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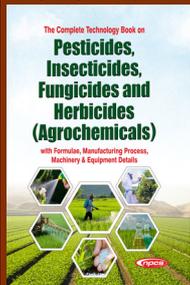
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About Us

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.

The Complete Technology Book on Pesticides, Insecticides, Fungicides and Herbicides (Agrochemicals) with Formulae, Manufacturing Process, Machinery & Equipment Details

₹ 1,875/- US\$ 150-



Agrochemicals are chemical agents that are applied to fields to boost the nutrient content of the soil or crops. Herbicides, fungicides, and insecticides are among them, as are synthetic fertilizers, hormones, and soil conditioners. They boost agricultural growth by eradicating pests that wreak havoc. They are used in horticulture, dairy farming, poultry farming, crop shifting, commercial planting, and other farming industries.

- A pesticide is any substance that is used to kill, repel, or control pests in plants or animals.

- Insecticides are chemicals that are used to keep insects under control by killing them or stopping them from engaging in undesired or damaging behaviour. Their structure and mode of action are used to classify them.

- Fungicides are pesticides that kill or prevent fungus and their spores from growing. They can be used to manage plant-damaging fungi such as rusts, mildews, and blights. They could also be used to keep moulds and mildew at bay in other places.

- Herbicides are chemicals that are used to control or manage unwanted vegetation. Herbicides are most commonly used in row-crop farming, where they are treated before or during planting to increase crop productivity while reducing other vegetation.

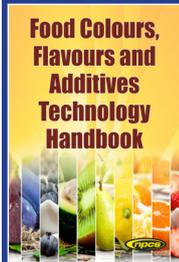
The global agrochemicals market estimated size is CAGR of 3.4%. Increasing demand for food supply due to the rapid growth in the human population has triggered agricultural intensification. Agrochemicals are widely employed in agriculture to meet rising food demands, bridging the gap between food supply and consumption. Concurrently imbalanced use of agrochemicals, on the other hand, degrades the environment and poses serious threats to aquatic and terrestrial ecosystems. Chemical agents used in agricultural lands to increase nutrient shortage in the field or crop are known as agrochemicals. They also help to boost crop development by destroying hazardous insects. Agrochemicals increase the quantity and quality of agricultural goods. These are utilized in horticulture, dairy farming, cattle, grain farming, shifting cultivation, commercial plantation, and many other agricultural fields.

The book covers a wide range of topics connected to Pesticides, Insecticides, Fungicides and Herbicides, as well as their manufacturing processes. It also includes contact information for machinery suppliers, as well as images of equipments.

A complete guide on Agrochemical Products manufacture and entrepreneurship. This book serves as a one-stop shop for everything you need to know about the Pesticides, Insecticides, Fungicides and Herbicides manufacturing industry, which is ripe with opportunity for manufacturers, merchants, and entrepreneurs. This is the only book that covers Agrochemical in depth. From concept through equipment procurement, it is a veritable feast of how-to information.

Food Colours, Flavours and Additives Technology Handbook

₹ 1,895/- US\$ 150-



Food colours are additives that can be natural or artificial. Natural colours are obtained from fruits, vegetables, plants and minerals. Artificial food colours are made from coal tar dyes or petroleum byproducts. Food flavours are another type of additive that can be natural or artificial. Natural flavours come from herbs, spices and fruits while artificial flavours come from chemicals which have been artificially created to replicate natural flavours. Finally, additives are substances used in food processing as well as any substance added to foods either directly or indirectly for preservation, processing or improving their flavour. These substances may include nutrients like vitamins and mineral salts; biological controls such as yeasts; preservatives such as sulfur dioxide; antioxidants; emulsifiers; acidulants; anticaking agents and thickeners like guar gum; carrier solvents such as propylene glycol alginate, a thickener derived from seaweed. Carriers also function as stabilizers, preventing oils from separating out and appearing on top of a product. - substances that help other substances mix together smoothly -include

carrier solvents such as propylene glycol alginate, a thickener derived from seaweed. Carriers also function as stabilizers, preventing oils from separating out and appearing on top of a product.

The beverage segment is anticipated to be the largest in the food flavors market. Due to rising discretionary budgets among consumers, various synthetic flavors, including chocolate fruit and floral flavors, are growing in popularity in developing economies in Asia Pacific and the Middle East. The dairy, confectionery, and bread sectors are anticipated to increase significantly. The global market for food colours, flavours, and additives has been growing steadily over recent years. The food colors market is expected to reach a market valuation of US\$ 2.6 Bn, accelerating with a CAGR of 7.3%. Bakery, Cereal, and Snacks accounted for 18% of sales by volume in the food colors market. The global food colors market is driven by the highly growing demand for innovative, unique-looking food dishes, and altering taste and food appeal preferences due to the rise of social media among the populations worldwide. An increase in consumer awareness for clean-label food products and the additional health benefits that certain natural food colors possess is estimated to drive the market for food colors. The use of food additives has increased in recent years. This is because consumers are increasingly looking for foods that are healthier and more convenient. Food additives can help to improve the nutritional value of food and make it more appetizing. High demand for new flavors from the food & beverages industry and continuous innovation drive the growth of the market. In addition, increase in requirement from the fast food industry is expected to provide growth opportunities in the food flavors market.

The food color industry has been booming for a while now as people are more conscious about what they put into their bodies. With so many flavors to choose from for different dishes, it's just not enough anymore to make food taste good - it also has to look good. That's where food color comes in. Not only does it make your food look more appetizing, but it also makes your cooking more fun!

The book covers a wide range of topics connected to Food Colours, Flavours and Additives, as well as their manufacturing processes. It also includes contact information for machinery suppliers, as well as images of equipment and plant layout.

A comprehensive reference to manufacturing and entrepreneurship in the Food Colours, Flavours and Additives products business. This book is a one-stop shop for everything you need to know about the Food Colours, Flavours and Additives products manufacturing industry, which is ripe with potential for manufacturers, merchants, and entrepreneurs. This is the only comprehensive guide to commercial Food Colours, Flavours and Additives products manufacture. It provides a feast of how-to knowledge, from concept through equipment purchase.

A Business Plan for Wire Nails

Wire nails are a type of fastener typically used for construction and carpentry projects. These nails are made from steel wire that is hardened and cut into various sizes. Nails can also be made from other metals such as brass or aluminium. Wire nails are used in many industries, from furniture making to automotive.

Benefits and Applications

Wire nails have a wide variety of applications. They are commonly used in carpentry projects, including framing, sheathing, trim work, flooring, cabinetry, and more. They are also ideal for securing decking materials and can be used to attach shingles, siding, and roofing materials. In

PROJECT COST ESTIMATE

CAPACITY	
Wire Nails	: 48,000 MT Per Annum
Plant & Machinery	: 18 Crores
Cost of Project	: ₹ 26 Crores
Rate of Return	: 27.14%
Break Even Point	: 64.82%

addition to these uses, wire nails can also be used for industrial applications such as attaching lintels and reinforcing steel beams.

Scope for Startups in the Wire Nails Industry

The wire nails industry is an attractive option for aspiring entrepreneurs looking to break into the manufacturing sector. With the glob-

al demand for wire nails expected to remain strong, there are several opportunities for startups in the sector. Firstly, there is the potential for developing innovative products and technologies within the wire nails industry. For example, new types of wire nails can be designed to meet different requirements of customers or to be used in specific applications.

Indian Market Outlook

The Indian wire nail industry is one of the fastest-growing sectors in India. The market for wire nails in India is estimated to be worth Rs 4000 crores and is projected to grow at a CAGR of more than 8%.

Global Market Outlook

The global market for wire nails

is growing rapidly, with the estimated value of the industry increasing by over \$5 billion in 2020. The increasing demand for wire nails has been driven by a range of factors, including rising home renovation and construction activities as well as the booming e-commerce sector.

Conclusion

Wire nails have been around for centuries, but the business of manufacturing and selling them has recently seen a dramatic boom. This is due in part to the increase in demand for construction projects and home improvement projects. With the current popularity of wire nails, it is clear that this business is here to stay and will continue to be a booming industry.

Manufacturing Business of Yeast from Molasses

Yeast from molasses is a unique form of yeast that is derived from molasses, a by-product of the sugar production process. It is a type of single-celled fungi and is usually used as an ingredient in baking, brewing, and distilling. The yeast is a living organism that grows rapidly when exposed to sugar, releasing carbon dioxide gas which helps dough rise and ferment alcohol in beer, wine, and spirits. It has been used for centuries to add flavour and texture to food, as well as in the production of alcoholic beverages.

Benefits of Yeast from Molasses

Molasses is a syrup that can be found in the production of sugar cane and is a great source of yeast. The main benefit of using yeast from molasses is that it is much more cost-effective than traditional store-bought yeast. Additionally, it also provides businesses with a more consistent quality of yeast.

Another advantage of using yeast from molasses is that it is far less likely to contain any harmful toxins or bacteria than store-bought yeast. Since it is naturally produced, molasses yeast can be stored at room temperature, making it easy to transport and store.

Global Market Outlook

The global yeast market size is es-

timated to be valued at USD 3.9 billion in 2020 and is projected to reach USD 6.1 billion by 2025, recording a CAGR of 9.6%. Market in Asia Pacific is expected to register the fastest revenue growth rate over the forecast period owing to rising demand for yeast in developing countries, particularly in

PROJECT COST ESTIMATE

CAPACITY:	
Cream Yeast	: 3,600 MT Per Annum
Powder Yeast	: 1,500 MT Per Annum
Plant & Machinery	: ₹ 1 Crore
Cost of Project	: ₹ 29 Crores
Rate of Return	: 25 %
Break Even Point	: 46 %

India, China, Malaysia, and Indonesia.

Conclusion

Yeast from molasses is a great alternative to traditional yeast for entrepreneurs who want to take advantage of its many benefits. This type of yeast is easy to use, affordable, and produces a unique flavour that can make your products stand out in the market. With so many benefits, it's no surprise that entrepreneurs are increasingly turning to yeast from molasses for their business needs. Whether you're looking for a unique flavour or just an economical alternative to traditional yeast, yeast from molasses is worth considering.

Start-up Production of Aluminium Ingots from Aluminium Scrap

Aluminium ingots from aluminium scrap are metal products that are manufactured from recycled aluminium scrap material. The recycled material is melted and then poured into moulds to form aluminium ingots.

Aluminium ingots have a wide range of uses, but most commonly they are used in the manufacturing of parts and products that require high levels of strength and durability. The process of recycling aluminium scrap into aluminium ingots has become increasingly popular in recent years due to its environmental benefits. In addition, recycling aluminium helps reduce the demand for new aluminium and prevents unnecessary mining of resources.

Uses and Applications of Aluminium Ingots from Aluminium Scrap

Aluminium ingots are used in a variety of industries, including aerospace, automotive, electrical and chemical. In the aerospace industry, aluminium is often used to create components such as wings and fuselage parts. The material's low weight and high strength make

PROJECT COST ESTIMATE

CAPACITY:	
Aluminium Alloy Ingots	: 6,000 MT Per Annum
Aluminium Scrap	: 99 MT Per Annum
Plant & Machinery	: ₹ 5 Crores
Cost of Project	: ₹ 11 Crores
Rate of Return	: 28 %
Break Even Point	: 54 %

it ideal for applications where weight is a concern.

Global Market Outlook

The global aluminium ingots market is expected to grow at a CAGR of 8% from 2022-2030. Automotive, aerospace & defence, and shipping were the major application areas in the global market.

Conclusion

Aluminium ingots from aluminium scrap is a booming business that provides a cost-effective, environmentally friendly alternative to purchasing aluminium in its raw form. The process of producing aluminium ingots from aluminium scrap is relatively simple and requires minimal energy expenditure. It is important to be aware of the benefits of using aluminium ingots in order to capitalize on this growing industry.

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

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Setup Plant of Potato Chips and Extruded Snack Food (Kurkure Type)

Potato Chips and Extruded Snack Food (Kurkure Type) are popular, crunchy snacks made from potatoes. Potato chips are thin slices of potatoes that have been fried in oil or baked, while snacks are extruded (Kurkure type) or puffed snacks that are flavoured with spices and sometimes even masalas. Potato chips and Kurkure are loved by many. Extruded Snack Food (Kurkure Type) come in a wide range of flavours such as spicy chili, chat masala, and tomato. These snacks can also be combined with nuts, dried fruits, and other ingredients to create interesting and unique flavours.

Benefit of starting Potato Chips and Extruded Snack Food (Kurkure Type) Business

Starting a business in Potato

Chips and Extruded Snack Food (Kurkure Type) has several benefits. These snacks are highly popular and sought-after, making them ideal for entrepreneurs looking to capitalize on the market demand.

Indian Market Outlook

The Indian market for potato chips and extruded snacks (Kurkure type) is expanding rapidly. According to the International Trade Administration, India's snack market is currently estimated at US\$ 6.1 billion and is forecast to reach US\$ 11.2 billion by 2021. India Extruded Snacks Market Outlook, 2027-28 the market is anticipated to grow at more than 9% CAGR for 2022-2028. The Indian snacks industry is the most

PROJECT COST ESTIMATE

CAPACITY:

Potato Chips	: 150,000 Kgs Per Annum
Kurkure Type Snacks	: 150,000 Kgs Per Annum
Plant & Machinery	: ₹ 43 Lakhs
Cost of Project	: ₹ 121 Lakhs
Rate of Return	: 30 %
Break Even Point	: 71 %

promising and booming segment of the FMCG category. Consumers always prefer healthier and more flavourful options in the food market.

Global Market Outlook

The global potato chips market size reached a value of USD 33.45 billion in 2022. The market is expected to further grow in the forecast period of 2023-2028 at a CAGR of 2.90% to reach a value of USD 39.71 billion

by 2028. The global extruded snacks market size was valued at USD 50.37 billion in 2021. The market is projected to grow from USD 53.20 billion in 2022 to USD 77.72 billion by 2029, exhibiting a CAGR of 5.57% during the forecast period. Extruded products are becoming very popular among consumers due to their flavourful taste profiles and interesting shapes.

Conclusion

There are many benefits to starting a business in Potato Chips and Extruded Snack Food (Kurkure Type). Not only do these snacks provide convenience and affordability, but they also offer entrepreneurs the chance to create unique flavours and capitalize on the strong growth in these markets.

A Business Plan for Latex Mattress

Latex mattresses are composed of natural or synthetic latex. Natural latex is derived from rubber tree sap, while synthetic latex is made from a combination of petroleum and other ingredients. Latex mattresses are known for their durable construction and ability to support the body's pressure

points, making them an ideal option for those who want a comfortable sleeping surface that won't wear out quickly. Latex mattresses offer superior breathability, as they contain millions of tiny holes that allow air to flow through the mattress and keep it cool. Additionally, they are antimicrobial and resistant to dust mites and other allergens, making them a popular choice for those with allergies or asthma.

Uses and Application of Latex Mattresses

Latex mattresses can be used in a variety of applications. They are popular for people with allergies or asthma, as the hypoallergenic nature of the material helps reduce allergens in the home. Latex mattresses are often used in the medical field. Hospital beds often feature latex mattresses, as they provide

PROJECT COST ESTIMATE CAPACITY

Latex Mattress Size: 38" x 75" (33Kg)	: 9,091 Nos. Per Annum
Plant & Machinery	: ₹ 77 Lakhs
Cost of Project	: ₹ 195 Lakhs
Rate of Return	: 31 %
Break Even Point	: 75 %

superior support and comfort while still allowing for easy cleaning and sanitization. Latex mattresses can also be used to treat pressure sores because they conform to the body and help evenly distribute weight, reducing stress on areas prone to sores.

Global Market Outlook

The global latex mattress market is expected to reach US\$ 20 Billion by 2032, growing at a CAGR of 7% during the forecast period 2022-2032.

Conclusion

Latex mattresses are relatively new to the market, entrepreneurs have an opportunity to gain a competitive edge over established mattress companies. With a solid business plan and the right resources, entrepreneurs can quickly establish themselves in the latex mattress business and start to enjoy the rewards.

Start-up Production of Cold Pressed Rice Bran Oil (Edible Oil)

Cold Pressed Rice Bran Oil (Edible Oil) is a type of cooking oil that is produced by cold pressing the husk of rice. Cold-pressing is a method of extracting oil from seeds or grains without the use of heat or chemical solvents. It's an efficient, clean and safe way to obtain oil without sacrificing any of its nutritional qualities.

Benefits of Cold Pressed Rice Bran Oil (Edible Oil)

Cold pressed rice bran oil is an edible oil made from the outer husk of the rice grain. It is known for its high antioxidant content and health-promoting properties.

Rice bran oil is packed with healthy monounsaturated fatty acids, vitamin E, B-vitamins, and other beneficial compounds.

Global Market Outlook

The global rice bran oil market size was USD 6.16 billion in 2020. The market is projected to grow from USD 6.67 billion in 2021 to USD 12.27 billion by 2028 at a CAGR of 9.09% during the 2021-2028 period.

Conclusion

Cold pressed rice bran oil is one of the fastest growing industries in the health and wellness space, with people realizing its numerous health benefits. This is a great opportunity for entrepreneurs who are looking to start their own business.

PROJECT COST ESTIMATE CAPACITY

Cold Pressed Rice Bran Oil (Edible Oil)	: 270,000 Ltrs Per Annum
Plant & Machinery	: ₹ 20 Lakhs
Cost of Project	: ₹ 161 Lakhs
Rate of Return	: 28 %
Break Even Point	: 51 %

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Setup Cashew Nut Processing Plant

Cashew nut processing is the process of transforming raw cashew nuts into products ready for consumption, such as roasted and salted cashews. It involves several steps including sorting, shelling, roasting, and packing. This type of processing is a crucial part of the food production chain, as it ensures that the final product is safe to eat and of the highest quality.

Scope for Start-ups in the Cashew Nut Processing Industry

The cashew nut processing industry provides a range of business opportunities for entrepreneurs and startups. With the rising global demand for cashew nuts, the industry has seen rapid growth in recent years. Cashew nut processing involves the harvesting, cleaning, sorting, shelling, grading, and packaging of raw cashew nuts. It also includes the roasting, grinding, and salting of cashew nuts to make cashew butter and other products.

PROJECT COST ESTIMATE CAPACITY

Cashew Nut Processing	: 4,794 Kgs Per Day
Plant & Machinery	: ₹ 6 Crore
Cost of Project	: ₹ 11 Crores
Rate of Return	: 23 %
Break Even Point	: 76 %

Indian Market Outlook

India processed cashew market is projected to register a CAGR of 9.33% during the forecast period (2020-2025). Plain/salted cashews can be consumed in several ways under food/beverage applications on a household basis, which is driving the market for plain/salted cashews across the country. Increased applications of plain cashew in Indian culinary, especially in desserts, is one of the key factors driving the market.

Global Market Outlook

The global processed cashew market size was valued at US\$ 5,003.6 Mn in 2022 and is expected to grow at a compound annual growth rate (CAGR) of 5.8% from 2022 to 2032.

Summary

Cashew nut processing is a profitable and sustainable industry, with a growing demand for the nut around the world. With the right knowledge and resources, starting a cashew nut processing business can be a rewarding endeavor.

Start Carbon Black N990 Manufacturing Business

Carbon Black N990 is a highly versatile and durable form of carbon black, which has been specially formulated to meet the needs of industrial and commercial applications. It is a black powder made from highly purified coal and other materials, such as petroleum oils, sulphur, and clay. It is used for many different products, from rubber and plastics to paints and coatings. It can also be used in various manufacturing processes, such as in the production of carbon fiber, catalysts, rubber additives, and even car tires.

Uses and Application

Carbon Black N990 has a number of unique properties that make it ideal for various uses and applications. One of the most common applications of Carbon Black N990 is its use in rubber manufacturing. The powder can be added to rubber compounds to increase the strength and durability of the finished

PROJECT COST ESTIMATE

CAPACITY

Carbon Black (N990)	: 8,000 MT Per Annum
Plant & Machinery	: ₹ 49 Crores
Cost of Project	: ₹ 62 Crores
Rate of Return	: 18 %
Break Even Point	: 63 %

product. This makes Carbon Black N990 ideal for use in tires, conveyor belts, and other products that need to be strong and resistant to wear.

Global Market Outlook

The global carbon black market size was estimated at USD 18.2 billion in 2019 and is projected to

expand at a compound annual growth rate (CAGR) of 6.1% from 2020 to 2025. Carbon Black is formed by incomplete combustion of different petroleum-based constituents. Carbon black is an essential component for a range of end-use applications such as consumer goods, automobiles, appliances, electronics, and others.

Conclusion

Starting a business that uses Carbon Black N990 is an ideal opportunity for entrepreneurs. Not only does this material offer superior performance in many applications, but it also offers a variety of benefits to entrepreneurs.

Start a Business of Zeolite 4a (Detergent Grade)

Zeolite 4A is a type of zeolite mineral that is commonly used in detergents and other cleaning products. It is an aluminosilicate material with a high cation exchange capacity. It acts as an absorbent, trapping and binding molecules such as metals and other cations. Zeolite 4A is effective in removing dirt, stains, odours, and other impurities from fabrics, surfaces, and even water. It is also known to reduce the need for bleaching and can even replace some of the chemical ingredients found in detergents. Zeolite 4A is an economical and non-toxic alternative to harsh chemicals, making it an ideal choice for cleaning products.

PROJECT COST ESTIMATE

CAPACITY

Zeolite 4a (Detergent Grade)	: 3,000 MT Per Annum
Plant & Machinery	: ₹ 154 Lakhs
Cost of Project	: ₹ 688 Lakhs
Rate of Return	: 27 %
Break Even Point	: 55 %

Uses of zeolites 4a

Zeolite 4A is a detergent grade zeolite and is used in laundry detergents, cleaning products, and other household cleaning products. Zeolite 4A helps to reduce the amount of soap needed to clean clothes and other items, as well as to improve the overall cleaning performance.

Benefit to start-up a Zeolite 4a (Detergent Grade) business

Starting a Zeolite 4a (Detergent

Grade) business can be highly beneficial, both financially and from an environmental perspective. Zeolite 4a is a versatile and cost-effective absorbent material with a wide range of applications. It is used as a soil conditioner, fertilizer, water filter, detergent additive, and many other uses.

Global Market Outlook

The global zeolite market is expected to grow at a CAGR of 8.5% during the forecast period 2020-2027. This growth is mainly due to increasing industrialization and rising environmental concerns regarding wastewater treatment.

Conclusion

Starting a Zeolite 4A (Detergent Grade) business can be a great opportunity for entrepreneurs who are looking to get into this industry.

PVC Wire & Cables

P.V.C. coated cable and wire are extensively used in all electrical linings, domestic lightings and all other purposes. The demand for PVC coating electrical wires (with rapid electrification all over the country) is increasing at a rapid rate. Considering recent export market and increase in demand from Russia and other countries, it is estimated that the export demand will remain 25 % of total demand. The present demand supply gap is 36.3 thousand Km. According to 70% of capacity utilisation, it may required additional capacity of 52 thousand Km. It indicates very good scope for new investment in power cable industry. There is a bright scope for starting new units in this field.

PROJECT COST ESTIMATE

CAPACITY

Plant Capacity	: 1600 Mtrs/ Day
Plant & Machinery	: ₹ 23 Lakhs
W. C. for 3 Months	: ₹ 86 Lakhs
Total Capital Investment	: ₹ 162 Lakhs
Rate of Return	: 26%
Break Even Point	: 60%

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A Business Plan for Glass Fiber Reinforced Polymer (GFRP) Rebar

Glass fiber reinforced polymer (GFRP) rebar is a type of composite rebar made from high-strength glass fibers embedded in a resin matrix. It is a relatively new product that has been developed for use in the construction industry as a substitute for steel rebar. GFRP rebar has several advantages over traditional steel rebar, including greater corrosion resistance and a lower cost.

Scope of Start-up in Glass fiber reinforced polymer rebar Manufacturing Industry

The scope for start-up in Glass Fiber Reinforced Polymer (GFRP) rebar manufacturing industry is immense, as the global construction industry is projected to expand at a rapid pace in the years to come. GFRP rebar is gaining popularity as a replacement for traditional steel reinforcement due to its superior corrosion resistance, lightweight, and lower cost. The advantages of using GFRP rebar can help in cutting down the costs of construction, making it attractive for contractors to switch to GFRP rebar over steel.

Uses and Application

Glass fiber reinforced polymer rebar (GFRP) is a type of reinforcing bar used in the construction industry. This material is composed of glass fibers,

PROJECT COST ESTIMATE CAPACITY

Glass Fibre Reinforced Polymer (GFRP) Bar (Size 8mm to 36 mm)	: 360,000 MT Per Annum
Plant & Machinery	: ₹ 6 Crore
Cost of Project	: ₹ 61 Crores
Rate of Return	: 34 %
Break Even Point	: 51 %

epoxy resin, and other additives.

Global Market Outlook

Glass fiber reinforced polymer (GFRP) is widely used in the construction industry for non-structural elements, such as facade, panels, piping, and channels. The Asia-Pacific region has become an attractive market for the investors, owing to the presence of a number of emerging economies, such as India, China, Indonesia, Vietnam, and others in the region.

Conclusion

The scope of starting a GFRP rebar manufacturing business is excellent and provides a great opportunity for entrepreneurs to capitalize on the increasing demand of green building materials. With the right knowledge and resources, one can reap the benefits of this growing market in no time.

Setup Plant of Particle Board from Rice Husk

Particle board, also known as chipboard, is a wood-based material composed of wood particles and fibers that are bound together with resin and compressed into a sheet. It is a cost-effective building material commonly used for furniture, shelving, flooring, and wall paneling. Particle board from rice husk is a type of particle board made from waste husk from rice production.

Uses and Applications

Particle board from rice husk is an eco-friendly product that is used in various industries and applications. It is a composite material made from the by-products of processed rice husks, and it has a variety of uses, ranging from furniture and interior decorating to construction and insulation materials.

Benefit of Starting This Business

Particle board made from rice husk is a great option for businesses that are looking to create high-quality and sustainable building materials. The product has several advantages over traditional building materials such as wood or plastic, including being more lightweight and cost-effective.

Indian Market Outlook

This booming industry has opened up a great opportunity for entrepreneurs in India to enter into this business. It is easy to set up and requires minimal capital investment. With growing awareness about the environment, there is a great potential for growth in the coming years.

PROJECT COST ESTIMATE CAPACITY

Particle Board (Size 4ft x 8ft x 16 inch.)	: 150,000 Nos. Per Annum
Plant & Machinery	: ₹ 2 Crore
Cost of Project	: ₹ 11 Crores
Rate of Return	: 30 %
Break Even Point	: 70 %

Global Market Outlook

Particle board made from rice husk has been rapidly gaining traction around the world due to its many advantages. This market is expected to grow at a CAGR of 8.2% during 2020-2026, driven by factors such as increasing environmental concerns and the need to replace traditional wood and other forms of particleboard with a more sustainable alternative.

Conclusion

Particle board from rice husk is a versatile material that can be used in a wide range of industries and applications. Its eco-friendly nature makes it even more desirable. With so many potential uses and applications, it's no wonder why this business is booming.

Hydroponic Green House Farming

Hydroponics is a system of agriculture that utilizes nutrient-laden water rather than soil for plant nourishment. The re-use of nutrient water supplies makes process-induced eutrophication (excessive plant growth due to overabundant nutrients) and general pollution of land and water unlikely, since runoff in weather-independent facilities is not a concern. Aeroponic and hydroponic systems do not require pesticides, require less water and space than traditional agricultural systems, and may be stacked (if outfitted with led lighting) in order to limit space use (vertical farming). This makes them optimal for use in cities, where space is particularly limited and populations are high-self-sustaining city-based food systems mean a reduced strain on

PROJECT COST ESTIMATE

CAPACITY:	
Tomatoes	: 800 MT/Annum
Peas	: 36 MT/Annum
Cucumber	: 56 MT/Annum
Beans	: 80 MT/Annum
Plant & Machinery	: ₹ 23 Lakhs
Cost of Project	: ₹ 489 Lakhs

distant farms, the reduction of habitat intrusions, fewer food miles, and fewer carbon emissions.

Boosted by rising consumer demand owing to better health awareness and purchasing power, production of fruits and vegetables across India has

increased this year with their total yield surpassing the production of food grains. India is also a prominent exporter of Fresh Vegetables in the world. The country has exported 6,99,600.34 MT of Fresh Vegetables other than Onion to the world for the worth of Rs. 2119.50 crores during the year 2015-16. India grows the largest number of vegetables from temperate to humid tropics and from sea-level to snowline. Thus, as an entrepreneur this project offers an exciting opportunity to you.

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Start Lithium Ion Battery (Battery Assembly) Manufacturing Plant

Lithium ion battery (Battery Assembly) is a rechargeable battery that is typically used in portable electronic devices such as cell phones, laptops, and tablets. Lithium ion batteries have become increasingly popular due to their high energy density, long life cycle, and low self-discharge rate.

Opportunity for Lithium Ion Battery Start-ups

The increasing demand for energy storage solutions in the industrial, automotive, and consumer sectors have made lithium ion batteries a promising business opportunity.

Indian Market Outlook

The India lithium-ion Battery Market was valued at US\$ 1.91 Bn. in 2021 and is estimated to reach a value of US\$ 5.2

PROJECT COST ESTIMATE

CAPACITY:	
48 Volt, 60 AH Lithium-Ion Battery Pack	: 500 Nos. Per Annum
48 Volt, 80 AH Lithium-Ion Battery Pack	: 400 Nos. Per Annum
48 Volt, 100 AH Lithium-Ion Battery Pack	: 400 Nos. Per Annum
60 Volt, 20 AH Lithium-Ion Battery Pack	: 400 Nos. Per Annum
60 Volt, 30 AH Lithium-Ion Battery Pack	: 400 Nos. Per Annum
72 Volt, 20 AH Lithium-Ion Battery Pack	: 400 Nos. Per Annum
72 Volt, 40 AH Lithium-Ion Battery Pack	: 400 Nos. Per Annum
12.8 Volt, 8 AH Lithium-Ion Battery Pack	: 400 Nos. Per Annum
12.8 Volt, 12 AH Lithium-Ion Battery Pack	: 400 Nos. Per Annum
12.8 Volt, 20 AH Lithium-Ion Battery Pack	: 400 Nos. Per Annum
12.8 Volt, 30 AH Lithium-Ion Battery Pack	: 400 Nos. Per Annum
Plant & Machinery	: ₹ 86 Lakhs
Cost of Project	: ₹ 516 Lakhs
Rate of Return	: 27.04 %
Break Even Point	: 59.98 %

Bn. in 2029. The Global India lithium-ion Battery Market size is estimated to grow at a CAGR of 15.3% over the forecast period.

Global Market Outlook

The global lithium-ion battery market size was valued at USD 41.97 billion in 2021 and is expected to expand at a compound annual growth rate (CAGR) of 18.1% from 2022 to 2030.

Conclusion

The lithium ion battery (Battery Assembly) industry is an ever-evolving one that offers exciting opportunities for Startups and established companies alike. With advances in technology and manufacturing, these batteries are becoming increasingly popular as an energy source. They offer an efficient and cost-effective way to store and use energy, making them a great option for many applications. Overall the lithium ion battery industry has a bright future.

How to Setup Plastic Waste Recycling Plant

A Plastic Waste Recycling Plant (sometimes called a Plastic Recovery Facility) is an industrial facility that recycles and reuses plastic waste. Some companies are even capable of recycling some types of plastic into new resin pellets. If you're looking

to start a business, there's never been a better time to get involved in plastic recycling in some way. More details on how to do so can be found further down.

Benefits of Recycling Plastics

Plastic recycling has a number of benefits, including energy savings and lower greenhouse gas emissions. It also contributes to the conservation of nonrenewable resources such as oil and gas. Furthermore, whether through legal or informal economic activity, recycling provides a source of income for millions of people and families in disadvantaged countries.

Despite the fact that plastics consumption is fast increasing in developing nations, particularly

due to increased demand for plastics from Asia, developing country plastic consumption per capita is significantly lower than in developed countries. Recycling, on the other hand, has a far greater use in developing countries for a variety of reasons:

PROJECT COST ESTIMATE

CAPACITY:	
Recycled PP Granules	: 1,250 Kgs Per Day
Recycled LDPE Granules	: 1,250 Kgs Per Day
Recycled HDPE Granules	: 1,250 Kgs Per Day
Recycled Derlin Granules	: 1,250 Kgs Per Day
Plant & Machinery	: ₹ 132 Lakhs
Cost of Project	: ₹ 401 Lakhs
Rate of Return	: 28%
Break Even Point	: 60%

Despite increased global competition brought on by lower customs rates, India's sector has risen at a rate of over 11% per year, compared to global growth of 3 to 4%. Growth has slowed to a more secular pattern in recent years. Between 2002 and 2007, output increased at a 5.5 percent annual rate, whereas consumption increased at a 5.6 percent annual rate. In 2007-08, the industry saw a slight decrease in output.

Bamboo Toothbrush

The toothbrush is an oral hygiene instrument used to clean the teeth, gums, and tongue. It consists of a head of tightly clustered bristle, atop of which toothpaste can be applied, mounted on a handle which facilitates the cleaning of hard-to-reach areas of the mouth. They are usually used alongside floss.

They are available with different bristle textures, sizes, and forms. Most dentists recommend using a soft toothbrush since hard-bristled toothbrushes can damage tooth enamel and irritate the gums.

Because many common and effective ingredients in toothpaste are harmful if swallowed in large doses and instead should be spat out, the act of brushing teeth is most often done at a sink within the kitchen or bathroom, where the brush may be rinsed off afterwards to remove any debris remaining and then dried to reduce conditions ideal for germ growth (and, if it is a wooden toothbrush, mold as well).

The organic bamboo toothbrush comprises a natural bamboo handle and fine bristles that make for clean teeth and a healthy mouth. You can be sure there's no chemical coming in contact with your mouth, and the best part? It's 100% biodegradable.

The Global Bamboo Toothbrush Market is expected to register a CAGR of 7% to reach USD842.1 million by

PROJECT COST ESTIMATE

CAPACITY

Bamboo Toothbrush	: 3,000 Pcs / Day
Plant & Machinery	: ₹ 54 Lakhs
Cost of Project	: ₹ 183 Lakhs
Rate of Return	: 25%
Break Even Point	: 54%

2024. Bamboo toothbrushes are an eco-friendly alternative to plastic toothbrushes. Bamboo has several characteristics that make it an ideal substitute for plastic. It is cost-effective, has anti-microbial properties, can be grown in a wide variety of landscapes, and is easy to manipulate to make objects. Bamboo toothbrushes naturally ward off microbial growth and can be discarded without causing any harm to the environment.

With a large number of anti-plastic policies and stringent regulations implemented by various countries for the eco-friendly alternatives for plastic goods are expected to increase awareness among consumers over the next few years. Plastic toothbrushes produced around the world directly go to landfills and a very small part is recycled, which creates plastic pollution. These factors are anticipated to promote the application of bamboo toothbrush as alternatives among the buyers over the next few years. Entrepreneurs who invest in this project will be successful.

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A Business Plan for Glass Sheet

Glass sheet is a type of glass that has been processed into flat, uniform pieces. It is commonly used in construction, interior design, and packaging applications. Glass sheet comes in various thicknesses and sizes, and can be customized to fit the needs of any project. Glass sheet is made by first melting sand and other raw materials in a furnace at extremely high temperatures. Once melted, the liquid glass is poured into moulds and then allowed to cool. After cooling, the glass is cut into sheet forms and polished for desired texture and clarity.

Advantages of Starting Glass Sheet Business

- 1. Cost-Effective:** The cost of raw materials for manufacturing glass sheets is relatively low, making it a cost-effective business venture.
- 2. Potential for High Profits:** There is potential for high profits from a glass sheet business, as the demand for glass sheets is expected to increase in the coming years.
- 3. Flexibility:** Running a glass sheet business allows for flexibility in production, as you can produce different types and sizes of glass sheets depending on customer demand.
- 4. Global Market:** The glass sheet industry is global, allowing you to access customers in multiple countries and expand your business overseas.

Indian Market Outlook

The India flat glass market size reached US\$ 3.1 Billion in 2021. Looking forward, IMARC Group expects the market to reach US\$ 4.5 Billion by 2027, exhibiting a growth rate (CAGR) of 6.62% during 2022-2027.

Global Market Outlook

The global flat glass market size was valued at USD 273.43 billion in 2021 and is expected to grow at a compound annual growth rate (CAGR) of 4.3% from 2022 to 2030.

PROJECT COST ESTIMATE

	CAPACITY
Glass Sheet	: 1,500,000 Sq.mt. Per Annum
Plant & Machinery	: ₹ 90 Crores
Cost of Project	: ₹ 129 Crores
Rate of Return	: 25 %
Break Even Point	: 45 %

Conclusion

The glass sheet business is booming for a variety of reasons, from the increased use of glass in construction to the rising popularity of glass sheet furniture. With the global market for glass sheets expected to grow and the growing demand for glass packaging, now is a great time to consider starting your own glass sheet business.

Setup Plant of Glass Sheet & Float Glass

Glass Sheet & Float Glass is a type of flat glass that is made by melting sand and soda ash, which is then cast onto molten tin. The glass is then formed into sheets and float-cooled on molten metal. Float glass has a smooth, uniform surface, and is used to make products such as windows, doors, mirrors, and table tops. Glass Sheet & Float Glass is a form of plate glass made from silica sand, soda ash, and limestone, which is then heated to extremely high temperatures and then cooled rapidly to create a flat glass surface.

Uses and Applications

Glass sheets and float glass are versatile materials that can be used in a variety of ways. They are commonly used for windows, doors, skylights, and other architectural features in homes and commercial buildings.

Scope for Startups in the Glass Sheet & Float Glass Industry

The glass sheet and float glass industry has seen significant growth in recent years, and this trend is expected to continue in the coming years. This creates an excellent opportunity for entrepreneurs to get involved in the glass sheet and float glass industry and take advantage of the growing

PROJECT COST ESTIMATE

	CAPACITY
Float Glass 8mm	: 1,500,000 Sq.mt. Per Annum
Sheet Glass 4mm	: 3,000,000 Sq.mt. Per Annum
Plant & Machinery	: ₹ 261 Crores
Cost of Project	: ₹ 346 Crores
Rate of Return	: 14 %
Break Even Point	: 43 %

demand.

Global Market Outlook

The global market size of glass sheet and float glass is estimated to reach \$9 billion by 2027, with an expected CAGR of 8.5% over the forecast period. The global market for glass sheets and float glass is booming.

Conclusion

There are plenty of opportunities for Startups to become involved in the glass sheet and float glass industry. With the right strategy, Startups can capitalize on the growing demand for these products and services and establish a strong presence in the industry.

Start Super Absorbent Polymer Manufacturing Plant

Super Absorbent Polymer (SAP) is a type of polymer that can absorb and retain large amounts of liquid. SAP is commonly used in consumer products such as diapers, feminine hygiene products, wound dressings, and agricultural applications. It is also used in industrial applications such as water purification, chemical absorption, oil spills, and other chemical processes.

Super Absorbent Polymer Applications

Super absorbent polymers (SAP) have a wide range of applications in a variety of industries. Agriculture, papermaking, hygiene products, construction, medical and healthcare, packaging, and textiles are among the applications.

Advantages of Super Absorbent Polymer

SAP is highly absorbent and durable, making it an excellent choice for products requiring long-term hydration or protection. It can hold 400 times its weight in water, making it ideal for diapers, feminine hygiene products, and agricultural irrigation systems. It is also highly resistant to bacteria, mould, and other contaminants, allowing it to be used in a variety of applications where a clean and safe environment is essential.

PROJECT COST ESTIMATE

	CAPACITY
Super Absorbent Polymer	: 30,000 MT Per Annum
Plant & Machinery	: ₹ 20 Crores
Cost of Project	: ₹ 49 Crores
Rate of Return	: 30%
Break Even Point	: 45%

Global Market Outlook

The super absorbent polymers market is expected to be worth US\$ 10.2 billion in 2023, rising to US\$ 16.5 billion by 2033. During the forecast period, sales of super absorbent polymers are expected to grow at a significant CAGR of 5%.

Conclusion

The growing demand for SAP-based products has resulted in a boom in the manufacturing of these materials in recent years, with more companies looking to capitalise on the opportunities presented by this one-of-a-kind material. SAP is likely to continue playing a role in a variety of industries in the future with additional research and development.

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- » Medical Disposables: Disposable Syringes (Self Destructive) With Needles, Catheters and Mask
- » Mini Sanitary Napkin



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

- » Nitrile NBR Powder free Medical Gloves (Disposable Nitrile Gloves)
- » Nitrile, Vinyl and Latex Disposable Medical Gloves
- » Packaged Drinking Water, Soda Water and Pet Bottles
- » Paper Cups
- » Paper Cups, Plates and Boxes
- » Paper Napkins, Facial Paper & Toilet Rolls from Tissue Paper Rolls
- » Paper Plate with Silver Lamination
- » PET Bottle from PET Resin
- » Printed Paper Shopping Bags



- » Rice Husk Based Biodegradable Cutlery
- » Sanitary Napkin & Baby Diapers
- » Sanitary Napkin (Low Investment Project)
- » Sanitary Napkins
- » Sterile Disposable Plastic Syringes
- » Surgical & Examination Latex Rubber Gloves
- » Surgical & N95 Masks
- » Surgical Disposable Hospital Apparel
- » Surgical Disposable Manufacturing Unit (Surgeon Gowns, Patient Gowns, Bed Sheets, Drapes, Surgeon Caps and Sheets)
- » Thermocol Cups, Glass and Plates



- » Thermocol Glass and Plates (Low Investment Project)
- » Thermocol (EPS) Cup, Glass & Plates
- » Thermocol Sheet & Its Moulded Products
- » Thermoforming Plant for Manufacturing of Disposable Glass
- » Tissue Paper
- » Tissue Paper from Recycled Paper
- » Toilet Paper Rolls, Facial Tissue & Paper Napkins
- » Toothpaste
- » Waste Rice Husk Powder
- » Wheat Straw



Disinfectants, Pesticides, Insecticides, Mosquito Repellents, Destroyers, Phenyl, Fertilizer, Fungicides, Herbicides, Plant Regulator, Plant Growth Regulator, Mixture, Intermediates, Agrochemicals, Bio Stimulate, Growth Activator, Organic Pesticides

- » Aerosol Spray (Bagon Type) for Mosquito, Insects
- » Ayurvedic Herbal Hand Sanitizer
- » Benzoyl Benzoate
- » Biofertilizers from Cotton Seed Cake
- » Biopesticides (Trichoderma Harzianum, Pseudomonas Fluorescens, Beauveria Bassiana)
- » Black Phenyl
- » Cypermethrin from CMAC
- » Disinfectants IP Grade for Hospital Use (Lysol Type)
- » Hand Sanitizer
- » Herbal Ayurvedic Hand Sanitizer
- » Liquid Hand Wash



- » Liquid Organic Fertiliser (Biofertiliser)
- » Melamine
- » Mosquito Coil
- » Mosquito Coils (Automatic Plant)
- » Mosquito Coils and Mats
- » Mosquito Repellent Mats & Liquid
- » Mosquito Repellent Oil
- » Mosquito Repellent Candles
- » Mosquito Repellent Coils
- » Mosquito Repellent Incense Stick
- » Mosquito Repellent Liquidator, Vaporiser (All out Type)
- » Naphthalene Balls
- » Nicotine from Tobacco Waste



- » Pesticide Preparation Using Neem Fruits & Seeds (Margosa)
- » Pesticide Residual Analysis Laboratory
- » Pesticides
- » Pesticides from Neem Seeds & Leaves
- » Pesticides Insecticides (Technical Grade)
- » Phenyl (Black & White)
- » Phenyl (Brown & White)
- » Potassium Sulphate (Fertilizer Grade)
- » Sodium Hypochlorite
- » Surfactants (Hand Wash, Floor Cleaner, Toilet Cleaner, Phenyl Black and White, Glass Cleaner, Dish Wash Liquid, Air Freshener)
- » White Phenyl



Dyestuff, Dyes, Pigments and Dye Intermediates Projects



- » Acrylic Yarn Dyeing
- » Aniline
- » AZO Dye Stuffs
- » Beta-Naphthol
- » Bordeaux GP Red B
- » Caramel Color from Sugar
- » Cotton Yarn Dyeing



- » Disperse Dye
- » Dye Intermediates
- » Dyeing of Hank Yarn for Power Loom
- » Dyes & Dye Intermediates
- » Erythrosine
- » Fast Colour Base



- » Indigo Dyes
- » Non-Formal Dye Fixing Agent (Natural)
- » Pigment Binders for Textile Printing
- » Sulphur Black Dye
- » Titanium Dioxide (Anatase Grade)
- » Ultramarine Blue
- » Vat Dyes



E-Vehicle, E-Rickshaw, Hybrid Electric Scooter, Battery Operated Vehicle, Electric Vehicles, Battery Operated Electric Rickshaw

- » Battery Electric Vehicle
- » Battery Operated Electric Rickshaw
- » Battery Operated Vehicle
- » Electric Cars



- » Electric Vehicles Sector
- » E-Rickshaw
- » E-Rickshaw (Electric tuk-tuks) Manufacturing Business



- » E-Rickshaw Assembling
- » Hybrid Electric Scooter Assembling



Active Pharma Ingredients (API) Amoxicillin Trihydrate, Azithromycin & Paracetamol

Active pharmaceutical ingredients are the active substances that are used in the manufacture of a drug and have a pharmacological effect. They provide health benefits and play a vital role in disease diagnosis, prevention, and treatment. Active pharmaceutical ingredients may be synthesized either chemically or through biotechnological methods.

The Active Pharmaceutical Ingredient (API) is the part of any drug that produces the intended effects. Some drugs, such as combination therapies, have multiple active ingredients to treat different symptoms or act in different ways.

Active Pharmaceutical Ingredient (API), is the term used to refer to the biologically active component of a drug product (e.g. tablet, capsule). Drug products are usually composed of several components. The aforementioned API is the primary ingredient. Other ingredients are commonly known as "excipients" and these substances are always required to be biologically safe, often making up a variable fraction of the drug product. The procedure for optimizing and compositing this mixture of components used in the drug is known as "formulation."

India is the seventh largest country in the world and has the second highest population. It has a parliamentary democratic form of government and has abundant natural resources and sufficient oil reserves. The country has a huge skilled, English-speaking, and inexpensive labor force. Its young population and current economic policies have made it one of the largest recipients of FDI in the world.

The global active pharmaceutical

ingredient market size is expected to reach a value of USD 286.6 billion by 2027, registering a CAGR of 6.7% over the forecast period. Factors, such as increasing preference for outsourcing APIs and growing prevalence of various target diseases such as cancer and Cardiovascular Diseases (CVDs) are expected to drive the market growth.

Majority of specialty API companies are increasing their manufacturing facilities for specialty active pharmaceutical ingredients (API) to take care of or gain market share. Substantial investments within the growth of approved specialty active pharmaceutical ingredients (API) is one in all the most important factors among key players in the specialty active pharmaceutical ingredients (API) market.

For instance, in early 2020, Wuxi STA opened oligonucleotide API manufacturing facility in Changzhou, China to cope up with the increasing demand.

In 2018, Cordon Pharma expanded operations with new commercial oligonucleotide active pharmaceutical ingredients (API) manufacturing capabilities at its FDA inspected Colorado facility.

The emergence of COVID-19 has brought the world to a standstill. We perceive that this health crisis has brought an unprecedented impact on businesses across industries. However, this too shall pass. Rising support from governments and several companies will help within the fight against this highly contagious disease. There are some industries that are struggling and some are thriving. Overall, almost each sector is anticipated to be impacted by the pandemic.

PROJECT COST ESTIMATE

CAPACITY

Paracetamol	: 1,000 Kgs / Day
Azithromycin	: 500 Kgs / Day
Amoxicillin Trihydrate	: 500 Kgs / Day
Plant & Machinery	: ₹ 175 Lakhs
Cost of Project	: ₹ 1322 Lakhs
Rate of Return	: 29%
Break Even Point	: 47%

Role of Government towards API

The coronavirus outbreak disrupting supply of active pharmaceutical ingredients (APIs) and medical devices from China to India, the government has come out with four schemes worth Rs 13,760 crore to encourage manufacturing of bulk drugs and medical devices in the country and their exports.

On March 21, the Union Cabinet under the chairmanship of Prime Minister Narendra Modi had approved an expenditure of Rs. 9,940 crore and Rs. 3,820 crore for APIs and medical devices, respectively.

The Cabinet also approved a scheme on promotion of bulk drug parks for financing common infrastructure facilities in three bulk drug parks with financial implication of Rs. 3,000 crore for next five years. The government will give grants-in-aid to states with a maximum limit of Rs. 1,000 crore per bulk Drug Park. Parks will have common facilities such as solvent recovery plant, distillation plant, power and steam units, common effluent treatment plant etc.

The government further approved production linked incentive (PLI) scheme for promotion of domestic manufacturing of critical KSMs/drug intermediates and APIs in the country with financial implications of Rs. 6,940 crore for next eight years.

Financial incentive will be given to eligible manufacturers of identified 53 critical bulk drugs on their incremental sales over the base year (2019-20) for a period of 6 years.

Out of 53 identified bulk drugs, 26 are fermentation based bulk drugs and 27 are chemical synthesis based bulk drugs.

Rate of incentive will be 20 per cent (of incremental sales value) for fermentation based bulk drugs and 10 per cent for chemical synthesis based bulk drugs.

The PLI scheme will lead to expected incremental sales of Rs. 46,400 crore and significant additional employment generation over eight years.

The drug industry has welcomed the incentives offered by the government to promote API units in India.

Besides APIs, the Cabinet also approved the scheme for promotion of medical device parks in the country in partnership with the states. A maximum grant-in-aid of Rs. 100 crore per park will be provided to the states. It will have financial implications of Rs. 400 crore.

The PLI scheme for promoting domestic manufacturing of medical devices will have financial implications of Rs. 3,420 crore for next five years.

Medical device is a growing sector and its potential for growth is the highest among all sectors in the healthcare market. It is valued at Rs. 50,026 crore for 2018-19 and is expected to reach to Rs. 86,840 crore by 2021-22. India depends on imports up to an extent of 85 per cent of total domestic demand of medical devices.

Oxygen and Nitrogen Gas Plant (Medical and Industrial Grade)

Liquid oxygen derived from sources such as the barium oxide Brin process. This process was based on the production of barium peroxide by roasting barium oxide in air at 590°C, then raising the temperature to 870°C. At 870°C the peroxide formed decomposes back into oxide, releasing more or less pure oxygen which can then be cooled and compressed into steel gas cylinders. Although crude,

the process was ingenious in that it required no continuous input of raw materials other than air and energy. Oxygen is non corrosive and can be contained in any common metals. However care must be taken to remove all oil, grease and other combustible material from piping and containers before putting them into oxygen service.

Nitrogen gas is a compound that forms from elemental nitrogen, which

is found abundantly throughout the planet's atmosphere and in most biochemical reactions. One of nitrogen's unique properties is its ability to form multiple bonds with various other elements and compounds. India industrial gases market was valued at \$ 2.1 billion in 2017 and is forecast to grow at a CAGR of over 11% to surpass \$ 3.9 billion in 2023 on account of growing demand from metal industry,

PROJECT COST ESTIMATE

CAPACITY

Capacity	: 200 Cumtrs/Hr
Plant & Machinery	: ₹ 183 Lakhs
Cost of Project	: ₹ 675 Lakhs
Rate of Return	: 26%
Break Even Point	: 50%

particularly steel. As a whole any entrepreneur can venture in this project without risk and earn profit.

How to Start Surgical Cotton Manufacturing Business

Surgical cotton is also termed as "cotton wool" or "absorbent cotton" in some cases. Surgical/absorbent cotton is cleansed, de-oiled, and bleached cotton that is packed in various sizes. Because surgical/absorbent cotton comes into direct contact with the human body, its quality is critical, and it must comply with all pharmaceutical regulations. Virgin cotton or waste cotton can be utilised as a raw material. Comber waste cotton is preferable when it comes to waste cotton. The fibres of surgical/absorbent cotton are particularly elastic. It has a diameter of 16.30 mm and a length of 12-40 mm and is made up of 98 percent cellulose.

Carded cotton fibres are used to create "Surgical Cotton" or "Cotton Wool." It is softened and bleached to achieve a beautiful white colour. It's possible that the sterilised absorbent cotton is a shade of white. The material should be of uniform quality and provide a suitable degree of resistance when pulled. A staple in absorbent cotton is 1.5 cm long on average. Absorbent cotton gets its name from how quickly it absorbs liquids. To provide the best protection against wound irritation, it should be soft.

Surgical cotton is extensively used in hospitals, clinics, health centres, and pharmacies for medical purposes. It's also used for a variety of purposes in beauty salons, businesses, and residences.

Surgical/absorbent cotton is used for sanitary reasons, surgical procedures, and everyday use. It is usually required by women during their menstrual period, which occurs once a month. It's not simply used for dressing; it's also utilised for padding in clothing, comforters, and other items.

Medical absorbent cotton, also known as surgical absorbent cotton or cotton wool, is an absorbent cotton that is commonly used in hospitals, clinics, nursing homes, dispensaries, and even at home (for first-aid purposes). Medical absorbent cotton has been washed, de-oiled, and bleached before being hermetically packed in various sizes.

Medical absorbent cotton is used to manufacture traditional forms of sanitary napkins or pads, as well as a number of medical purposes and uses, in addition to cleaning, padding, and packing. It's also used for a variety of purposes in pharmacies, barbershops, beauty salons, enterprises, and homes. Imports currently account for nearly all absorbent cotton demand.

Because medical absorbent cotton comes into direct contact with the human body, its quality is crucial, and it must meet strict standards. Medical absorbent cotton is used to manufacture traditional forms of sanitary napkins or pads, as well as a number of medical purposes and uses, in addition to cleaning, padding, and packing. It's also used for a variety of purposes in pharmacies, barbershops, beauty salons, enterprises, and homes. Imports currently account for nearly all absorbent cotton demand.

The requirement for absorbent cotton is strongly linked to the development and expansion of health institutions in the country. The federal and state governments have made expanding health facilities a priority in order to improve coverage. As a result of population increase and the Federal and Regional Governments' high level of attention, demand for absorbent

cotton is predicted to grow by 10% every year.

Medical absorbent cotton demand is strongly linked to population growth, as well as the expansion of public health and related healthcare services. In hospitals, clinics, nursing homes, and other facilities, medical absorbent cotton is in high demand, and demand is consistent throughout the year.

An increase in the prevalence of chronic diseases, operations, and treatments, as well as wound dressings, etc. In the future, the global market for medial absorbent cotton is predicted to grow.

North America currently holds the largest revenue share in the worldwide medical absorbent cotton market, followed by Europe and Asia Pacific. Expansion in the healthcare sector, which will be accompanied by an increase in the number of hospitals and clinics, as well as geographic expansion by players in the pharmaceuticals, cosmetics, and sanitary products industries, is expected to remain a major driver of the global medical absorbent cotton market.

PROJECT COST ESTIMATE	
CAPACITY	
Capacity	: 1000 Kgs. Per Day
Plant & Machinery	: ₹ 358 Lakhs
Cost of Project	: ₹ 568 Lakhs

Precipitated Silica from Rice Husk Ash

Rice milling generates a byproduct known as husk. This surrounds the paddy grain. During milling of paddy about 78 % of weight is received as rice, broken rice and bran. Rest 22 % of the weight of paddy is received as husk. This husk contains about 75 % organic volatile matter and the balance 25 % of the weight of this husk is converted into ash during the firing process, is known as rice husk ash (RHA). This RHA in turn contains around 85 %–90 % amorphous silica.

Precipitated silica is used as filler for paper & rubber as a carrier & diluents for agricultural chemicals, as an anti-caking agent, to control viscosity & thickness and as a cleansing agent in toothpastes & in cosmetics.

Precipitated silica market, which accounts for around 70% of the global specialty silica market, is expected to witness steady growth in the next three years. The rising demand for energy efficient products in the automotive industry has resulted in the rapid growth of the global precipitated silica market. As a result of these factors, the global precipitated silica market is expected to expand at a 5.5% CAGR between 2015 and 2023. Thus, as an entrepreneur this project offers an exciting opportunity to you.

PROJECT COST ESTIMATE

CAPACITY	
Precipitated Silica	: 600 MT/Annum
Activated Carbon (by product)	: 168 MT/Annum
Sodium Carbonate (by product)	: 252 MT/Annum
Plant & Machinery	: ₹ 286 Lakhs
Cost of Project	: ₹ 429 Lakhs
Rate of Return	: 4%
Break Even Point	: 72%

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 inter-fiber link.

Uses and Application

- Moulding
- Laminate Flooring

PROJECT COST ESTIMATE

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

- 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.

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