension Part, Suspension Shaft, Safety Latch)
- » Cycle and Van Tyre and Tubes
- » Electrolytic Manganese Dioxide
- » Electronic Cut Out for Automobile
- » Engine Coolant
- » E-Rickshaw
- » E-Rickshaw (Electric Tuk-Tuks)
- » E-Rickshaw Assembling
- » Filter (For All Vehicles)
- » Forging Unit for Automobile Spare Parts
- » Friction Dust from Cashew Shell Liquid
- » Grey Oxide (used in Automotive & Tubular Battery)
- » Helmet Manufacturing



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

- » Hybrid Electric Scooter Assembling
- » Hydraulic Hose with Crimping Facility of Hose End Fittings
- » Hydraulic Hoses and Clamping
- » Hydraulic Hoses for Heavy Earth Movers
- » Latex (Rubber) foam Product
- » Lead Acid Battery
- » Lead Acid Battery (Maintenance Free)
- » Lead Battery Recycling
- » Li-Ion Battery
- » Lithium Ion Battery (Battery Assembly)
- » Lithium-Ion Battery (LIB)
- » Lube Oil Blending Plant (Engine Oil, Gear Oil & Grease)
- » Lubricants Blending Plant (Lubricants, Grease, Brake Fluid, Coolant)



- » Maintenance Free Rechargeable Battery
- » Manufacturing of Truck Mud Flaps
- » Multi Valves used in Auto LPG Tanks
- » Peelable Coating for Construction and Automobile Industry
- » Piston for Internal Combustion Engines
- » Piston Rings for IC Engines (Cast Iron)
- » Plastic Battery Containers
- » Plastic Injection Moulding Plant for Auto Parts
- » Radial Tyres for Cars & Trucks
- » Radiator Engine Coolant
- » Reclaimed Rubber Sheet from Waste Tyre
- » Rivets (Clutch Facing Brake Linings)
- » Roller Bearing (Rolling-Element Bearing)
- » Rubber Auto Parts
- » Rubber Compounding



- » Rubber Floor Mats
- » Rubber Gaskets
- » Rubberised Cork Sheet
- » Sheet Metal Components for Automobiles
- » Sintered Bush
- » Toughened Glass
- » Toughened Glass (Tempered Glass)
- » Tractor Manufacturing
- » Truck Body Building
- » Tyre Retreading
- » Tyres (for Three Wheelers and Medium Size Four Wheelers)
- » Tyres and Tubes for Bicycle and Rickshaw
- » Tyres for Truck, Lorry, Bus, Car & Cycle
- » U-Bolts and Center Bolts for Leaf Springs



## Bakery and Confectionery Products: Food Confectionery, Chocolate, Sweets, Lollipop, Candy Bar, Toffee, Chewing Gum, Sugar-based Foods, Confectionery Lozenges, Marshmallow, Jelly, Cream, Biscuits, Processed Food, Bread, Cakes, Pastries, Cookies, Rusk, Sweet Goods



- » Automatic Bread and Biscuits Plant
- » Baker's Yeast
- » Bakery Industry (Bread, Biscuits and Other Products)
- » Bakery Products (Cake & Filled Croissants Puffs)
- » Bakery Unit (Rusk & Cookies)
- » Baking Powder
- » Biscuit Making Plant
- » Biscuits
- » Biscuits & Candy
- » Biscuits & Cookies
- » Book on Bakery Products
- » Bread Factory
- » Bread Making Plant
- » Cake & Filled Croissants Puffs
- » Cake Gel (Cake Improver)
- » Calcium Propionate
- » Caramel Color



- » Cattle Breeding & Dairy Farming to Produce Milk
- » Chewing Gum
- » Chocolate
- » Chocolate & Confectionery
- » Chocolate Confectionery Plant (Milk Chocolate, Dark Chocolate, White Chocolate, Orange and Tangy Flavour Toffee, Citric Flavoured Candies & Chocolate Wafers)
- » Chocolate, Toffee and Candy Industry
- » Chocos (Ready-to-Eat Breakfast Cereal Food)
- » Cocoa Butter and Cocoa Powder
- » Dextrose Powder
- » Energy Bar
- » Energy Protein Bar
- » Functional Food Based Bakery Products (Bread, Cookies and Biscuits)
- » Glucose from Broken Rice
- » Hard Boiled Candy
- » High Fructose Corn Syrup (HFCS)



- » Jaggery (Gur) from Sugar Cane (Export Quality)
- » Khandsari Sugar Processing
- » Maltodextrin
- » Mayonnaise
- » Medicated Lozenges like Strepsils, Tugol
- » Mishri (Sugar Candy)
- » Modern Bakery Unit
- » Non-Dairy Whipping Cream
- » Peanut Butter
- » Pearl Sugar Candies Candy
- » Pickles (Various Types)
- » Protein Bar
- » Ragi Biscuits
- » Soya Lecithin
- » Sugar Candy (Soft & Hard Boiled)
- » The Complete Technology Book on Bakery Products
- » Toffee (Confectionery Industry)



Start Investing in Fastest Growing Industries

## Transparent LPG Cylinder from Fiber Glass

A gas cylinder is a pressure vessel for storage and containment of gases at above atmospheric pressure. High-pressure gas cylinders are also called bottles. Inside the cylinder the stored contents may be in a state of compressed gas, vapor over liquid, supercritical fluid, or dissolved in a substrate material, depending on the physical characteristics of the contents.

Global composite cylinders market stood at \$ 601 million in 2018 and is projected to reach \$ 921 million by 2024, exhibiting a CAGR of over 7% during 2019-2024, owing to increasing demand for explosion proof, non-corrosive and lightweight LPG cylinders. Composite cylinder is a high-pressure vessel that is made of a composite-polymer ma-

PROJECT COST ESTIMATE	
CAPACITY	
Transparent LPG Cylinder	: 2,243.6 Nos. / Day
Plant & Machinery	: ₹ 28274 Lakhs
Cost of Project	: ₹ 32012 Lakhs
Rate of Return	: 25 %
Break Even Point	: 27%

terial and placed in a plastic body. The technology of manufacturing a modern composite cylinder is a very complex and high-tech process, thus its cost is much higher than the cost of a metal analogue. Increasing consumption of LPG in the developing countries is expected to boost the demand.

Indian LPG imports have been registering some remarkable trends in the last 10 years. The growth trends over the last 10 years, 5 years and 1 year are: 17% CAGR (FY07 to FY17), 14% CAGR (FY12 to FY17) and 23%. At nearly 11 million tonnes in FY17, India surpassed Japan's imports at 10.6 million tonnes. Increasing demand for lightweight, explosion proof and non-corrosive LPG cylinders and government push towards the usage of composite cylinders are some of the major drivers of the market. Increase in the consumption of LPG in the developing economies further elevate the demand for composite LPG cylinders over the next five years. As a whole any entrepreneur can venture in this project without risk and earn profit.

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## Manufacturing of MS Fasteners (Screws, Nut and Bolts)

**F**astener may be defined as any device, method or component used to hold or FASTEN two or more engineering components together. Fasteners may be classified into groups and sub-groups according to the functions they perform. Probably the main division is into:

- a. Detachable fasteners (e.g. nut and bolt, screw, etc.);
- b. Non-detachable fasteners (e.g. rivet, weld, adhesive).

Fastener Material can be important when choosing a fastener due to keeping in view the strength, brittleness, corrosion resistance, galvanic corrosion properties. Cost of course an important factor which determines which materials to choose from.

A screw is a broad category of mechanical fastener with a threaded shaft, designed to screw into a part. This includes wood screws and self-tapping screws, which have a tapered shaft with sharp threads designed to cut a mating thread in the part to which they are fastened. It also includes machine screws, which much more closely resemble bolts, but their entire shaft is normally threaded.

Nuts and Bolts are most commonly used items in the family of industrial fasteners and their demand is fast

increasing due to expansion of industries in the country. Bolt is a piece of metal rod whose one end is upset and at the other end threading is done. Nut is a device which rolls on bolt threads. In nuts, internal threading is done while bolts bear external thread. Screw, demonstrate their true merit in the movements, assembly etc, of wooden components. Screws are most popular as fasteners which assemble, or join parts together to be made into a complete unit.

### PROJECT COST ESTIMATE

<b>CAPACITY:</b>	
<b>Zinc Coated High Tension Bolt (Size M5 to M20)</b>	<b>: 16 MT Per Day</b>
<b>Zinc Coated High Tension Screw (Size M5 to M20)</b>	<b>: 8 MT Per Day</b>
<b>High Tension Nut (Size M5 to M20)</b>	<b>: 8 MT Per Day</b>
<b>Plant &amp; Machinery</b>	<b>: ₹ 116 Lakhs</b>
<b>Cost of Project</b>	<b>: ₹ 758 Lakhs</b>
<b>Rate of Return</b>	<b>: 29%</b>
<b>Break Even Point</b>	<b>: 57%</b>

## Natural Bamboo Fiber

**T**he 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.

### PROJECT COST ESTIMATE

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

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.

## Manufacturing Business of Razor Blade for Safety Razor and Disposable Safety Razor

**T**he double-edged safety razor is a razor with a slant bar that can be used on both sides, with two open edges. The blade on the double-edged safety razor is slightly curved to allow for a smoother and cleaner shave. With the disposable razor only made of a single blade and a plastic handle, it easily became a convenient tool for countless of men who liked the fact that they can get a quick shave, even more safely than a safety razor.

The demand for men's grooming market has seen a rise in the last few years because of increased consciousness of their

looks among the male customer. Also as more than 50% of the population is under the age group of 30, the industry has huge local market. Moreover, rising urban middle class population,

and improved distribution channels in tier II and tier III cities, are also expected to stimulate growth in the market through 2020.

Men's grooming product can be divided into Bath & Shower products, Hair Care, Skin Care, Deodorants and Shaving products. Shaving products currently control the largest market share in terms of revenue in Indian men's grooming market. As per NOVONOUS estimates, Indian shaving products market is expected to grow at a CAGR of 20% till 2020 and maintain its market share position even in 2020.

### PROJECT COST ESTIMATE

<b>CAPACITY:</b>	
<b>Disposable Safety Razors</b>	<b>: 864,000 Units Per Day</b>
<b>Razor Blade</b>	<b>: 172,800 Units Per Day</b>
<b>Steel Scrap</b>	<b>: 500 Units per Day</b>
<b>Plant &amp; Machinery</b>	<b>: ₹ 467 Lakhs</b>
<b>Cost of Project</b>	<b>: ₹ 2285 Lakhs</b>
<b>Rate of Return</b>	<b>: 34.51%</b>
<b>Break Even Point</b>	<b>: 43.43%</b>

## Manufacturing Industry of Kraft Paper

**K**raft paper or kraft is paper or paperboard (cardboard) 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. Low lignin is important to the resulting strength of the paper, as the hydrophobic nature of lignin interferes with the formation of the hydrogen bonds between cellulose (and hemicellulose) in the fibers.

### PROJECT COST ESTIMATE

<b>CAPACITY</b>	
<b>Kraft Paper</b>	<b>: 200 MT Per Day</b>
<b>Plant &amp; Machinery</b>	<b>: ₹ 47.24 Cr</b>
<b>Cost of Project</b>	<b>: ₹ 74.42 Cr</b>
<b>Rate of Return</b>	<b>: 26%</b>
<b>Break Even Point</b>	<b>: 49%</b>

The kraft paper market is projected to grow from USD 15.6 billion in 2019 to USD 18.7 billion by 2025, recording a CAGR of 3.0% during the period. The rise in demand for kraft papers in various end-use industries, such as food & beverages, building & construction, cosmetics & personal care automotive, and consumer durables, is a key factor that is projected to drive the growth of the kraft paper market across the globe. In addition, factors such as rapid urbanization across regions and the recyclability feature of kraft papers are projected to contribute to the growth of the kraft paper market.

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## Setup a Dual Feed Distillery (Ethanol as Bio-Fuel)

**B**iofuels are transportation fuels such as ethanol and biomass-based diesel fuel that are made from biomass materials. These fuels are usually blended with petroleum fuels (gasoline and distillate/diesel fuel and heating oil), but they can also be used on their own. Using ethanol reduces the consumption of gasoline and diesel fuel made from crude oil, which can reduce the amount of crude oil imported from other countries.

Molasses is a one precious byproduct of sugarcane, about 1 ton of it produces 4% of molasses by the sugar processing industry in every single run. Molasses contain rich source of nutrients, and it is employed as an effective raw material for the production of organic acids especially ethanol. Ethanol is the major product obtained from the molasses by means of anaerobic fermentations using microorganisms.

Grain based distilleries to produce ethanol. However, benefits of interest subvention scheme is to be extended to only those distilleries which are using or will be using dry milling technique to produce Dry Distillers Grain Soluble (DDGS).

Ethanol is used extensively as a solvent in the manufacture of varnishes and perfumes; as a preservative for biological specimens; in the preparation of essences and flavorings; in many medicines and drugs; as a disinfectant and in tinctures (e.g., tincture of iodine); as a fuel and gasoline additive. Ethanol has been produced from different sources in the past.

### PROJECT COST ESTIMATE

#### CAPACITY:

<b>Ethanol from Molasses</b>	: 5.0 KL Per Day
<b>Ethanol from Grain (Corn)</b>	: 5.0 KL Per Day
<b>DDGS As By Product</b>	: 8.0 KL Per Day
<b>Plant &amp; Machinery</b>	: ₹ 3723 Lakhs
<b>Cost of Project</b>	: ₹ 4778 Lakhs
<b>Rate of Return</b>	: 24%
<b>Break Even Point</b>	: 44%

As India has very large area under sugar cultivation, we can also follow the Brazilian route (i.e. using ethanol as motor fuel) of ethanol production. It has been observed that upto 5% of the ethanol can be blended with petrol without any modification in the carburetor or the engine, provided ethanol to be anhydrous, while upto 10% of ethanol can be blended with minor adjustment in the carburetor or the engine.

Few Indian Major Players

1. Ashley Bio-Fuels Ltd.
2. Bharat Renewable Energy Ltd.
3. Biomax Fuels Ltd.
4. Costal Energy Ltd.
5. First Energy Pvt. Ltd.
6. K B K Chem-Engineering Pvt. Ltd.

## Production of Bricks from Fly Ash

**F**ly Ash brick is a product of basic cement clinker materials i.e. FLY ASH, STONE DUST/SAND, LIME, GYPSUM and BONDING AGENT. The mix is so ideally worked out to produce bricks of higher strength with consistency as well as uniformity. The manufacturing process is fully automatic with state of art technology. Though a new age product introduced in the market, Fly Ash bricks are very well accepted by the organized sectors in heavy industries, high rise buildings, large townships, colonies, etc. because of unique features and merits.

Fly Ash bricks are made of fly ash, lime, gypsum and sand. These can be extensively used in all building constructional activities similar to that of common burnt clay bricks. The fly ash bricks are comparatively lighter in weight and stronger than common clay bricks. Since fly ash is being accumulated as waste material in large quantity near thermal power plants and creating serious environmental pollution problems, its utilization as

main raw material in the manufacture of bricks will not only create ample opportunities for its proper and useful disposal but also help in environmental pollution

control to a greater extent in the surrounding areas of power plants.

Fly Ash Bricks are durable, have Low water absorption, less consumption of mortar, Economical & eco-friendly, Low energy consumption and No emission of greenhouse gases. These bricks are not affected by environmental conditions and remain static thus ensuring longer life of the building. Fly Ash Bricks provides a high level of moisture resistance. It's very economical, cost effective, nil wastage while transporting and handling. Fly Ash Bricks is available in various sizes. These qualitative bricks have high compressive strength and absorb low water.

### PROJECT COST ESTIMATE

#### CAPACITY

<b>Bricks</b>	: 25,000 Nos. Per Day
<b>Plant &amp; Machinery</b>	: ₹ 113 Lakhs
<b>Cost of Project</b>	: ₹ 365 Lakhs
<b>Rate of Return</b>	: 27%
<b>Break Even Point</b>	: 48%

Fly Ash Bricks provides a high level of moisture resistance. It's very economical, cost effective, nil wastage while transporting and handling. Fly Ash Bricks is available in various sizes. These qualitative bricks have high compressive strength and absorb low water.

Fly ash brick industry is necessary for promoting cleaner brick production technology and waste. Since bricks form the backbone of the construction sector, its demand for quality buildings will increase manifold. Fly-ash bricks are gaining acceptance in the Construction Sector. These bricks are eco-friendly and aesthetically appealing. Secondly, they are durable, and resistant to fire and moisture.

## Demanding Business of E-Rickshaw Assembling

**E**rickshaws are now one of the preferred modes of transport in streets because of its low maintenance cost, low fuel cost, Eco-friendly, no noise pollution, easy to drive and last but not the least livelihood, e-rickshaw is a boon to the common man. Without putting in much physical efforts and without investing much amount of money, the earning is quite good for an e-rickshaw driver and hence it is an important means of livelihood for many. These e-rickshaws consist of 3 wheels with a differential mechanism at rear wheels. Basically these vehicles have a mild steel tubular chassis.

The global e-Rickshaw market is projected to expand at around 9% CAGR during the upcoming period. The growth of the market is attributed to low cost of transportation and low power consumption. E-rickshaws are widely accepted as an alternative to diesel, petrol, CNG auto rickshaws. The mismatch between any of

these components is nasty and may reduce performance. The global e-Rickshaw market is projected to expand at around 9% CAGR during the period. The growth of the market is attributed to low cost of transportation due better mileage and low power consumption. Increase in sales and production of electric vehicles as an alternative for fuel-based mobility, owing to several government initiatives and environmental regulations on the electric vehicle industry, is projected to drive the e-rickshaw market.

### PROJECT COST ESTIMATE

#### CAPACITY

<b>E-Rickshaw</b>	: 200 Nos Per Day
<b>Plant &amp; Machinery</b>	: ₹ 2.06 Cr.
<b>Cost of Project</b>	: ₹ 25.80 Cr.
<b>Rate of Return</b>	: 30%
<b>Break Even Point</b>	: 68%

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