

Entrepreneur India



R.N.I. NO. 61509/95

AN ISO 9001-2015 CERTIFIED COMPANY

www.entrepreneurindia.co

₹ 20/-

An Industrial Monthly Journal on

INDUSTRIAL DEVELOPMENT, TECHNOLOGIES & PROJECT OPPORTUNITIES

Vol. 28

No. 07

July 2022

16 Pages

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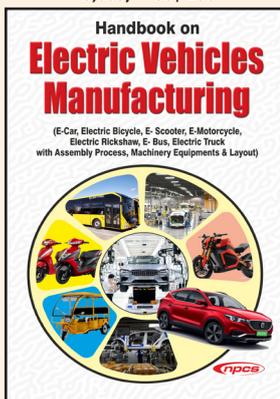
About Us

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.

Handbook on Electric Vehicles Manufacturing

(E- Car, Electric Bicycle, E- Scooter, E-Motorcycle, Electric Rickshaw, E- Bus, Electric Truck with Assembly Process, Machinery Equipments & Layout)

₹ 3,695/- US\$ 250-



An electric vehicle (EV) is one that is powered by an electric motor rather than an internal-combustion engine that burns a mixture of gasoline and gases to generate power. As a result, such a vehicle is being considered as a potential replacement for current-generation automobiles in order to solve issues such as:-

- Growing Pollution
- Global Warming,
- Natural Resource Depletion, and so on.

Despite the fact that the concept of electric vehicles has been around for a long time, it has garnered a lot of attention in the last decade as a result of the rising carbon footprint and other environmental implications of gasoline-powered vehicles.

The global electric vehicle market is expected to increase at a CAGR of 21.7 percent. Increased government investments in the development of electric vehicle charging stations and hydrogen fuelling stations, as well as buyer incentives, will provide chances for OEMs to increase their revenue stream and regional footprint. The EV market in Asia Pacific is expected to develop steadily due to increasing demand for low-cost, low-emission vehicles, whereas the market in North America and Europe is expected to rise quickly due to government initiatives and the growing high-performance passenger vehicle segment.

India's flagship plan for boosting electric mobility is FAME, or Faster Adoption and Manufacturing of (Hybrid and) Electric Vehicles FAME Scheme has been authorized by the government, with 86 percent of overall budgetary support has been set aside for the Demand Incentive, which aims to increase demand for EVs throughout the country. This phase will support e-buses, e-3 wheelers, e-4 wheeler passenger cars and e-2 wheelers in order to build demand.

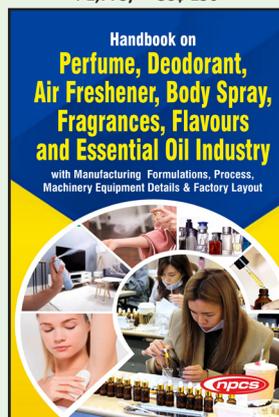
The book covers a wide range of information related to the manufacture of electric vehicles. It includes E- Car, Electric Bicycle, E- Scooter, E-Motorcycle, Electric Rickshaw, E- Bus, Electric Truck with Assembly Process, contact information for machinery suppliers, Directory Section & Factory Layout.

A detailed guide on the manufacturing and entrepreneurship of electric vehicles. This book serves as a one-stop shop for everything you need to know about the Electric Vehicle Manufacturing industry, which is rife with opportunities for startups, manufacturers, merchants, and entrepreneurs. This is the only book on the production of commercial electric vehicles. It's a veritable feast of how-to information, from concept through equipment acquisition.

Handbook on Perfume, Deodorant, Air Freshener, Body Spray, Fragrances, Flavours and Essential Oil Industry

with Manufacturing Formulations, Process, Machinery
Equipment Details & Factory Layout

₹ 1,775/- US\$ 150-



One of the most obvious advantages of wearing perfume is that it masks body odours and keeps us smelling fresh throughout the day. It also contributes to our increased self-assurance. It can be immensely calming to know that we smell nice. Perfume has the ability to influence mood and create the atmosphere desire. Aromatherapy, incense, and ittar have all been in India since ancient times, and essential oil scent is formerly a part of regal tradition. Perfumes are made up of scents or essential oils that give out a pleasing scent.

The global perfume market size valued expected is CAGR of 3.9%. The global deodorant market size is valued is projected to reach a CAGR of 4.0%. The global air freshener market valued at CAGR of 3.5%. An air freshener is a product that typically emits fragrance to eliminate unpleasant odor in a room. Body mist market recorded a value CAGR of 3.7%. Global demand for fragrances is expected to reach rising at a CAGR of 4.7%. The global flavour ingredients market is being aided by the growing flavour and fragrance ingredients market, which stood at a value is expected to grow at a CAGR of 6.0%. The global essential oils market size is estimated to reach at a CAGR of 9.3%.

Successful business ideas in perfume industry is profitable and very viable. Thus, it is a good idea to venture into it by starting your own business. Read this book on for more information about perfume industry in detail. It will help you understand how to get started with your own perfume business. Perfume is a great way to make money because of its high demand in today's market place.

The book contains detailed information about Perfumes in which all aspects are covered. The book is of immense use to professionals in Perfumery & Cosmetics for quick revision as well as in day-to-day life where people would like to know about perfumes. This book also serves as an excellent guide for those who want to venture into perfume industry or have been associated with it.

A complete guide to the Perfume, Deodorant, Air Freshener, Body Spray, Fragrances, Flavours and Essential Oil Industry manufacturing and entrepreneurship. This is the only book that covers the entire process of making commercial Perfume, Deodorant, Air Freshener, Body Spray, Fragrances, Flavours and Essential Oil Industry. It's a veritable feast of how-to information, from concept through equipment acquisition.

A Business Plan for Freeze Dried Fruit & Vegetables

(Dry Banana, Mango, Custard Apple, Beetroot, Sapota, Dragon Fruit, Jamun and Green Peas)

In the sublimation process of freeze-drying, sometimes referred to as lyophilization, water molecules in a solid phase are instantly changed into vapour molecules. Lyophilization is the most intricate and costly type of dehydration, hence it is typically only used with high-value materials that are delicate and heat-sensitive.

Application of Freeze Dried Vegetables

There are many uses for freeze-dried veggies, including pasta recipes, vegetable dips and sauces, instant soups, appetisers, and salad dressings. Vegetable purees created from freeze-dried veggies have a fantastic flavour and are frequently used in recipes without affecting their quality.

Application of Freeze Dried Fruits

Breakfast cereals, confections, bakery mixes,

PROJECT COST ESTIMATE

CAPACITY:

Freeze Dried Raw Banana	: 19 Kgs Per Day
Freeze Dried Mango	: 19 Kgs Per Day
Freeze Dried Custard Apple	: 19 Kgs Per Day
Freeze Dried Beetroot	: 19 Kgs Per Day
Freeze Dried Sapota	: 18.5 Kgs Per Day
Freeze Dried Dragon Fruit	: 18.5 Kgs Per Day
Freeze Dried Jamun	: 18.5 Kgs Per Day
Freeze Dried Green Peas	: 18.5 Kgs Per Day
Plant & Machinery	: ₹ 95 Lakhs
Cost of Project	: ₹ 200 Lakhs
Rate of Return	: 25%
Break Even Point	: 60%

ice cream, snack mixes, pastries, and many more products frequently use freeze-dried fruits. Additionally, freeze-dried fruit purees are a common flavouring ingredient in mixes.

Indian Market

The market for freeze drying in India is predicted to expand at a CAGR of 8.6% during the forecast period. The country's need for quick-to-prepare foods has increased as a result of modern lifestyle adoption and poor work-life balance.

Global Market

By 2025, the market for freeze-dried fruits and vegetables is anticipated to reach more than USD 60 billion. The rise in popularity of packaged foods will play a significant role in the expansion of the market for freeze-dried fruits and vegetables.

Float Glass

(Electricity Dependence on Solar (on Plant Roof Top) and Furnace Heat Recycling inside the Plant)
Production Business

Float glass typically has a compressive strength that is substantially higher than its tensile strength. In order to make paint where glass may be used in more challenging situations than before, strengthening procedures have been developed. The majority of these processes include pre-stressing to introduce surface compression.

Uses

The hue of float glass is a little bit greenish. This is more or less strong depending on thickness and viewing angle; the edges' green colour stands out in particular. The amount of iron oxides in the glass's overall composition is what causes this.

Applications

Float glass is a versatile material with numerous uses, from household housing to commercial applications.

Building industry

Smaller windows in residential buildings are built of float glass, whereas bigger windows are constructed with toughened panes.

Displays

Float glass is the best material for showing things because of its dazzling clarity.

Commercial Glazing

Considering the materials used in the construction of large commercial buildings is essential in a time when environmental friendly practises in the office and at home are receiving a lot of attention.

Market Outlook

The glass market is likely to see considerable potential and is projected to expand at a CAGR of over 12% from 2019 to 2027. According to industry, it is divided into the food and beverage, automotive, and architectural sectors, with the architectural sector holding the majority of market share and expected to experience the highest CAGR in the next years.

PROJECT COST ESTIMATE

Capacity	: 8000 Sq.Mtrs. Per Day
Plant & Machinery	: ₹ 206 Cr
Cost of Project	: ₹ 270 Cr
Rate of Return	: 24%
Break Even Point	: 27%

Set Up Milk Processing Automatic Plant (Milk and Milk Powder)

A dairy product made from cow milk is powdered milk. Essentially, cow's milk is composed of water, lipids, protein, sugar, and ash. Water makes up between 86 and 88 percent of the weight of cow milk. Before the milk is powdered, a sizeable yet proportionate amount of cream material is removed during the skimming process. After some vitamins are added, the processed milk powder is packaged in fully galvanized metal cans or plastic bags.

Uses

1. A common food is milk powder.
2. It is a baby's whole diet.
3. It is used to make ice cream, curd, butter, ghee, and other foods.
4. All houses use milk powder.
5. It is used in hotels and restaurants to prepare milk-based dishes, as well as to make tea and coffee.

Indian Market

With a vast output valued at \$26.9 billion in 2014, India is a significant producer of raw milk (the component for milk

and dairy products). The market has grown as a result of a number of additional variables, such as penetration in new regions, rising incomes, rising standards of living, and population increase. The market projects that it would reach INR 235.6 billion by 2027, growing at a CAGR of 11% from 2022 to 2027.

Global Market

Milk powder facility at AmulFed Dairy, a division of the Gujarat Cooperative Milk Marketing Federation (GCMMF), has increased its daily production capacity from 35 lakh to 50 lakh litres. The market for milk powder was valued at \$27,783.3 million in 2017; by 2025, it is anticipated to reach \$38,086.1 million, rising at a CAGR of 4.4 percent.

PROJECT COST ESTIMATE

CAPACITY:

Pasteurised Milk	: 10,000 Units Per Day
Skimmed Milk Powder	: 10,000 Units Per Day
Raw Cream By Product	: 4,200 Units Per Day
Plant & Machinery	: ₹ 49 Cr.
Cost of Project	: ₹ 63 Cr.
Rate of Return	: 27%
Break Even Point	: 37%

Flat Glass Manufacturing Business

Glass has a microscopic structure similar to that of a liquid, where the various components come together to form an erratic network with no long-range order. A cooled melt is also referred to as glass.

Uses and Application

Glass in Commercial Buildings

Large commercial buildings may now be made energy-efficient structures that maximise natural sunshine while preserving the environment, the climate, and saving energy thanks to advancements in glass technology.

Glass in Residential Houses

In comparison to other building materials like brick, polycarbonate, or wood, glass demonstrates to be a really appealing and contemporary choice.

Interior Design

Glass offers innovative interior design options that can enhance a room's sense of light and space while also adding colour and movement.

Indian Market

In 2021, the Indian flat glass market is expected to be worth over \$3 billion. The market is anticipated to grow at a CAGR of about 7.9 percent between 2022 and 2027. A surge in the flat glass market is projected in the upcoming years due to a growing global building and automotive industry.

Global Market

The market for flat glass was estimated at USD 273.43 billion in 2021, and from 2022 to 2030, it is anticipated to expand at a CAGR of 4.3 percent. Over the forecast period, market expansion is anticipated to be fueled by the rising number of solar energy installations around the world as well as the increasing use of glass architecture in both residential and non-residential projects.

PROJECT COST ESTIMATE

Capacity	: 4000 Sq.Mtrs. Per Day
Plant & Machinery	: ₹ 140 Cr
Cost of Project	: ₹ 187 Cr
Rate of Return	: 24%
Break Even Point	: 30%

Set Up Epoxy Hardener Plant

Epoxy comes close

to achieving the remarkable mechanical and chemical qualities that they would with the hardener without it. To guarantee that the epoxy mixture will fulfil the needs

of the application, the right kind of hardener must be chosen. Always conduct research on both the resin and the hardener to guarantee that the finished epoxy mixture will function as intended.

Uses

When polyamide is produced as a fabric, it can take a woven form, or when it is cast as a resin, it can take on a tougher, more robust structure. It might occasionally be braided for a special combination of suppleness and strength.

Food and Beverage

Polyamide systems are used by the food and beverage sector to encourage excellent cleanliness.

PROJECT COST ESTIMATE

CAPACITY:

Polyamide Hardener	: 6 MT Per Day
Cycloaliphatic Amine Hardener	: 1.2 MT Per Day
Plant & Machinery	: ₹ 4 Cr
Cost of Project	: ₹ 13 Cr
Rate of Return	: 28%
Break Even Point	: 66%

Cycloaliphatic Hardener

- Coatings with high solids
- Adhesives; Flooring; Chemical-resistant Linings; Secondary Containment.

Market Outlook:

During the forecast period of 2021–2031, the U.S. is anticipated to account for roughly 84 percent of the global market share for epoxy hardeners, growing at a CAGR of nearly 5 percent. The increase in air freight, according to the Federal Aviation Administration (FAA), would likely cause the total number of commercial aircraft to reach 8,270 by 2037.

Amine

Zinc Ingots Manufacturing Business Plan

Zn, zinc is a chemical element. At normal temperature, zinc is a slightly brittle metal that, when its oxidation is eliminated, appears silvery-grey. It is the first element in the periodic table's group 12 (IIB). Zinc and magnesium share a few chemical characteristics, including a single normal oxidation state (+2) and similar-sized Zn²⁺ and Mg²⁺ ions. With an annual production of around 13 million tonnes, zinc is the fourth most used metal after iron, aluminium, and copper.

Benefits

EAF dust is a very fine, dusty substance. When processing in a kiln, this presents a challenge since material fines get entrained in the process gas flow and eventually depart the kiln with the off-gases, making the operation incredibly wasteful and useless. The fines are made larger by pelletizing them, preventing entrainment in the process gas.

Global Market

In May 2021, zinc prices increased by 50% year over year, rising to \$2,965 per metric tonne from \$1,975 in May 2020. The hike came after a 45 percent two-year fall from the \$3,500 ten-year peak in 2018. Currently, the price is 11.5 percent higher than the 5-year moving average.

PROJECT COST ESTIMATE

Capacity	: 6 MT Per Day
Plant & Machinery	: ₹ 45 Lakhs
Cost of Project	: ₹ 525 Lakhs
Rate of Return	: 28%
Break Even Point	: 53%

Setting Up

Medical College with Hospital

A hospital is an institution that provides preventive, curative/ameliorative, palliative, or rehabilitative services in the context of health care. The WHO's definition, however, is quite comprehensive and exclusive, and it reads as follows: "an integral part of the medical and social organisation whose mission is to provide for the population complete health care, both curative and preventive; and whose outpatient services reach out to the family in its home environment."

Uses and Application

1. The applicant's primary goal is to pursue a medical education.
2. The applicant has ownership and possession of the suitable plot of land required by the Medical Council of India to establish the proposed medical college.
3. The applicant has obtained an Essentiality Certificate from the relevant State Government or Union Territory Administration.
4. The applicant has secured permission to affiliate with the planned medical college from a reputable university.
5. That the applicant, who lives close to the proposed medical col-

lege, owns and operates a hospital with at least 300 beds, the requisite infrastructure, and the potential to become a teaching facility in accordance with Indian medical council regulations.

Indian Market

By 2022, the healthcare information technology (IT) market, currently valued at US\$ 1 billion, is anticipated to have increased by a factor of 1.5.

The Indian healthcare market, currently valued at about US\$ 100 billion, is expected to rise at a CAGR of 23% to US\$ 280 billion by 2022, according to a forecast from Deloitte Touche Tohmatsu India.

Given that healthcare spending as a % of GDP is rising, there is a considerable opportunity to improve healthcare services. Over 70% of India's population lives in rural areas, which are expected to become a potential source of demand.

PROJECT COST ESTIMATE

Capacity	: 100 Students, 500 Bedded Hospital
Plant & Machinery	: ₹ 18 Cr
Cost of Project	: ₹ 123 Cr
Rate of Return	: 22%
Break Even Point	: 43%

Start Production Business of Rubber Granules from Waste Tyre

Rubber is a polymer of butadiene and one of the most significant chemical components. It is utilised extensively in a variety of fields in the current, technologically advanced world. Rubber is utilised specifically in the tyre industry, which produces tyres for various types of automobiles. Rubber is needed as a raw material for rubber products.

Uses and Application

Rubber may also be utilised in oil refineries, automobile industries, brake pad factories, paving materials for roads, and stadium flooring.

Rubber is occasionally used as fuel in cement factories, where one tonne of tyres is equivalent to

700 kg of standard fuel, or four tyres are equivalent to one barrel of fuel.

Rubber has many applications like: Shoes, tyres, rubber connectors, oil seals, hoses, and similar products are manufactured at factories.

Market Outlook:

India's rubber sector is expanding quickly. India's demand for rubber granules has surged from 5% to 8%. According to the most recent research, between the upcoming assessment periods of 2021–2031, the demand for Rubber granules is expected to increase with a strong growth rate of roughly 4.0 percent to 6.0 percent. The market is anticipated to grow at a healthy rate over the

PROJECT COST ESTIMATE

CAPACITY:

Rubber Granules	: 5 MT Per Day
By Product Steel Wire	: 0.5 MT Per Day
Plant & Machinery	: ₹ 60 Lakhs
Cost of Project	: ₹ 207 Lakhs
Rate of Return	: 28%
Break Even Point	: 60%

coming years due to rising demand for a variety of applications, including playground surfaces, drain construction, road construction, the automobile sector, and others.

Medium Density Fiberboard (MDF) Manufacturing Business

As a dry-formed panel product made from lignocellulosic fibres mixed with a synthetic resin or other suitable binder, fiberboard (MDF) is produced. A hot press is used to compress the panels to a density of between 496 and 801 kilogrammes per cubic metre (kg/m³) (31 to 50 pounds per cubic foot [lb/ft³]). A synthetic glue or other suitable organic binder forms the whole interfiber link.

Uses and Application

- Moulding
- Laminate Flooring
- Laminating & Finishing
- Store Fixtures
- Office & Residential Furniture

Market Outlook

In India, the MDF market is thought to be worth H35 billion and has increased at a CAGR of 5-8 percent over the previous five years. Wood serves as the main raw material for the manufacture of MDF and particle boards. According to FAO, the demand for wood from the Indian wood-based panel industry has grown at a CAGR of 5.5% over the last 10 years and is projected to continue to grow at a CAGR of 5% through 2020.

PROJECT COST ESTIMATE

Capacity	: 100 CBM Per Day
Plant & Machinery	: ₹ 18 Cr
Cost of Project	: ₹ 31 Cr
Rate of Return	: 25%
Break Even Point	: 47%

Manufacturing of Aluminium Ingots from Aluminium Scrap

Aluminum has good corrosion resistance and durability and is malleable, ductile, and simple to cast. It is mined as bauxite ore and mostly exists as alumina when combined with oxygen. Nearly 10% of the world's bauxite reserves are found in India, and a thriving aluminium industry takes use of this. It is anticipated that domestic demand will increase by 8–10%. India is anticipated to have installed capacity for 1.7 to 2 million tonnes of aluminium annually by 2020. Around 3% of the world's aluminium manufacturing is produced in India. Only five key units exist in India's heavily consolidated aluminium industry.

Uses

- Castings for maritime applications that need the highest

PROJECT COST ESTIMATE

Capacity:

Aluminium Alloy Ingots	: 12 MT Per Day
Aluminium Scrap	: 0.20 MT Per Day
Plant & Machinery	: ₹ 7 Cr
Cost of Project	: ₹ 11 Cr
Rate of Return:	: 26%
Break Even Point	: 53%

level of corrosion resistance are suitable for sand and cold environments.

- Used where corrosion resistance or ductility are required; suitable for big, complicated, and thin walled castings in all types of moulds.

- Used in all applications, particularly low pressure die casting that calls for LM 6's increased tensile strength following heat treatment.

- Mainly utilised for castings in sand and cold weather that need to be strong and shock-resistant. Calls for certain foundry procedures and heat treatment.

Market Outlook

Demand is estimated to increase from roughly 1.6 million units in 2013–14 to close to 2.4 million units by the end of 2019–20, and then close to 3.4 million units by 2024–25.

- India's demand for aluminium is predicted to increase by 17–18% annually, driven by expansion in the building, construction, transportation, and packaging industries.

- India's consumption of aluminium is expected to increase to 5.3 million tonnes by 2020 from an anticipated 3.4 million tonnes in FY17.

Aluminium Foil (Pharma Grade) Manufacturing Business

A thin metal sheet is aluminium foil. As a result, it can operate as a complete barrier to mould, moisture, gases, scents, and bacteria. Aluminum's strong reflectivity ensures effective insulation against radiant heat, but its opacity is crucial in protecting light-sensitive foods and beverages from deteriorating.

Uses

- Pharmaceutical tablets
- Bulk & unitized packing of tea and coffee
- Prepared meals
- Bakery products
- Frozen meat, fish

Aluminum Foil Market

•Market share of 64% in 2017, Asia Pacific (APAC) was the leading manufacturer of aluminium foils. 20 percent of the production came from Europe, the Middle East, and Africa (EMEA), 13 percent from North America, and 3 percent from Latin America.

•Up until 2022, the APAC aluminium foil market will expand at the fastest rate, 7.5% to 8%.

Global Aluminium Foil Market Size

•From 2019 to 2024, the global consumption of rolled foil may rise by 5% CAGR, with the transportation

sector accounting for the largest market.

- According to market research on aluminium foil, the consumption of packaging might exceed \$27 Mn by 2022 as a result of rising flexible packaging usage and rising packaged food demand.

PROJECT COST ESTIMATE

Capacity	: 12 MT Per Day
Plant & Machinery	: ₹ 15 Cr
Cost of Project	: ₹ 22 Cr
Rate of Return	: 27%
Break Even Point	: 47%

Business Plan for Production of Surgical Products (Surgical Absorbable Suture, Non Absorbable Suture, Surgical Mesh, Bone Wax, C Section Kits, Surgical Glue & Surgical Stapling)

Surgical products, usually referred to as surgical gadgets, are tools used during surgery to speed up healing and shorten the recovery period. The best surgical product for you will rely on a variety of factors, including your individual medical situation, the type of surgery you will be having, and more. To assist you in getting ready for your own procedure, this article will examine all of the many surgical items available on the market today and describe how they are utilised in surgery.

Suture for Surgery

A surgical suture, usually referred to as a stitch or stitches, is a piece of medical equipment used to hold bodily tissues together and roughly define the boundaries of wounds following an operation or injury.

PROJECT COST ESTIMATE	
CAPACITY:	
<i>Surgical Absorbable Suture</i>	: 5,000 Pcs. Per Day
<i>Non Absorbable Suture</i>	: 5,000 Pcs. Per Day
<i>Surgical Mesh</i>	: 5,000 Pcs. Per Day
<i>Bone Wax</i>	: 5,000 Pcs. Per Day
<i>C Section Kits</i>	: 1,000 Pcs. Per Day
<i>Surgical Glue</i>	: 5,000 Pcs. Per Day
<i>Surgical Stapling</i>	: 2,000 Pcs. Per Day
Plant & Machinery	: ₹ 69 Lakhs
Cost of Project	: ₹ 18 Cr
Rate of Return	: 31%
Break Even Point	: 56%

Biological Sutures

Absorbable sutures should not be used on

body tissue that needs more than two months of tensile strength because they either deteriorate through proteolysis or hydrolysis.

Sutures That Don't Absorb

These sutures do not degrade and maintain a higher tensile strength for extended periods of time.

Market Outlook:

The size of the global market for surgical equipment was estimated at USD 14.34 billion in 2021, and it is anticipated to increase at a CAGR of 9.3% from 2022 to 2030. The market is primarily being driven by factors including an ageing population, an increase in the frequency of lifestyle disorders that eventually require surgery, rising healthcare expenditures, and significant unmet surgical needs.

Set up Sugar Plant

A sweet, crystalline material made from sugar cane and sugar beet is referred to as sugar. It has countless applications in both food and non-food industries. In the food sector, sugar has a number of important purposes in addition to providing a sweet taste.

Uses & Applications

Sugar has several uses in food technology, but its sweet flavour is the major justification for its use and use. The primary functions of added sugar in food include those of sweetener, preservative, texture modifier, substrate for fermentation, flavouring and colouring agent, and bulking agent.

Indian Cane Sugar Market

During the projection period, a CAGR of 4.3 percent is predicted for the Indian cane sugar market (2020-2025). India's sugar production is anticipated to reach a peak over the projection period thanks to supportive government policies and expanding planting areas.

Global Sugar Market

In 2021, the volume of the world sugar market was 185 million Tons. By 2027, the market is anticipated to reach 206.6 million Tons, growing at a CAGR of 1.8 percent between 2022 and 2027.

PROJECT COST ESTIMATE

CAPACITY:	
<i>Sugar</i>	: 100 MT Per Day
<i>Molasses (by Product)</i>	: 44.8 MT Per Day
<i>Baggasse (by Product)</i>	: 342.1 MT Per Day
<i>Paste Mud (by Product)</i>	: 30.3 MT Per Day
Plant & Machinery	: ₹ 149 Cr
Cost of Project	: ₹ 243 Cr
Break Even Point	: 57%

Nicotine Sulphate from Tobacco Leaves Production Business

With human assistance, tobacco is grown, with the leaf being the most valuable component of the plant. Although tobacco may be grown on almost every continent, the top producing nations are the United States, China, India, and Brazil. Large amounts of waste materials, such as rejected leaves, broken pieces of lamina midribs, stalks, and stems accumulate throughout the tobacco production process, yet they can be used to great advantage.

PROJECT COST ESTIMATE

CAPACITY:	
<i>Nicotine Sulphate</i>	: 3.6 MT Per Day
<i>Waste Tobacco</i>	: 28.3 MT Per Day
Plant & Machinery	: ₹ 161 Lakhs
Cost of Project	: ₹ 1416 Lakhs
Rate of Return	: 28%
Break Even Point	: 55%

Uses and Application

Uses of nicotine sulphate are used to create pure nicotine that complies with USP and EP pharmacopeas. Salts and complexes of nicotine as well as electronic cigarettes are produced using nicotine USP/EP in large quantities.

Tobacco in Indian Economy

One of the most important agricultural crops in the world commercially is tobacco. It is a short-lived, robust crop that can withstand droughts and be grown in soils where other crops cannot be grown successfully. A 0.45 million hectare (0.27 percent of the net cultivated area) of tobacco is farmed in India, yielding about 750 million kilogrammes of tobacco leaf.

Hybrid Electric Scooter Assembling

A plug-in hybrid electric vehicle (PHEV) is an HEV that can be plugged-in or recharged from wall electricity. PHEVs are distinguished by much larger battery packs when compared to other HEVs. The size of the battery defines the vehicle's All Electric Range (AER), which is generally in the range of 30 to 50 miles. PHEVs can be of any hybrid configuration. PHEVs start in 'all electric' mode, runs on electricity and when the batteries are low in charge.

PROJECT COST ESTIMATE

CAPACITY	
Hybrid Electric Scooter	: 50 Nos./Day
Plant & Machinery	: ₹ 95 Lakhs
Cost of Project	: ₹ 279 Lakhs
Rate of Return	: 34%
Break Even Point	: 74%

India electric scooters and motorcycles market size valued at \$24.6 million in 2016, it is expected to grow at a CAGR of 45.4% during 2017- 2025. Some 4,50,000 electric two-wheelers were sold in India in the past eight years. The potential of electric vehicles in this segment is massive, say industry executives, given that more than 17 million two-wheelers are sold annually in the country. This facilitates the development of new technologies and ensures a high quality product.

Compressed Wood Pallets

Presswood pallets, also known as molded wooden pallets, are made of wood byproducts such as waste pallets, raw wood shavings, wood waste, saw-dust and any other material containing wooden fibre. Their unique design means that they can hold substantial load capacities, whilst also being relatively lightweight. They are also both stackable and nestable, helping to reduce storage space and freight costs during shipment. Generally they are made from 'resinous' trees (pine, fir, etc.), the chips come directly from logging and sawmills or from the wood recycling industry. This makes this particular type of pallet extremely eco-friendly. Compressed wood pallets are recognized worldwide as complying with ISPM 15 and that the vast majority of countries readily accept the pallets without the need for further treatment.

PROJECT COST ESTIMATE

CAPACITY

Compressed Wood Pallets (each 15 Kgs)	: 180 Pcs. Per Day
Plant & Machinery	: ₹ 155 Lakhs
Cost of Project	: ₹ 408 Lakhs
Rate of Return	: 25%
Break Even Point	: 67%

The demand for pallets in India is expected to increase at a Y-o-Y growth rate of 9.3% in 2016 over 2015. The India pallets market is estimated to register a CAGR of 13.9% during the forecast period (2016-2024). These are the major findings of a report titled "Pallets Market: Demand for pallets in India is expected to increase at a significant rate due to the growth of the manufacturing sector in India. Growing demand for safe transportation of products is also likely to propel the growth of the market. Moreover, a rise in the development of the warehousing and logistical structure in India is anticipated to boost pallet usage shortly.

Increased demand from the user industry, up-surged economic activity, positive business sentiments and rising investment in the manufacturing and infrastructure facilities are the major growth drivers for global pallet market in the upcoming years. In addition to that, escalating demand from packaging and automobile industry is yet another factor to act as a growth driver for the global pallet market in coming future. The limited availability of raw material and high cost of raw material are the two major challenges for the global pallet market.

Start Ferrosilicon Production Business

Ferrosilicon is an alloy made of silicon (SiO₂), aluminium (Al₂O₃), and a number of additional elements. The average silicon content of ferrosilicon, an alloy of silicon and iron, ranges from 15 to 90 weight percent. This ferro alloy is used to create a range of steels with a variety of uses. In the production of spring steel, transformer steel, and other alloy steels, ferrosilicon is utilised as an alloying element.

Uses and Applications

Ferrosilicon is also used to make silicon, ferrous silicon alloys that withstand corrosion and high

PROJECT COST ESTIMATE

Capacity	: 26.7 MT Per Day
Plant & Machinery	: ₹ 19 Cr
Cost of Project	: ₹ 39 Cr
Rate of Return	: 26%
Break Even Point	: 63%

temperatures, and silicon steel for the cores of electromotors and transformers. Ferrosilicon is injected into the iron during the casting process to hasten graphitization. Ferrosilicon is a component of

several electrode coatings used in arc welding.

Market outlook

It is expanding, although at a negligible rate. Since 2001-2002, the sector has experienced a very impressive rise. It grew by nearly 8% between 2002 and 2007, and up until 2011-12, it is anticipated to rise by roughly 4%. There will be a few mild bursts at roughly 5.5 percent after that. The market for ferrosilicon was estimated to be worth USD 11.0 billion in 2021, and from 2022 to 2030, it is anticipated to increase at a CAGR of 2.4 percent.

Controlled Atmosphere Cold Storage

Controlled atmosphere storage is a system for holding produce in an atmosphere that differs substantially from normal air in respect to CO₂ and O₂ levels. Controlled atmosphere storage refers to the constant monitoring and adjustment of the CO₂ and O₂ levels within gas tight stores or containers.

Controlled atmosphere (CA) storage involves maintaining an atmospheric composition that is different from air composition (about 78% N₂, 21% O₂, and 0.03% CO₂); generally, O₂ below 8% and CO₂ above 1% are used. Control Atmosphere cold storage mainly used for long-term storage of perishable fruits.

PROJECT COST ESTIMATE

CAPACITY

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

In this type of cold storage, apart from temperature concentration of oxygen, carbon dioxide, ethylene and nitrogen is maintain as per the requirement of the storage material.

The estimated annual production of fruits and vegetables in the country is about 130 million tonnes accounting to 18 per cent

of our agricultural output. Moreover, the lack of cold storage and cold chain facilities are becoming major bottlenecks in tapping the vast potential. Govt. of India promoting cold storage warehouse investments by providing subsidies up to 50% to 75% on Investment.

The nationalized banks of India are also proving loans for cold storage projects. In the recent time cabinet also approved the amount of 6000 crore rupees for mega food processing projects. The country requires 3.5 crore tonne capacity cold storage facilities and this is a right time for starting a business in cold storage.

Natural Tanning Powder Production Business

Comparatively speaking to other methods of tanning, natural tanning is now the most conventional, classic, and identifiable technique. It is the only process that gives leather special qualities while also being environmentally friendly. Comfort, elegance, style, versatility, and individuality are all present in plant-tanned leathers.

Uses:

Mainly used in food and pharmaceutical industries, it has an excellent taste and smell, good nutrition and can be directly used. It is mainly made from chicken feathers, fish scales, eggshells, hair of animals such as horses and pigs.

PROJECT COST ESTIMATE

Capacity	: 600 MT Per Annum
Plant & Machinery	: ₹ 37 Lakhs
Cost of Project	: ₹ 270 Lakhs
Rate of Return	: 28%
Break Even Point	: 63%

Market Outlook:

In notably the US and Europe, rapid industrialization and the potential for fatal injuries in the manufacturing industry have drawn the attention of regulatory agencies like ILO, OSHA, and NIOSH to worker safety. This prompted the creation of stringent guidelines for the use of personal protective equipment (PPE). PPE

frequently consists of leather gloves and safety shoes. Hence opening up new potential opportunities for the leather chemicals market.

Indian Leather Industry

The Indian leather industry handles a significant annual production of about 3 billion square feet of leather, or 12.93% of the world's total leather production of hides and skins. Nine percent of the world's footwear output is produced in this nation. With an estimated 2.41 billion pairs produced annually, India is the second-largest footwear producer in the world (2017). During the 2018-19 fiscal year, India's exports of footwear, leather, and leather goods were \$5.69 billion USD.

Opportunities in Drinking Water with Packaging in Aluminium Beverage Cans (Mineral, Carbonated, Alkaline)

It is needless to mention that water, a compound of Hydrogen and Oxygen is a precious natural gift which is very essential for survival of mankind including animals. The water used for potable purposes should be free from undesirable impurities. The water available from untreated sources such as Well, Boreholes and spring is generally not hygienic and safe for drinking. Thus it is desirable and necessary to purify the water and supply under hygienic conditions for human drinking purpose.

Drinking water, also known as potable water, is water that is safe to drink or use for food preparation. The amount of drinking water required to maintain good health varies, and depends on physical activity level, age, health-related issues, and environmental conditions. Typically in developed countries, tap water meets drinking water quality standards, even though only a small

PROJECT COST ESTIMATE

CAPACITY:

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

proportion is actually consumed or used in food preparation. Other typical uses include washing, toilets, and irrigation. The World Health Organization considers access to safe drinking-water a basic human right.

Mineral water is water from a mineral spring that contains various minerals, such as salts and sulphur compounds. Mineral water may usually be still or sparkling (carbonated/effervescent) according to the presence or absence of added gases. Traditionally, mineral waters

were used or consumed at their spring sources, often referred to as "taking the waters" or "taking the cure," at places such as spas, baths, or wells.

The global bottled water market size was valued at USD 217.66 billion in 2020 and is expected to expand at a compound annual growth rate (CAGR) of 11.1% from 2021 to 2028. Portability, easy usage and installation process, and minimal maintenance costs are the key factors to drive the market over the next few years. Furthermore, rising consumer consciousness towards the health benefits of consuming bottled water is projected to drive market growth over the forecast period. In recent years, plain and flavored varieties of still and sparkling water have become widely popular beverages at the global level. This is an emerging megatrend and is foreseen to remain prevalent in the coming years.

Opportunities in Manufacturing of Solar Inverter (100 KVA – 1000 KVA)

A solar inverter or PV inverter, is a type of electrical converter which converts the variable direct current (DC) output of a photovoltaic (PV) solar panel into a utility frequency alternating current (AC) that can be fed into a commercial electrical grid or used by a local, off-grid electrical network. It is a critical balance of system (BOS)-component in a photovoltaic system, allowing the use of ordinary AC-powered equipment. Solar power inverters have special functions adapted for use with photovoltaic arrays, including maximum power point tracking and anti-islanding protection.

Advanced solar pumping inverters convert DC voltage from the solar array into AC voltage to drive submersible pumps directly without the need for batteries or other energy storage devices. By utilizing MPPT (maximum power point tracking), solar pumping inverters regulate output frequency to control the speed of the pumps in order to save the pump motor from damage. Solar pumping inverters usually have multiple ports to allow the input of DC current generated by PV arrays, one port to allow the output of AC voltage, and a further port for input from a water-level sensor.

PROJECT COST ESTIMATE

CAPACITY

Solar Inverter	: 15 Nos Per Day
50 Hz 100 to 1000 KVA	
Plant & Machinery	: ₹ 373 Lakhs
Cost of Project	: ₹ 1288 Lakhs
Rate of Return	: 26%
Break Even Point	: 47%

The solar PV inverters market is expected to register a CAGR of more than 8%. The industry has also been hit severely due to a reduction in electricity consumption and declining economic growth. However, with resuming market activities globally, the demand for the market is growing at a faster rate. Factors, such as a drop in inverter prices and the increasing solar PV installations, are expected to boost the market growth. Advancement in technology leading to solar panel manufacturing cost reduction and increase in efficiency have also been a major factor for the growth of the solar PV inverters market. However, lack of general awareness, infrastructure development costs, and recent subsidy cuts on solar panels by governments in the Asia-Pacific region has hampered the market growth.

Dal Mill (Pulse)

India is the still by and large vegetarian in dietary habit and heavily depends upon vegetative source to meet out its daily protein requirement. India is bound to be global leader in terms of production and consumer of pulses. Since, India is leading importer of pulses; production of pulse/legume crops has been stagnant over the years.

They are the main sources of protein. The important dals in the country are Channa, Moong, Urad, Moth, turdal and Masoor, Matar etc. The pulses are used for preparing hot dishes, sweet dishes and other varieties. Pulses are the important sources of proteins, vitamins and minerals and are popularly known as "Poor man's meat" and "rich man's vegetable", contribute significantly to the nutritional security of the country. India is the largest producer (25% of global production), consumer (27% of world consumption) and importer (14%) of pulses in the world.

The dal milling industry in India is one of the major agro processing industries in the country. From an annual production of 13.19

million tonnes of pulse in the country, 75% of these pulses are processed by dal mills. Thus, due to demand it is a good project for entrepreneurs to invest.

PROJECT COST ESTIMATE

CAPACITY:

Black Gram Dal	: 1800 MT/ Annum
Channa Dal	: 1800 MT/ Annum
Green Gram Dal	: 1800 MT/ Annum
Turdal	: 1800 MT/ Annum
Plant & Machinery	: ₹ 104 Lakhs
Cost of Project	: ₹ 221 Lakhs
Rate of Return	: 29%
Break Even Point	: 70%

Cow Urine (Gomutra) Processing and Packing

Gomutra is not a toxic waste material. 95% of it is water, 2.5% consists of urea, and the remaining 2.5% is a mixture of minerals, salts, hormones and enzymes. Gomutra or gaumutra cow urine is urine from cows used for therapeutic purposes in traditional Indian medicine, Ayurveda and also for purification in VaastuShastra. Cow urine has bio enhancing activity for Rifampicin, the front-line anti-tubercular drug used against tuberculosis, increasing its action up to sevenfold against Escherichia coli, and up to 11-fold against Gram-positive bacteria.

There are more than 50 units processing cow urine in India. That cow urine is in demand not just in India, but around the world, became evident recently when health authorities in London raised objections to shopkeepers placing cow urine concentrate on shelves next to food items. As a whole any entrepreneur can venture in this project without risk and earn profit.

PROJECT COST ESTIMATE

CAPACITY

Distilled Cow Urine : 2000 Lts./Day (Gomutra)	
Plant & Machinery	: ₹ 22 Lakhs
Cost of Project	: ₹ 187 Lakhs
Rate of Return	: 28%
Break Even Point	: 68%

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NIIR PROJECT CONSULTANCY SERVICES

AN ISO 9001:2015 CERTIFIED COMPANY

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

E-mail : info@niir.org , npc india@gmail.com

SELECTED BUSINESS IDEAS FOR RIGHT INVESTMENT

EACH DETAILED PROJECT REPORT (BUSINESS PLAN) CONTAINS

BEGINNING : Project Introduction, Brief History of the Product, Properties, BIS (Bureau of Indian Standard) Specifications & Requirements, Uses & Applications.

MARKET SURVEY : Present Market Position, Expected Future Demand, Statistics of Imports & Exports, Export Prospect, Names and Addresses of Existing Units (Present Manufactures).

PLANT & MACHINERY : List of Plant & Machineries, Miscellaneous Items and Accessories, Instruments, Laboratory 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.

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- Data provided are reliable and upto date collected from suppliers/ manufacturers, plant already commissioned in India.

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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

Bamboo and Bamboo Products, Value-Added Bamboo Products



- » Activated Carbon from Bamboo
- » Bamboo Fabric (Bamboo Textile)
- » Bamboo Furniture
- » Bamboo Paper Based Products
Manufacturing Tissue Paper, Paper Bags & Plates
- » Bamboo Sticks



- » Bamboo Toothbrush
- » Bamboo Toothpicks
- » Eco-Friendly Bamboo Based Products
- » Manufacturing- Tissue Paper, Paper Bags & Plates
- » Handicraft (Cane & Bamboo)
- » Natural Bamboo Fiber



- » Paper from Bamboo
- » Paper from Waste Paper, Bamboo Chips, Rice Husk & Wheat Husk
- » Paper, Pulp and Paper Board from Bamboo
- » Paper, Pulp from Bamboo, Wood and Grass
- » Ply Board from Bamboo



Banana Products: Banana Flavour, Banana Puree, Banana Based Industries, Banana Processing, Banana Concentrate, Banana Pulp, Banana Wine, Banana Beer, Banana Chips, Wafers, Banana Powder and Value Added Products

- » Banana & Its By-Products
- » Banana Plantation
- » Banana Powder

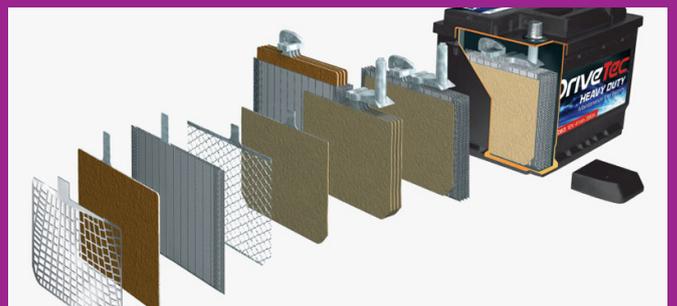


- » Banana Products
(Banana Powder, Banana Puree and Banana Concentrate)



- » Banana Wafers
- » Banana Wafers (Deep Fried Snack Food)
- » Disposable Plates from Banana Leaves

Battery Projects, Automobile Batteries, Lead Acid Battery, Lithium Battery, Lithium-Ion (Li-Ion) Battery, Maintenance Free Rechargeable Battery, Battery Recycling, Battery Plate, Battery Separator



- » Agricultural Battery Sprayer.
- » Battery for Auto Vehicles
- » Battery Operated Ride on Car for Kids
- » Battery Plate
- » E-Waste & Lithium Battery Recycling Plant
- » Lead Acid Battery



- » Lead Acid Battery (Maintenance Free)
- » Lead Acid Battery Recycling
- » Lithium Battery & E-Waste (Electronic Waste)
- » Lithium Ion (Lifepo4) Cell
- » Lithium Ion Battery-Li-Ion Battery (Battery Assembly)

- » Lithium-Ion Battery (Lib)
- » Maintenance Free Rechargeable Battery
- » Plastic Battery Containers
- » PVC Battery Separator



Beer and Wine Industry, Winery Project, Grape Wine Projects, Wine Yard, Grape Cultivation

- » Banana Beer
- » Banana Wine
- » Barley Malt
- » Beer & Whisky
- » Beer & Wine
- » Beer Industry
- » Beer Industry (Export Unit)
- » Beer Plant
- » Beer Production from Rice with Packaging in Can & Bottles
- » Beer, Whisky & Rum



- » Beer, Wine & Whiskey (From Pineapple)
- » Blended Alcohol with Bottling Line (Molasses Based)
- » Craft Beer
- » Craft Beer (Microbrewery or Craft Brewery)
- » Craft Brewery or Distillery (Startup)
- » Fruit Wine (Alcoholic Beverage)
- » Grain Based Alcohol (Distillery)
- » Grape Wine



- » Herbal Wine
- » IMFL, Indian Made Foreign Liquor (Whiskey, Rum, Gin, Vodka and Brandy)
- » Microbrewery
- » Rice Flakes from Broken Rice (Used In Beer Industry)
- » Vodka from Potato
- » Wine from Grapes
- » Wine from Kinnow Fruits
- » Wine Industry
- » Wine Production from Pineapple and Ginger



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

Bicycle Industry: Bicycle Spare Parts, Bicycle Components, Bicycle Accessories, Bicycle Assembling, Cycle, Bicycle Tyres and Tubes, Bicycle Tools and Equipment



- » Bicycle Tyres
- » Bicycle Plant
- » Rickshaw Cycle Tyre & Tubes
- » Cycle and Van Tyre and Tubes
- » Bicycle Tubes and Motorcycle Tubes



- » Tyres and Tubes for Bicycle and Rickshaw
- » Bicycle Tubes
- » Bicycle Tyres & Tubes from Natural Rubber
- » Bicycle
- » Bicycle and Cycle Rickshaw

- » E-Rickshaw Assembling
- » Bicycle Tyre & Tubes Production from Natural Rubber
- » Bicycle Rim



Biodegradable Products, Recyclable, Disposable, Eco-Friendly Plastics, Bioplastics, Compostable, Biodegradable Packaging for Food Products, Bio-based Polymers, Oxo-biodegradable Plastics, Bio-Nano composite using Maize, Corn, Sugarcane Bagasse

- » Bamboo Furniture
- » Bio Plastic Products
- » Bio-Based and Biodegradable Plastics
- » Biodegradable and Compostable Disposable Cups and Plates from Sugarcane Bagasse and Wheat Straw
- » Biodegradable Diapers and Sanitary Napkins
- » Biodegradable Disposable Cups and Plates Using Sugarcane Bagasse
- » Biodegradable Disposable Plastic Cutlery
- » Biodegradable Plastic Bag
- » Biodegradable Plastic Bags- Biodegradable Compostable Carry Bag, Eco Friendly Bag Production from Corn & Cassava Starch
- » Biodegradable Plastic Packaging
- » Biodegradable Plastic Pellets
- » Biodegradable Plastic Pellets (Corn Starch Thermoplastic & Polyvinyl Alcohol) PBAT & Corn Starch Thermoplastic PLA PBAT Corn Starch Thermoplastic PLA PBAT Caco3
- » Bio-Degradable Plastic Polymer from Corn



- » Biodegradable Plastic Products (Bags, Plates & Glasses)
- » Biodegradable Plates & Bowls from Areca Tree Leaf
- » Biodegradable Plates Production from Areca Nuts Tree Leaf, Barks and Bamboo
- » Bio-Degradable Products from Sugarcane Bagasse (Plates, Bowls, Spoons and Cups)
- » Biodegradable Tableware from Corn Starch
- » Bio-Plastic Bags and Containers from Corn Starch
- » Bioplastic Carry Bags and Garbage Bags
- » Bioplastic Film
- » Bioplastic Film Using Biodegradable Resin
- » Coir Mattresses
- » Disposable Plates from Banana Leaves
- » Good Scope in Biodegradable Plastic Products
- » Gunny Bags
- » Jute Garments
- » Jute Shopping Bags
- » Jute Twine (Jute Rope) & Gunny Bag from Raw Jute
- » Jute Yarn, Jute Sutli & Hessian Cloth Weaving Integrated Unit



- » Natural Food Colours
- » Paper Bags for White Cement Packaging
- » Paper Cups
- » Paper Napkins, Toilet Rolls & Facial Tissue
- » Paper Plates
- » Paper Shopping Bags, Cups, Glass & Envelopes
- » Pet Bottle from Pet Resin
- » Pet Bottle Recycling
- » Pet Bottles
- » Pet Bottles and Containers from Pet Resin
- » Pet Pre-Form from Pet Resin
- » Pet Recycling
- » Polyester Fiber from Corn/Starch
- » Polylactic Acid (PLA)
- » Polylactic Acid (PLA) From Lactic Acid
- » Polyvinyl Alcohol (PVA)
- » Printed Paper Shopping Bags
- » Recycling of Pet
- » Rice Husk Based Biodegradable Cutlery
- » Sanitary Napkin (Low Investment Project)
- » Toilet Paper Roll



Biotechnology, Bio-Technology, Industrial Biotechnology, Biotech Sector, Industry, Biotech Projects, Enzymes Papain, Phytase, Lipase, Enzyme, Food Biotechnology, Industrial Enzymes, Vermiculture, Vermicompost, Biofertilizer, Organic Farming, Biogas



- » Agar Agar
- » Baker's Yeast
- » Bio-Degradable Plastic Polymer from Corn
- » Biofertilizer (Granules)
- » Biofertilizer and Phosphate Rich Organic Manure (Prom)
- » Biofertilizer from Birds Excreta
- » Biofertilizer from Cotton Seed Cake
- » Biogas Production
- » Biomass Briquettes from Bio Waste
- » Biopesticides (Trichoderma Harzianum, Pseudomonas Fluorescens, Beauveria Bassiana)
- » Blended Alcohol with Bottling Line (Molasses Based)
- » Bromelain Enzyme Production from Pineapple Stems
- » Button Mushroom Cultivation
- » Caffeine
- » Charcoal from Biomass
- » Enzyme (Alkaline Protease, Amylase, Cellulose, Laccase)



- » Enzyme (In Powder Form)
- » Enzymes
- » Extraction of Pectin from Citrus
- » Fulvic Acid
- » Humic Acid
- » Hydroponic Green House Farming
- » Industrial Enzymes
- » Jatropha Plantation & Oil Extraction (Used As Biofuel)
- » Liquid Biofertilizer
- » Liquid Organic Fertilisers (Biofertiliser)
- » Micro Propagation Growth of Tissue Culture
- » Micro propagation of Plant (Green House)
- » Mixed Fertilizer (From Organic Waste)
- » Mushroom Production Process
- » N-Acetyl Glucosamine through Chitin Biotechnically
- » NPK Complex Organic Fertilizer Plant
- » Organic Fertilizer (In Solid and Liquid Forms)
- » Organic Fertilizer from Solid Waste



- » Organic Yeast from Organic Molasses
- » Pectin from Citrus, Lemon and Oranges
- » Pectin from Raw Papaya
- » Pesticides from Neem Seeds & Leaves
- » Phosphate Rich Organic Manure (Prom)
- » Polyphenols Antioxidants from Tea Extracts
- » Production of Industrial Enzymes
- » Production of Pectin from Citrus, Lemon and Orange
- » Shiitake Mushroom
- » Tissue Culture
- » Tissue Culture Laboratory (For Production of Potato Seeds)
- » Vermicompost
- » Vermicompost and Organic Manure
- » Vermicompost from Solvent Extracted Spice Waste
- » Vermiculture
- » Vermiculture Production with Training Centre
- » Yeast from Molasses



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

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Industrial Gases

Industrial gases are gaseous materials that are manufactured for use in Industry. The principal gases provided are nitrogen, oxygen, carbon dioxide, argon, hydrogen, helium and acetylene; although a huge variety of gases and mixtures are available in gas cylinders. Industrial gases are used in a wide range of industries, which include oil and gas, petrochemicals, chemicals, power, mining, steelmaking, metals, environmental protection, medicine, pharmaceuticals, biotechnology, food, water, fertilizers, nuclear power, electronics and aerospace. Industrial gas is sold to other industrial enterprises; typically comprising large orders to corporate industrial clients, covering a size range from building a process facility or pipeline down to cylinder gas supply.

Industrial gas is a group of materials that are specifically manufactured for use in industry and are also gaseous at ambient temperature and pressure. They are chemicals which can be an elemental gas or a chemical compound that is either organic or inorganic, and tend to be low molecular weight molecules. They could also be a mixture of individual gases. They have value as a chemical; whether as a feedstock, in process enhancement, as a useful end product, or for a particular use; as opposed to having value as a "simple" fuel.

PROJECT COST ESTIMATE

CAPACITY:

Oxygen Gas	: 350 Nos. Per Day (7M3 each Cylinder)
Nitrogen Gas	: 100 Nos. Per Day (7M3 each Cylinder)
Plant & Machinery	: ₹ 147 Lakhs
Cost of Project	: ₹ 466 Lakhs
Rate of Return	: 27%
Break Even Point	: 57%

As per the latest report by Persistence Market Research (PMR), the global market for industrial gases is likely to witness robust growth, registering a 7.7% CAGR between 2017 and 2025. The global industrial gases market is estimated to reach US\$ 114.5 Bn in revenue by 2025 end. Rise in Metal Manufacturing & Fabrication to Boost Demand for Industrial Gases there has been an exponential increase in metal manufacturing in recent years. Argon is also witnessing an increasing demand for fabrication and manufacturing to use as a shield gas in welding processes. Oxygen to Emerge as the Highly Preferred Gas in the Global Industrial Gases Market Oxygen is one of the largest used gases across various industries including steel, chemical, paper and pulp, and other industries.

Fractionation of Turpentine Oil

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

Pine oils are also widely utilized in cleaning & home products owing to their superior antibacterial and

PROJECT COST ESTIMATE

CAPACITY

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

antiseptic properties. Other uses includes Ore-dressing Agent, Textile Degreaser, Bactericide, Fragrance, Others Customers are keen on specialized products as various applications require specific characteristics and ingredients.

Pine Oil (CAS 8002-09-3)

Market is predicted to discover Vigorous Growth by 2021. Throughout the world every industry is spending a large amount in Research for future expansion. Growing consumer preference for natural products has led to the development of innovative applications in personal care and cleaning products. Rapid industrialization and increasing disposable consumer income are the other major factors driving the market growth, mainly in developing countries such as China, India, Vietnam, and Thailand. Thus, as an entrepreneur this project offers an exciting opportunity to you.

Glass Fiber Reinforced Polymer (GFRP) Rebar Manufacturing Business

Rebar made of glass fibre reinforced polymer is a highly valuable building material. Governments and other large-scale infrastructure providers now recognise that GFRP is an affordable building material with the ability to increase the lifespan of public facilities where corrosion can have a significant negative impact on the economy and the environment. The use of fibreglass reinforcement material has grown significantly as a result of the growth in corrosion caused by climate change.

Uses

GFRP bars are currently widely

PROJECT COST ESTIMATE

Capacity	: 1200 MT Per Day
Plant & Machinery	: ₹ 588 Lakhs
Cost of Project	: ₹ 6097 Lakhs
Rate of Return	: 34%
Break Even Point	: 51%

used as concrete reinforcement all over the world. Numerous studies have been conducted to assess the field performance of the numerous structures erected to demonstrate the potential for GFRP reinforcement to be employed in other applications. GFRP bars have been used in the construction of

marine constructions, parking garages, and bridge decks.

Market Size

Market Size: USD 171.3 Million in 2020; Market Growth: 13.2% CAGR; Market Trends: escalating need for FRP rebars in waterfront construction and maritime constructions

According to the most recent report by Emergen Research, the global fibre reinforced polymer (FRP) rebar market size reached USD 171.3 Million in 2020 and is projected to grow at a 13.2 percent revenue CAGR over the forecast period.

Water Park

The global water parks market size was valued at USD 45.2 billion in 2017. It is likely to expand at a CAGR of 5.8% from 2018 to 2025. Innovative rides, accommodation facilities, and merchandise in water parks are gaining popularity among visitors of all age groups. As a result, there is a rise in the number of adults and children visiting water parks, thus expanding the size of the target audience. Thus, due to demand it is best to invest in this project.

PROJECT COST ESTIMATE

CAPACITY:

Water Park Visitors	: 1,000 Visitors / Day
Room Rent from Resort	: 25 Visitors / Day
Restaurant-Vegetarian Visitors	: 300 Visitors / Day
Restaurant-Non-Veg. Visitors	: 200 Visitors / Day
Restaurant-Beverages, Tea & Coffee Visitors	: 475 Visitors / Day
Plant & Machinery	: ₹ 1086 Lakhs
Cost of Project	: ₹ 3208 Lakhs
Rate of Return	: 33%
Break Even Point	: 38%

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5 Star Hotel

A hospitality unit such as a restaurant, hotel, or an amusement park consists of multiple groups such as facility maintenance and direct operations (servers, housekeepers, porters, kitchen workers, bartenders, management, marketing, and human resources etc.).

The common law says that hotel is a place where all who conduct themselves properly and who being able and ready to pay for their entertainment, accommodation and other services including the boarding like a temporary home. It is home away from home where all the modern amenities and facilities are available on a payment basis.

A hotel is an establishment that provides lodging paid on a short-term basis. Facilities provided may range from a modest-quality mattress in a small room to large suites with bigger, higher-quality beds, a dresser, a fridge and other kitchen facilities, upholstered chairs, a flat screen television and ensuite bathrooms. Small, lower-priced hotels may offer only the most basic guest services and facilities. Larger, higher-priced hotels may provide additional guest facilities such as a swimming pool, business centre (with computers, printers and other office equipment), childcare, conference and event facilities, tennis or basketball courts, gymnasium, restaurants, day spa and social function services. Hotel rooms are usually numbered (or named in some smaller hotels and B & Bs) to allow guests to identify their room. Some boutique, high-end hotels have custom decorated rooms. Some hotels offer meals as part of a room and board arrangement.

Most hotel establishments are run by a General Manager who serves as the head executive (often referred to as the "Hotel Manager"), department heads who oversee various departments within a hotel (e.g., food service), middle managers,

administrative staff, and line-level supervisors. The organizational chart and volume of job positions and hierarchy varies by hotel size, function and class, and is often determined by hotel ownership and managing companies.

Hotels are found in almost all the cities. Hotels operate twenty four hours a day, seven days a week. The principal factor that determines the guest attitude towards a hotel is service although other amenities such as room, food and beverages are of equal importance tangible determinants.

Motel – The Concept Initially the term motel was meant for local motorists and foreign tourists travelling by road. They serve the needs and requirements of these travellers and meeting their demand for transit

PROJECT COST ESTIMATE

CAPACITY:	
<i>Deluxe Rooms (Rent)</i>	: 38 Units Per Day
<i>Executive Rooms (Rent)</i>	: 28 Nos. Per Day
<i>Business Clientele Rooms (Rent)</i>	: 17 Nos. Per Day
<i>Suits Rooms (Rent)</i>	: 17 Nos. Per Day
<i>Coffee Shop (Visitors)</i>	: 25 Nos. Per Day
<i>Restaurant (Visitors)</i>	: 75 Nos. Per Day
<i>Bar (Visitors)</i>	: 25 Nos. Per Day
<i>Marriage Season – Booking</i>	: 0.15 Nos. Per Day
<i>Birthday</i>	: 0.17 Nos. Per Day
<i>Conferences</i>	: 0.17 Nos. Per Day
<i>Anniverseries</i>	: 0.17 Nos. Per Day
<i>Plant & Machinery</i>	: ₹ 1172 Lakhs
<i>Cost of Project</i>	: ₹ 4032 Lakhs

and accommodation. Some of the important services offered by the motels are parking, garage facilities, accommodation, and restaurant facilities.

Over the last decade business opportunities in India has intensified and elevated room rates occupancy levels in India. 'Hotel Industry in INDIA' success story is only second to china in Asia pacific. The world travel and tourism council, says that India ranks 18th in business travel and will be among the top 5 very soon. India's big success stores includes the new model for development and growth; a model that is uniquely made.

Indian hotel industry's room rates are mostly likely to rise 25% annually and occupancy to rise by 80%, over the next two years. 'Hotel industry in India is gaining its competitiveness as a cost effective destination.

In many areas hotels are important attractions for visitors who bring with them spending power that the locals and who tend to spend at a higher rate than they do when they are at home. Through spending by visitors hotels thus often contribute significantly to local economies both directly and indirectly through the subsequent diffusion of the visitor expenditure to the Govt. offers and to other recipients in the community.

In areas receiving foreign visitors, hotels are often important foreign currency earners and in this way may contribute significantly to their countries' balance of payments. In countries with limited export possibilities, hotels may be one of the few prime sources of foreign currency earnings.

Hotels are an important source of amenities for local residents. Their restaurants, bars and other facilities often attract many local customers and many hotels have become social centres of their communities.

Hotels are also important outlets for the products of other industries. In the building and modernization of hotels, business is provided for the construction industry and related trades. Equipment, furniture and furnishings are supplied to hotels by a wide range of manufacturers.

INR (\$1.7 Billion) in 2019 and average annual revenue/room was ~\$12,400 per annum.

- Post COVID, revenues will decline by ~48% in 2020 YOY but the market will also see a sharp recovery in 2021 and 2022 led by domestic leisure tourism.

- The share of organized sector is expected to increase from ~5% in 2019 to ~8% in 2025 on account of growing pipeline from bigger brands and inventory reduction in unbranded hotels due to COVID.

Profitable Business of Cocoa Processing Unit Cocoa Butter, Cocoa Couverture and Cocoa Powder (Further Processed Products: Spreads and Chocolate Syrups)

Cocoa processing is the process of turning cocoa beans into chocolate, cocoa powder, and other related goods like cocoa butter, cocoa liquor, and so on. The Cocoa Processing Unit is one of the three main components of the cocoa processing industry (CPU). Cocoa Butter & Powder, which account for the majority of the entire CPU market, and Cocoa Liquor and Others, which are developing segments, have also been classified into the Cocoa Processing Unit (CPU) market.

The cocoa tree has massive, long leaves with pale-colored blooms that produce big pods. The tree bears fruit in its third year and continues to give fruit until it is twenty years old.

Increased manufacturing of confectionery syrup and chocolates will drive the worldwide cocoa products market. Increasing disposable income, improved retail distribution channels, increased availability of foreign brands, and the use of cocoa in snack food categories such as sweet biscuits and others are all likely to contribute considerably to market expansion. The demand for cocoa in scrubs, ointments, creams, facial masks, toners, and lotions is expected to remain strong.

PROJECT COST ESTIMATE

CAPACITY:	
<i>Cocoa Liquor</i>	: 2,000 Kgs Per Day
<i>Cocoa Butter</i>	: 974.4 Kgs Per Day
<i>Cocoa Powder</i>	: 512.8 Kgs Per Day
<i>Chocolate Spread</i>	: 530.2 Kgs Per Day
<i>Chocolate Syrup</i>	: 2,263.9 Kgs Per Day

SUBSCRIPTION RATE FOR INDIA—Single Copy ₹ 20/- , One Year ₹ 720/- (with Registered Post Charges)

OWNER, PUBLISHER, PRINTER & EDITOR : AJAY KUMAR GUPTA Printed at M/s. Balaji Offset Printers, 315/21, Daya Basti, Delhi 110 035 PUBLISHED AT : 106 E, Kamla Nagar, Delhi-110 007 (India).

R.N.I. NO. 61509/95 POSTAL NO. DL (N)/114/2021-2023

U.NO. U(DN) 154/2021-2022 LICENSED TO POST WITHOUT PREPAYMENT AT DELHI R.M.S.

DATE OF PUBLICATION : 19 EVERY MONTH—DATE OF POSTING : 21 OR 22 EVERY MONTH