ISSN 0971-7463

Business Ideas for Startups

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. 32 | No. 05 | May 2026 | 16 Pages

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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.

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Handbook on Paper Water Bottles, Bioplastics & Biodegradable Products Manufacturing Handbook

(Bioplastic Carry Bags, Bio-PET, Bio Plastic Drinking Straws Corn and Rice Starch-Based Bio-Plastics, Food Packaging Applications, Cassava Bags, Biodegradable Tableware, Biodegradable Plates, Biodegradable Toilet Paper, Starch Based Biodegradable Plastics, Polylactic Acid (PLA))

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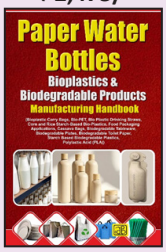


Plastic pollution is one of the biggest environmental problems today. Every year, millions of tonnes of single-use plastic end up in landfills and oceans, harming wildlife, ecosystems, and even human health. The good news is that better alternatives are now available. Bioplastics and biodegradable products can perform the same functions as regular plastics but break down naturally without leaving harmful waste.

The market for these eco-friendly materials is growing quickly around the world, and India is becoming an important player in both production and consumption. Demand is increasing in areas like food packaging, retail, agriculture, healthcare, and consumer goods. Many Indian manufacturers, small businesses, and exporters are now using biodegradable materials, supported by government rules that limit the use of traditional plastics. Globally, there is also a strong demand for certified biodegradable products, making this a fast-growing and profitable industry.

A major focus of the book is on sustainable packaging, especially paper water bottles. These bottles are becoming a popular and eco-friendly alternative to plastic water bottles due to increasing environmental awareness, strict rules against single-use plastics, and growing demand from customers and beverage companies. The book highlights their strong business potential, easy scalability, and wide market acceptance, making them an important product for the future of green manufacturing.

This book provides clear and detailed information about the biodegradable plastics industry, including its growth, challenges, and environmental impact. It covers many products such as carry bags, bottles, straws, food packaging, cassava bags, plates, tableware, and even biodegradable toilet paper. It also explains key materials like PLA, PHAs, and starch-based plastics made from corn, rice, wheat, and potato waste. Along with this, the book includes practical details like manufacturing processes, plant layouts, flow charts, and machinery information, which are very helpful for setting up or improving a production unit.

This handbook is an essential resource for students, researchers, process engineers, startup founders, entrepreneurs, manufacturers, and exporters seeking authoritative, actionable knowledge in the field of sustainable materials and biodegradable product manufacturing. It serves as both a reliable academic reference and a practical industrial guide for those committed to building responsible, future-ready manufacturing enterprises.

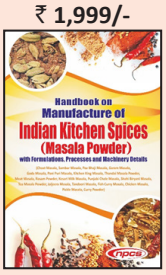
Handbook on Manufacture of Indian Kitchen Spices (Masala Powder)

7th Edition

with Formulations, Processes and Machinery Details

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

₹ 1,999/-



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

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

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

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

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

The global lead–acid battery industry is growing significantly across the globe and it is likely to register a CAGR of 5.2% during the forecast period. Growing SLI applications in the automobile sector, increase in renewable energy output, and rising demand for energy storage devices are some of the causes driving up demand for lead–acid batteries. As the telecom industry expands in nations like the United States, Brazil, India, and the United Kingdom, there is a growing demand for UPS systems as a backup power source, resulting in a higher usage of lead–acid batteries as a cost-effective energy source.

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

A complete guide on Production, Recycling of Lithium Ion and Lead-Acid Batteries manufacture and entrepreneurship. This book serves as a one-stop shop for everything you need to know about the Battery manufacturing industry, which is ripe with opportunity for manufacturers, merchants, and entrepreneurs. This is the only book that covers Production, Recycling of Lithium Ion and Lead-Acid Batteries in depth. From concept through equipment procurement, it is a veritable feast of how-to information.

Moringa Farming and Moringa Powder:

A High-Growth Business Opportunity for Startups and Entrepreneurs

Moringa farming and moringa powder manufacturing have emerged as highly promising agribusiness opportunities for startups and entrepreneurs seeking scalable, export-oriented, and health-driven ventures. Commonly known as the "drumstick tree" or miracle tree, moringa is valued for its nutritional richness and extensive applications in food supplements, nutraceuticals, cosmetics, pharmaceuticals, and herbal products. India remains the world's largest producer of moringa, making this business particularly attractive for new-age enterprises.

The rising global preference for plant-based nutrition and superfoods has significantly increased demand for moringa powder. Consumers worldwide are seeking organic immunity boosters and natural supplements, placing moringa among the fastest-growing wellness ingredients. The global moringa products market was estimated at over USD 8 billion in 2023 and is expected to witness strong growth through 2030, supported by increasing health awareness and demand for functional foods.

Why Startups Should Choose Moringa Farming and Powder Manufacturing

For startups, moringa presents a low-risk and high-potential business model. The crop requires comparatively lower water, adapts to dry climatic conditions, and can be cultivated in semi-arid regions, making it cost-efficient for Indian farmers and agripreneurs. Additionally, moringa trees grow rapidly, enabling quicker harvest cycles and faster returns on investment.

Entrepreneurs should invest in this manufacturing segment for several reasons:

1. Growing Global Demand

The health and wellness industry is rapidly expanding, and moringa powder is increasingly used in smoothies, capsules, herbal teas, nutritional supplements, and skincare products. Demand is particularly strong in markets such as the United States, Germany, France, the United Kingdom, and Japan.

2. Strong Export Potential

India dominates the global moringa supply chain and contributes a major share of international exports. Recent trade reports indicate sharp year-on-year growth in moringa powder exports, reflecting increasing international acceptance of Indian moringa products. Export opportunities make the business highly profitable for startups targeting overseas buyers.

3. High Value Addition

Raw moringa leaves have limited margins, but converting them into powder, capsules, extracts, and nutraceutical ingredients creates significantly higher profitability. Value-added manufacturing improves business sustainability and brand positioning.

4. Government Support and Agricultural Viability

Several Indian states are encouraging moringa cultivation due to its drought-resistant nature and export value. Financial assistance and technical guidance under horticulture schemes further reduce startup barriers.

PROJECT COST ESTIMATE

CAPACITY

Moringa Powder	**: ₹ 907 Kg Per Day**
Plant & Machinery	**: ₹ 134 Lakhs**
Cost of Project	**: ₹ 466 Lakhs**
Rate of Return	**: 25%**
Break Even Point	**: 80%**

Market Overview, Share, Trends and Analysis

The moringa industry is experiencing strong momentum because of increasing awareness regarding immunity, nutrition, and preventive healthcare. Global consumers now prefer natural superfoods over synthetic supplements. Asia-Pacific, particularly India, dominates production and supply, while North America and Europe represent major consumption markets. The global moringa products market is projected to exceed USD 15 billion by the end of the decade, driven by rising demand for organic and herbal nutrition products.

Major industry trends include:

- Rising demand for organic moringa powder
- Increased use in protein supplements and nutraceuticals
- Expansion in cosmetics and skincare formulations
- Growth in private-label wellness brands
- Strong preference for clean-label herbal ingredients

Major Players in the Industry

Indian Companies

- Ancient Greenfields Pvt Ltd
- Saipro Biotech Private Limited
- Herbs & Crops Overseas
- Moringa Oleifera Corporation Pvt Ltd

Overseas Companies

- Kuli Kuli Foods
- Moringa Connect
- Green Virgin Products

Moringa farming and moringa powder manufacturing represent an excellent opportunity for startups aiming to enter the fast-growing health, wellness, and export sectors. With rising global demand, low cultivation costs, scalable manufacturing, and strong export prospects, this business idea offers entrepreneurs a sustainable and profitable path in the agribusiness ecosystem.

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 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.

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 %**

Wood Plastic Composite Board from Rice Husk:

A High-Potential Manufacturing Opportunity for Startups

The increasing demand for eco-friendly construction materials has opened a profitable opportunity in the manufacturing of Wood Plastic Composite (WPC) Boards from Rice Husk. These boards are produced using rice husk waste, recycled plastic polymers, additives, and binding agents to create durable, moisture-resistant, termite-proof, and sustainable panels widely used in furniture, interior decoration, doors, partitions, wall cladding, modular kitchens, and outdoor applications. Rising environmental awareness and the shortage of natural timber are rapidly driving the demand for WPC boards globally. Rice husk, which is abundantly available as an agricultural waste product, makes this business even more attractive for entrepreneurs.

India is one of the largest rice-producing nations, generating millions of tonnes of rice husk annually. Instead of being burned or discarded, rice husk can be transformed into value-added products such as WPC boards, creating a circular economy opportunity for startups. Rice husk-based composites are increasingly gaining preference because they reduce dependence on wood, support green construction, and lower manufacturing costs. The growing shift toward sustainable building materials is accelerating market adoption.

For startups and entrepreneurs, investing in a rice husk-based WPC board manufacturing unit is highly recommended because of the low-cost raw material availability and rising demand from the construction and furniture industries. Rice husk is inexpensive and widely available near rice mills, reducing raw material procurement costs. Since WPC boards offer resistance to moisture, termites, decay, and warping, they are increasingly replacing plywood and MDF in commercial and residential projects. Moreover, the business supports sustainability goals, making it attractive for green financing, government incentives, and ESG-focused buyers.

The market outlook for rice husk composite products is promising. The global sustainable rice husk composite market was valued at nearly USD 2.8 billion in 2025 and is projected to reach approximately USD 5.9 billion by 2034, growing at a CAGR of over 8%, with building and construction remaining the largest application segment. Asia-Pacific dominates the market due to abundant agricultural waste availability and expanding infrastructure projects. Simultaneously, India's engineered wood panel and plywood market is expanding steadily due to urbanization, real estate growth, and increasing demand for modular furniture. These trends position rice husk WPC boards as a scalable and future-ready business opportunity.

Another major advantage of this industry is its export potential. Countries in Europe, the Middle East, and North America are increasing imports of eco-friendly construction materials due to strict environmental regulations and sustainability standards. Rice husk WPC boards align perfectly with green building certifications and eco-conscious consumer trends. Export-oriented startups can benefit from supplying decorative boards, outdoor decking materials, and furniture-grade panels to overseas markets where demand for wood alternatives continues to rise.

In conclusion, Wood Plastic Composite Board manufacturing from rice husk offers startups a profitable and environmentally sustainable business opportunity. With strong market demand, low-cost raw materials, export potential, increasing acceptance in green construction, and expanding applications in furniture and interiors, entrepreneurs can build a future-ready manufacturing business with long-term scalability and healthy profit margins.

PROJECT COST ESTIMATE

CAPACITY

WPC Board (8ft x 4ft, 2440 x 1220mm)	: 10 MT Per Day
Plant & Machinery	: ₹ 128 Lakhs
Cost of Project	: ₹ 885 Lakhs
Rate of Return	: 28%
Break Even Point	: 54%

Setup Electrolytic Manganese Dioxide Business

Electrolytic Manganese Dioxide (EMD) is a black powder that is produced through an electrolytic process. EMD is known for its high purity, high capacity, and excellent electrochemical properties, making it a popular choice in various applications. The production of EMD involves the electrolysis of a manganese sulfate solution, which results in the deposition of manganese dioxide on the cathode. This manganese dioxide is then processed further to obtain the desired EMD product.

Applications

EMD is used in the production of lithium-ion batteries, where it serves as a key component in cathodes, enabling efficient energy storage and discharge. The ceramic industry also relies on EMD for its excellent pigmenting and coloring properties. EMD is commonly used in the production of ceramics, where it adds vibrant colors and enhances the durability of the finished products. Additionally, EMD finds application in the manufacturing of pigments for paints and coatings, providing long-lasting color and improved corrosion resistance.

Market Analysis and Business Plan

Understanding the current market trends, competition, and pricing dynamics will enable you to position your plant strategically and identify unique selling points. A robust business plan is crucial for securing funding and attracting investors. It should include a detailed analysis of the plant's costs, such as equipment, raw materials, labor, and utilities. Additionally, it should outline your marketing and sales strategy, production capacity, and projected financials. Presenting a comprehensive business plan will demonstrate your understanding of the market, industry, and the feasibility of your EMD plant.

PROJECT COST ESTIMATE

CAPACITY

Electrolytic Manganese Dioxide	: 5 MT Per Day
Plant & Machinery	: ₹ 89 Lakhs
Cost of Project	: ₹ 576 Lakhs
Rate of Return	: 27%
Break Even Point	: 57%

Testing and Quality Assurance

The testing and quality assurance process plays a critical role in maintaining the high standards that are expected in the industry. This process involves rigorous testing and inspection of the EMD at various stages of production to ensure that it meets the required specifications. During the production process, regular monitoring and testing should be conducted to ensure that the desired electrochemical properties of the EMD are achieved.

This includes analyzing the current density, pH level, and temperature to maintain optimal conditions for deposition. Once the EMD is produced, it should undergo comprehensive quality assurance tests to verify its purity, capacity, and electrochemical performance.

Conclusion

If you're looking for a profitable venture in the chemical industry, an EMD plant offers immense opportunities for growth and success. It's time to take advantage of the increasing demand for EMD and establish your presence in this thriving market.

Potassium Schoenite Manufacturing:

A High-Growth Opportunity for Startups and Entrepreneurs

In the fast-changing agricultural input industry, Potassium Schoenite manufacturing is emerging as a promising business opportunity for startups and entrepreneurs looking to enter the specialty fertilizer segment. Potassium Schoenite, also known as Potassium Magnesium Sulphate ($K_2SO_4 \cdot MgSO_4 \cdot 6H_2O$), is a chloride-free fertilizer that supplies potassium, magnesium, and sulfur—three vital nutrients essential for healthy crop growth. Due to increasing demand for high-yield farming and export-quality crops, the market for specialty fertilizers such as Potassium Schoenite is expanding rapidly.

For startups aiming to enter the manufacturing sector, this industry offers strong long-term growth potential because agriculture remains a necessity-driven market. Unlike seasonal businesses, fertilizer demand remains consistent due to increasing food consumption, population growth, and rising awareness among farmers regarding soil nutrition. In India, the adoption of premium fertilizers is increasing significantly as farmers move toward horticulture, fruits, vegetables, and export crops where chloride-free fertilizers are preferred.

Why Startups Should Choose Potassium Schoenite Manufacturing

One of the strongest reasons for entrepreneurs to invest in Potassium Schoenite manufacturing is the growing demand for specialty fertilizers. Traditional fertilizers often lack balanced nutrition, whereas Potassium Schoenite improves crop quality, shelf life, color, and productivity. It is highly beneficial for crops like potatoes, tobacco, tea, fruits, vegetables, spices, and plantation crops.

Another important factor is lower competition compared to conventional fertilizer manufacturing. Since Potassium Schoenite is considered a niche and value-added product, entrepreneurs can target premium agricultural markets and build stronger profit margins. India still depends partly on imported specialty fertilizers, creating opportunities for domestic manufacturers to reduce import dependency and strengthen local supply chains.

PROJECT COST ESTIMATE

CAPACITY:

Potassium Schoenite	*: 3,000 MT Per Annum*
Magnesium Sulphate Brine (by Product)	*: 2,850 MT Per Annum*
Plant & Machinery	: ₹ 155 Lakhs
Cost of Project	: ₹ 689 Lakhs
Rate of Return	: 30%
Break Even Point	: 59%

Government support for agrochemical manufacturing, MSME schemes, and increasing investments in agricultural modernization also make this business attractive for startups. As precision farming and nutrient management practices expand, demand for specialized fertilizers is expected to rise steadily.

Market Size, Share and Industry Trends

The global Potassium Schoenite market is witnessing healthy growth due to rising agricultural productivity requirements. Industry estimates suggest the market was valued between approximately USD 1.8–2.3 billion in 2024–2025 and is projected to grow steadily over the next decade at a CAGR of nearly 5–6%. Asia-Pacific, especially India and China, is expected to remain one of the fastest-growing regions due to increasing fertilizer consumption and commercial farming activities.

Agriculture represents the dominant market segment, accounting for the largest share of consumption. The increasing popularity of organic farming, protected cultivation, and high-value horticultural crops is driving further demand. Granular Potassium Schoenite products currently dominate the market because of their ease of application in farming operations.

A major trend shaping the market is the shift toward chloride-free fertilizers. Export-oriented farming increasingly requires premium nutrient solutions to meet international quality standards, giving Potassium Schoenite a strong competitive advantage. Additionally, sustainable farming practices and soil nutrient balancing are encouraging wider adoption among progressive farmers.

Export Potential and Market Overview

The export potential for Potassium Schoenite manufacturing is highly promising. Countries with advanced agricultural sectors are demanding specialty fertilizers for greenhouse cultivation, horticulture, and organic farming. Markets in Southeast Asia, Africa, Europe, and the Middle East present strong opportunities for Indian manufacturers. India's strategic geographic position and established fertilizer export infrastructure can help startups enter global markets competitively. Entrepreneurs who maintain quality standards and certifications can easily target international buyers seeking reliable chloride-free fertilizers.

For entrepreneurs seeking a manufacturing business with stable demand, export opportunities, and alignment with India's agricultural growth story, Potassium Schoenite manufacturing offers an attractive opportunity. With increasing focus on premium farming, soil nutrition, and sustainable agriculture, startups entering this segment today can build a scalable and profitable business over the coming years.

Manufacturing Business of Bamboo Charcoal

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

Market Predictions:

From 2021 to 2026, the value of the bamboo charcoal market is expected to increase by USD 2.33 billion, with a CAGR of 19.35 percent. The bamboo charcoal market is mostly driven by factors such as rising demand for natural charcoal.

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

PROJECT COST ESTIMATE

CAPACITY:

Capacity	: 4 MT Per Day
Plant & Machinery	: ₹ 40 Lakhs
Cost of Project	: ₹ 200 Lakhs
Rate of Return	: 26%
Break Even Point	: 56%

Paper Bottles for Beverages:

A Future-Ready Manufacturing Opportunity for Startups and Entrepreneurs

The global beverage packaging industry is undergoing a major transformation as consumers, governments, and brands shift toward sustainable alternatives. One of the most promising innovations in this space is paper bottles for beverages. These bottles are designed using molded paper pulp with an inner protective barrier, offering an eco-friendly substitute for plastic and glass packaging. With rising awareness of environmental concerns and increasing restrictions on single-use plastics, paper bottle manufacturing presents a high-potential business opportunity for startups and entrepreneurs.

The concept of paper bottles is gaining momentum in industries such as bottled water, juices, soft drinks, dairy beverages, alcoholic drinks, and functional beverages. Global brands are actively experimenting with paper-based packaging to reduce carbon footprints and enhance sustainability credentials. Companies in beverages, cosmetics, and food packaging are increasingly investing in this emerging technology.

Why Startups Should Choose This Business Idea

For startups, paper bottle manufacturing offers a combination of innovation, sustainability, and long-term market demand. Unlike traditional packaging sectors that are highly saturated, paper bottle production is still in an early growth phase, leaving room for new entrants with advanced technology and scalable production systems.

One major advantage is the rising preference for eco-friendly products among consumers. Beverage companies are under pressure to reduce plastic waste and adopt greener packaging alternatives. Startups entering this market can become suppliers to beverage brands seeking sustainable packaging partners.

Additionally, governments across the world are promoting biodegradable and recyclable packaging through environmental regulations and policy reforms. India's increasing focus on sustainability and circular economy practices further creates favorable conditions for entrepreneurs entering this manufacturing segment.

Market Size, Share and Growth Potential

The global paper bottle market remains relatively niche but is growing steadily due to increasing environmental awareness. Industry estimates suggest that the market was valued at approximately US$ 70–80 million in recent years, with projections indicating a compound annual growth rate (CAGR) of 5–8% over the next decade. Market forecasts estimate the industry could cross US$ 130–145 million by 2034–2035, driven by beverage packaging demand and premium sustainable product positioning.

Asia-Pacific is expected to emerge as the fastest-growing region because of rising beverage consumption, packaging innovation, and growing sustainability awareness. India, in particular, is becoming an attractive destination due to its rapidly growing paper packaging and food & beverage sectors. The Indian paper packaging market itself is expanding significantly, creating a strong support ecosystem for paper bottle manufacturers.

Market Trends and Industry Analysis

Several important trends are shaping the future of this industry:

- Sustainability-driven packaging demand from beverage companies.
- Lightweight packaging solutions replacing heavy glass bottles.
- Premium branding opportunities, as paper bottles offer unique shelf appeal.
- Carbon footprint reduction, making paper bottles attractive for environmentally conscious consumers.
- Export-oriented demand from Europe and North America, where eco-packaging regulations are stricter.

Leading beverage brands have already started commercial trials of paper bottles for wine, spirits, sauces, and beverages. Retail adoption is increasing as consumers respond positively to sustainable packaging alternatives.

Export Potential

The export potential for paper bottle manufacturing is highly promising. Countries such as the UK, Germany, the United States, France, and Scandinavian nations are aggressively promoting sustainable packaging. Since India has a strong paper and pulp manufacturing ecosystem and competitive labor costs, entrepreneurs can target export markets by supplying customized paper bottles to global beverage companies.

With sustainability becoming a purchasing criterion for international brands, Indian manufacturers can secure export contracts for eco-friendly beverage packaging.

Major Players in the Industry

Indian Players

- ITC Limited
- JK Paper
- Rhea Distilleries (paper bottle beverage initiative)

Overseas Players

- Paboco
- Pulpex
- Frugalpac
- Amcor

In conclusion, paper bottle manufacturing for beverages represents an innovative and environmentally responsible business opportunity. For startups and entrepreneurs seeking a future-oriented manufacturing venture with export possibilities, growing demand, and sustainability-driven momentum, this sector offers strong long-term investment potential. As eco-conscious packaging becomes mainstream, early movers in this market may gain a significant competitive advantage.

PROJECT COST ESTIMATE

CAPACITY

Paper Bottles for Beverages (750 ml Size)	: 19,200 Bottles Per Day
Plant & Machinery	: ₹ 3570 Lakhs
Cost of Project	: ₹ 4308 Lakhs
Rate of Return	: 27%
Break Even Point	: 34%

Gas Atomized Aluminium Powder Manufacturing:

A High-Potential Industrial Venture for Startups and Entrepreneurs

Gas atomized aluminium powder is an advanced metallic powder produced by melting aluminium and converting it into fine spherical particles using high-pressure inert gases such as nitrogen or argon. This high-performance powder is widely used in aerospace, automotive, additive manufacturing (3D printing), explosives, paints, metallurgy, and thermal spray coating industries. Due to its excellent flowability, lightweight nature, oxidation resistance, and high purity, demand for gas atomized aluminium powder is increasing steadily in both domestic and global markets.

For startups and first-generation entrepreneurs, this manufacturing business presents a strong opportunity because of rising industrial demand, export possibilities, and expanding use in modern engineering applications.

Why Startups Should Choose This Business

The gas atomized aluminium powder industry offers an attractive business model because it caters to high-growth sectors such as electric vehicles, defense manufacturing, aerospace components, and metal additive manufacturing. Unlike traditional powder production, gas atomization produces highly spherical and consistent particles, making the product premium and technologically superior.

One major advantage for startups is the comparatively lower competition in specialized aluminium powder manufacturing compared to mainstream metal industries. Entrepreneurs entering this segment can target niche buyers such as automotive component makers, aerospace manufacturers, chemical industries, and metal injection molding companies.

Another reason to invest is the increasing preference for lightweight metals globally. Aluminium powder helps manufacturers reduce component weight while maintaining durability, which aligns with modern industrial sustainability goals.

Market Size, Share and Industry Trends

The global aluminium powder market is witnessing consistent growth due to rising industrial applications. The worldwide aluminium powder market is projected to cross USD 2.6–3.0 billion by the next decade, supported by increasing use in additive manufacturing, automotive lightweighting, and industrial coatings. Atomized aluminium powder has emerged as one of the fastest-growing product categories due to precision engineering requirements.

In India, the aluminium powder market is expanding steadily with demand coming from pyrotechnics, chemicals, paints, metallurgy, and industrial engineering sectors. India's aluminium powder consumption reached nearly 48,000 tons in 2025 and is projected to grow significantly over the coming years at an estimated CAGR of around 5–6%. Gas atomization technology is gaining traction as industries seek higher-quality powders.

Current market trends favor spherical aluminium powders due to their superior density and uniformity, especially in 3D printing and aerospace-grade applications. Growing investments in electric vehicles and defense manufacturing are also expected to accelerate demand for gas atomized powders.

Export Potential and Market Overview

Gas atomized aluminium powder has substantial export opportunities, particularly to countries involved in precision manufacturing and additive manufacturing technologies. Major importing regions include North America, Europe, Japan, South Korea, and Middle Eastern countries.

Indian manufacturers can benefit from lower production costs, improving quality standards, and government support for exports under manufacturing initiatives. Since global buyers increasingly seek reliable alternative suppliers outside traditional manufacturing hubs, Indian startups entering this business can establish long-term export contracts.

The market is especially favorable for manufacturers producing customized particle sizes and high-purity powder grades for specialized industries.

Reasons for Entrepreneurs to Invest

1. Growing industrial demand across automotive, aerospace, and engineering sectors.
2. Premium pricing opportunity due to advanced manufacturing technology.
3. Strong export market with increasing international demand.
4. Future-ready business model linked to EVs, 3D printing, and powder metallurgy.
5. Lower direct competition in specialized gas atomized aluminium powder manufacturing.
6. High-value product margins compared to conventional aluminium products.

Major Players in the Industry

Indian Companies

- Metal Powder Company Limited
- Arasan Aluminium Industries
- MMP Industries Limited

Overseas Companies

- Alcoa Corporation
- ECKA Granules
- Valimet Inc.

PROJECT COST ESTIMATE

CAPACITY:

Gas Automized Aluminium Powder	*: 4,000 Kgs Per Day*
Aluminium Dross	*: 145 Kgs Per Day*
Plant & Machinery	**: ₹ 1985 Lakhs**
Cost of Project	**: ₹ 2787 Lakhs**
Rate of Return	**: 29%**
Break Even Point	**: 52%**

Gas atomized aluminium powder manufacturing represents a future-oriented industrial investment with strong profitability potential. Entrepreneurs willing to adopt quality manufacturing standards and advanced processing technology can build a scalable business capable of serving both domestic and international markets. With increasing demand from aerospace, additive manufacturing, automotive, and defense sectors, this venture stands out as a promising manufacturing opportunity for ambitious startups.

Blood Bags Manufacturing Business:

A High-Potential Opportunity for Startups and Entrepreneurs

The healthcare industry continues to expand rapidly, and one of the most promising opportunities within medical disposables is the manufacturing of blood bags. Blood bags are sterile plastic containers used for the collection, storage, transportation, and transfusion of blood and blood components. These products are essential for hospitals, blood banks, trauma centers, diagnostic laboratories, and emergency healthcare facilities.

With increasing healthcare awareness, rising surgeries, road accidents, chronic disease prevalence, and growing blood donation drives, the demand for blood bags has witnessed substantial growth across India and international markets. For startups and entrepreneurs seeking a stable, scalable, and socially impactful manufacturing venture, blood bag production offers strong long-term potential.

Why Startups Should Choose Blood Bag Manufacturing

Blood bag manufacturing is a recession-resistant business because healthcare products remain essential regardless of economic conditions. Unlike seasonal industries, medical consumables maintain year-round demand.

For entrepreneurs, the biggest advantage lies in consistent institutional demand. Government hospitals, private hospitals, blood banks, and medical procurement agencies require uninterrupted supplies. Additionally, healthcare spending in India is steadily increasing, creating long-term business security.

Another compelling reason to invest is the recurring purchase pattern. Blood bags are disposable, single-use products due to strict medical safety standards. This creates repeat demand and predictable sales volumes.

The business also benefits from increasing awareness around blood donation campaigns, emergency trauma care, organ transplants, and surgical procedures, all of which require safe blood collection and storage systems.

Market Size and Industry Overview

The global blood bags market was valued at approximately USD 342 million in 2024 and is projected to grow significantly by 2030 at a CAGR of nearly 7.5%, driven by increasing blood transfusion procedures and rising healthcare infrastructure investments.

In India, the blood bags market generated nearly USD 18.3 million in 2024 and is expected to reach around USD 29.5 million by 2030, growing at over 8% CAGR. Rising surgical procedures, trauma treatment, and blood donation programs are accelerating market growth.

India's growing healthcare ecosystem, expanding medical tourism, and increased investments in hospital infrastructure make this sector highly attractive for manufacturing startups. Government procurement through tenders also creates significant opportunities for domestic manufacturers.

Key Market Trends

Several emerging trends are shaping the blood bag manufacturing industry:

- Rising adoption of advanced blood storage technologies
- Growing demand for multi-chamber blood bags for component separation
- Increased focus on infection control and sterile packaging
- Strong government emphasis on blood safety and healthcare infrastructure
- Growth in voluntary blood donation campaigns and blood banks

Technological improvements such as RFID tracking, improved sterilization, and enhanced biocompatible materials are also improving product quality and demand.

Export Potential

Blood bags have excellent export potential, especially in developing nations across Asia, Africa, Latin America, and the Middle East where healthcare infrastructure is expanding.

Indian manufacturers enjoy a cost advantage due to affordable labor, growing pharmaceutical expertise, and strong medical device manufacturing capabilities. With proper certifications such as ISO, CE Marking, and regulatory compliance, entrepreneurs can successfully enter international markets.

Demand for disposable sterile medical consumables is growing globally, making blood bags an export-oriented opportunity with attractive margins.

Major Players in the Industry

Indian Companies

- Poly Medicure Limited
- HLL Lifecare Limited
- Terumo Penpol Pvt. Ltd.
- BL Lifesciences Pvt. Ltd.
- Innvol Medical India Limited

Overseas Companies

- Terumo Corporation
- Grifols S.A.
- Haemonetics Corporation
- Fresenius SE & Co. KGaA
- MacoPharma

Blood bag manufacturing represents an attractive opportunity for startups because it combines stable healthcare demand, recurring consumption, export opportunities, and long-term scalability. Entrepreneurs entering this industry with quality compliance, regulatory approvals, and efficient manufacturing systems can build a highly profitable business while contributing to life-saving healthcare infrastructure.

PROJECT COST ESTIMATE

CAPACITY:

Blood Bags Single	*: 3,200 Nos. Per Day*
Blood Bags Double	*: 2,800 Nos. Per Day*
Blood Bags Triple	*: 2,000 Nos. Per Day*
Plant & Machinery	: ₹ 687 Lakhs
Cost of Project	: ₹ 1259 Lakhs
Rate of Return	: 24%
Break Even Point	: 52%

Set up Mini Steel Plant (Billets and TMT Bar)

A mini steel plant is a smaller version of an integrated steel mill, which produces and processes iron and steel. The mini steel plant is a new concept in the steel industry, and has been gaining popularity in recent years due to its lower investment costs and flexibility.

Uses and Applications

Some of the most common uses include: cutting rebar, angle iron, square tubing, pipe, and flat stock; as well as punching holes in steel plate. The mini steel plant can also be used to shear plate and bar stock, and to create custom shapes from sheet metal. These products have a wide range of applications including: Construction, Manufacturing, and Automotive.

PROJECT COST ESTIMATE

CAPACITY:

Steel Billets (Size 100mm x 100mm to 180mm x 180 mm Sections of Max. 6 meter length)	*: 150 MT Per Day*
TMT Steel Bars (Rebar) (Size DB 8 to 40 mm)	*: 150 MT Per Day*
Plant & Machinery	: ₹ 5445 Lakhs
Cost of Project	: ₹ 10417 Lakhs
Rate of Return	: 28%
Break Even Point	: 37%

Indian Market

The global steel market size is expected to reach USD 1.01 trillion by 2025, at a registering a CAGR of 2.6% over the forecast period. Growing inclination of contractors towards sustainable, low cost and durable building materials is driving steel demand in upcoming residential projects & industrial infrastructure.

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Lucrative Business Ideas for Startup

Setup Plant of Pea Protein Isolate/ Concentrate

Pea protein isolate and concentrate are derived from yellow peas. These products are a vegan-friendly and plant-based alternative to animal-based proteins like whey and casein. Pea protein isolate is a highly refined form of pea protein that is free from fats, carbohydrates, and fiber. This product has a protein content of up to 90%. Pea protein concentrate, on the other hand, is less refined and contains some carbohydrates and fiber. Its protein content ranges from 60-80%. Pea protein isolate and concentrate are ideal for people with food sensitivities or allergies, especially those who are lactose intolerant. It is also a sustainable option as it does not require as much land or water as animal-based proteins.

Indian Market Outlook

The Indian market outlook for pea protein isolate and concentrate is promising. The demand for plant-based protein sources is growing in India, and pea protein has gained popularity as a viable alternative to traditional animal-based protein sources. The market for plant-based protein in India is expected to grow at a significant rate in the coming years. The growing awareness of the health benefits of plant-based diets and the increasing demand for vegan and vegetarian products are driving the growth of the plant-based protein market in India.

Global Market Outlook

The global pea protein market size was USD 416.39 million in 2020 and is projected to grow from USD 464.60 million in 2021 to USD 1,026.12 million by 2028 at a CAGR of 12.0% during the 2021-2028 period. Pea is a leguminous plant in which the pea seeds comprise huge amounts of protein (20– 30%). It mainly exists as globulins, which are the main components in Pea Protein Isolate (PPI) products. Protein from peas can be produced based on wet-milling and dry-milling technologies, with protein content ranging from 48% to 90%. Nutritional benefits, oil-binding capacity, water-binding capacity, foam stability, foam expansion, whip ability, emulsion stability, gelatin, and emulsion ability ratio are essential functional properties of PPI and concentrates.

PROJECT COST ESTIMATE

CAPACITY:

Pea Protein Isolate	:	*2 MT Per Day*
Spent Pea for Cattle Feed by Product	:	*8 MT Per Day*
Plant & Machinery	:	₹ 118 Lakhs
Cost of Project	:	₹ 614 Lakhs
Rate of Return	:	27 %
Break Even Point	:	54 %

Conclusion

With the growing trend of health and fitness, the sports nutrition market is also contributing to the boom in the pea protein isolate and concentrate business. The future looks bright for pea protein isolate and concentrate in the food and beverage industry as it offers a high-quality, cost-effective, and versatile plant-based protein option that consumers can enjoy without sacrificing taste or quality.

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 DetailedProcess of Manufacture, Flow Sheet Diagram.

PERSONNEL REQUIREMENTS : Requirement of Staff & Labour, Personnel Management, Skilled & Unskilled Labour.

LAND & BUILDING : Requirement of Land Area, Rates of the Land, Built up Area, Construction Schedule, Plant Layout.

FINANCIAL ASPECTS : Cost of Raw Materials, Cost of Land & Building, Cost of Plant & Machineries, Fixed Capital Investment, Working Capital, Project Cost, Capital Formation, Cost of Production, Profitability Analysis, Break Even Point, Cash Flow Statement for 5 to 10 Years, Depreciation Chart, Conclusion, Projected Balance Sheet, Land Man Ratio.

- **Prepared by highly qualified and experienced consultants and Market Research and Analyst Supported by a panel of experts and computerised data bank.**
- **Data provided are reliable and upto date collected from suppliers/ manufacturers, plant already commissioned in India.**
- **NPCS Reports are very economical and immediately available on demand where as commissioned Feasibility Studies are time consuming and costly.**

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

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

Business Ideas: 2.5 - 3 Crore *(Plant and Machinery) :*

Selected Project Profiles for Entrepreneurs, Startups

- 3-chloropivaloyl Chloride
- 4 Star Hotel
- Nicotine from Tobacco Waste
- Active Zinc Oxide from Zinc Ash, Secondary Zinc Waste & EAF Dust
- Agricultural Warehouse with Cold Storage
- Aluminium Extrusion Plant
- Arabic Gum
- Automated Vehicle Scrapping and Recycling Unit
- Baker's Yeast
- Beer Plant
- Bentonite Processing
- Bicycle Manufacturing
- Biodegradable Plastic Bags from Corn Starch

- Calcium Bromide
- Catenary Wires and Conductors Used in Railway Electrification
- Chocolate
- Cold Storage (Shrimp & Agricultural Products)
- Dairy Farming & Dairy Products (Milk, Butter, Ghee & Paneer)
- Dairy Farming & Dairy Products (Pasteurised Milk & Curd)
- Dairy Farming (500 Cows)
- Disposable Nitrile Gloves (Nitrile Examination Hand Gloves)
- Electric PCC Poles
- Extraction of Essential Oil from Black Pepper
- Flexographic Printing

- Gold and Diamond Jewellery
- Grapes Packing for Exports with 100 MT Cold Storage
- Graphite Crucible
- Hexamethoxymethyl Melamine Resin (HMMM)
- Hot and Cold Fusion of Glass
- I.V. Fluids (BFS Technology)
- Industrial and Pharmaceutical Grade Starch from Cassava, Maize and Tacca Roots
- IV Fluids (BFS Technology)
- Lithium Ion Battery(Lifepo4) Business Plan
- Low Carbon Ferro Manganese (Medium Grade)
- Lucrative Business Plan for Calcium Sennosides from Senna Leaves Production

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

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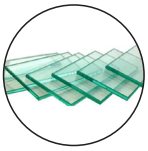
SELECTED BUSINESS IDEAS FOR RIGHT INVESTMENT

- Maize Starch and Its By Products
- Manufacturing Business of Blood Bags
- Gold and Diamond Jewellery
- Needles for Sewing and Embroidery Machine
- Oxygen Gas Plant (Medical Grade)
- Pet Polyester Acoustic Panel
- Phosphate Rich Organic Manure (PROM)
- Ply Board from Poplar & Eucalyptus Wooden Logs
- Precipitated Silica from Rice Husk Ash
- Blood Collection Tubes (Vacutainer)
- Latex & Nitrile Gloves
- Soft Gelatin Capsules (Softgel Capsules)
- Magnesium Sulphate

- PVC/HDPE Pipes (Irrigation, Drinking Water, Agriculture and Sewerage)
- Red Oxide Primer from Mill Scale
- Roller Flour Mill with Packaging (Automatic Plant)
- Saline and Dextrose Fluid (IV Fluid) BFS Technology
- Sanitary Napkins
- Sesame Seed Hulling Plant
- Automated Vehicle Scrapping Unit
- Auto Brake Pad and Auto Brake Shoe
- Silicon Metal
- Skill Development Centre
- Sodium and Ammonium Molybdate
- Sodium Hydrosulphite Manufacturing Business

- Soft Gelatin Capsules
- Solar Panel
- Stable Bleaching Powder
- Bamboo Fiber & Yarn
- Active Pharmaceutical Ingredients • Metformin • Amoxicillin • Ibuprofen • Paracetamol
- Printed Circuit Board (PCBS)
- Mica Powder from Mica Deposits
- Ready Mix Plaster, Block Jointer, Tile Adhesive and M 20 Concrete (Micro Concrete)
- TMT Bars
- Toughened Glass
- Yeast from Molasses
- Zinc Sulphate Monohydrate (Agriculture & Food Grade)



npcs Start Investing in Fastest Growing Industries

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.

"Theobroma cacoa," a term referring to the tree that bears cocoa, a fundamental raw ingredient in the manufacturing of chocolate, was one of the most significant discoveries made in the 18th century. Chocolate was discovered to have originated in the Amazon basin of South America. The cocoa tree was given the name "Theobroma cacoa" by Carolus Linnaeus, a Swedish botanist, which means "food of Gods" in Greek.

Tropical climates are ideal for the cocoa tree. Cocoa tree cultivation is typically done in the shade of a huge shady tree, and it necessitates sufficient moisture and nutrients to develop. A variety of rots, wilts, and fungal infections can affect cocoa.

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.

Despite the fact that grindings have increased to satisfy demand, processing's global market share has remained stable. In terms of volume, the Netherlands is one of the largest processing countries, accounting for almost 13% of global grindings. Around 38% of the processing market is accounted for by Europe and Russia combined. Since 2008, the average annual rise in demand has been little over 3%.

The majority of the chocolate is melted into the liquor, which is then separated into cocoa solids and cocoa butter, or chilled and moulded into raw chocolate blocks. It's mostly used in chocolate making (typically in conjunction with additional cocoa butter).

Cocoa butter, or theobroma oil, is a light-yellow vegetable lipid obtained from cocoa beans. Fermenting, drying, roasting, stripping, and pressing cocoa beans provide cocoa butter.

Cocoa powder is used to flavour biscuits, ice cream, dairy drinks, and desserts. It's used to manufacture confectioner's coatings and frozen sweets, in addition to being used as a flavour.

Chocolate spread is a sweet chocolate-flavored paste that is commonly put on breads and toasts, as well as waffles, pancakes, muffins, and pitas.

PROJECT COST ESTIMATE

CAPACITY:

Cocoa Liquor	*: 2,000 Kgs Per Day*
Cocoa Butter	*: 974.4 Kgs Per Day*
Cocoa Powder	*: 512.8 Kgs Per Day*
Chocolate Spread	*: 530.2 Kgs Per Day*
Chocolate Syrup	*: 2,263.9 Kgs Per Day*
Plant & Machinery	**: ₹ 1582 Lakhs**
Cost of Project	**: ₹ 2422 Lakhs**
Rate of Return	**: 26%**
Break Even Point	**: 39%**

Chocolate syrup is a sweet, chocolate-flavored condiment. It's commonly used as an ice cream topping or dessert sauce, or blended with milk to make chocolate milk, or blended with milk and ice cream to make a chocolate milkshake.

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.

The Indian chocolate market is predicted to reach US$ 1.9 billion in 2020, making it one of the fastest-growing chocolate markets in the world. According to IMARC Group, the market would grow at a CAGR of 11.3 percent between 2021 and 2026. We're constantly monitoring and evaluating the pandemic's direct and indirect consequences, taking into account COVID-19's uncertainty.

India's strong economic growth has boosted per capita disposable incomes in recent years, propelling the chocolate sector to new heights. As a result, rather of buying chocolates for special occasions, individuals are buying them on a more frequent basis.

Precipitated Silica & Activated Carbon from Rice Husk:

A High-Potential Manufacturing Opportunity for Startups

The conversion of rice husk into precipitated silica and activated carbon is emerging as one of the most promising green manufacturing opportunities for startups and entrepreneurs. Rice husk, an agricultural waste generated in massive quantities by rice mills, is often discarded or burnt, creating environmental concerns. However, with the right technology, this low-cost biomass can be transformed into high-value industrial products used across automotive, pharmaceuticals, water treatment, food processing, personal care, paints, and rubber industries.

For startups looking for a scalable, sustainable, and export-oriented manufacturing business, this sector offers compelling advantages.

Why Should Startups Choose This Business?

A startup should consider investing in this manufacturing opportunity because it combines low-cost raw materials with high-value end products. Rice husk is abundantly available in rice-producing nations like India, Thailand, Vietnam, and Indonesia, making sourcing economical. At the same time, precipitated silica and activated carbon command premium pricing due to their industrial demand.

Another important reason is the rising global preference for eco-friendly and circular economy solutions. Industries are increasingly replacing synthetic and petroleum-based materials with sustainable alternatives. Rice husk-derived silica and activated carbon fit perfectly into this trend. Demand is growing particularly in green tyres, water purification systems, toothpaste, pharmaceuticals, and industrial filtration.

Market Size, Share and Industry Outlook

The precipitated silica industry is experiencing robust growth globally. The worldwide precipitated silica market was valued at over USD 4 billion in 2024 and is projected to grow steadily due to rising consumption in tyres, rubber reinforcement, oral care, and agrochemicals.

In India, the precipitated silica market was valued at around USD 76 million in 2024 and is expected to grow at over 10% CAGR, driven by automotive manufacturing, tyre production, and consumer products.

Rice husk-based precipitated silica, specifically, is gaining traction as manufacturers seek greener raw materials. Industry forecasts indicate strong double-digit growth potential over the coming decade.

The activated carbon market is also witnessing rapid expansion due to increasing water treatment infrastructure, air purification systems, and industrial filtration needs. Activated carbon produced from biomass materials such as rice husk has strong demand because of its adsorption efficiency and sustainable sourcing.

Reasons for Entrepreneurs to Invest

Entrepreneurs can benefit significantly from this sector due to several strategic advantages:

1. Abundant Raw Material Availability

India is one of the world's largest rice producers, generating millions of tons of rice husk annually. This ensures continuous and affordable raw material availability.

2. Strong Profit Margins

Rice husk is inexpensive, but processed silica and activated carbon are specialty products with higher market value.

3. Export Potential

There is strong international demand from Europe, North America, Southeast Asia, and the Middle East for eco-friendly precipitated silica and activated carbon. Export opportunities are particularly attractive for tyre, cosmetics, filtration, and pharmaceutical industries.

4. Sustainability Advantage

This business converts agricultural waste into commercially valuable materials, aligning with ESG goals and green manufacturing policies.

5. Diverse Customer Base

Products can be sold to tyre manufacturers, water purification companies, toothpaste makers, food processors, chemical industries, and pharmaceutical companies, reducing market dependency.

Major Industry Players

Indian Companies:

- Tata Chemicals
- Oriental Carbon & Chemicals

Global Companies:

- Evonik Industries
- Cabot Corporation
- Green Silica Group

PROJECT COST ESTIMATE

CAPACITY:	
Precipitated Silica	*: 630 MT Per Annum*
Activated Carbon	*: 690 MT Per Annum*
Sodiuum Carbonate) Wet Basis (by Product	*: 540 MT Per Annum*
Plant & Machinery	**: ₹ 485 Lakhs**
Cost of Project	**: ₹ 853 Lakhs**
Rate of Return	**: 25%**
Break Even Point	**: 49%**

For entrepreneurs seeking a future-ready manufacturing venture, precipitated silica and activated carbon from rice husk offer an ideal combination of sustainability, profitability, export demand, and long-term industrial growth. With increasing emphasis on waste-to-wealth technologies and green industrial materials, this business has strong potential to become a scalable and resilient manufacturing enterprise.

Lead Production

(Litharge, Refined Lead, Red Lead & Grey Lead)

Lead is a relatively soft metal with bluish-white lusture but on exposure to air, it becomes covered by a dull, gray layer of basic carbonate that adheres closely and protects it from further oxidation or corrosion. It is an important component of batteries, and about 75% of the world's lead production is consumed by the battery industry. Lead is also commonly used in glass and enamel.

PROJECT COST ESTIMATE

CAPACITY:	
Litharge	*: 960 MT/Annum*
Refined Lead	*: 1800 MT/Annum*
Red Lead	*: 440 MT/Annum*
Grey Lead	*: 525 MT/Annum*
Plant & Machinery	**: ₹ 82 Lakhs**
Cost of Project	**: ₹ 361 Lakhs**
Rate of Return	**: 31%**
Break Even Point	**: 54%**

India Lead Acid Battery Market is projected to grow at a CAGR of over 9% during 2018-24.India lead acid battery market is projected to reach $ 7.6 billion by 2023. Anticipated growth in the market can be attributed to booming demand for automobiles, in addition to increasing focus of the government towards boosting the penetration of electric vehicles in the country. Entrepreneurs who invest in this project will be successful.

Start Manufacturing Business of

Micronutrient Fortified Energy Dense Food (Rice Based)

Micronutrient Fortified Energy Dense Food (Rice Based) is a revolutionary approach to nutrition that aims to combat micronutrient deficiencies while providing a high energy yield, utilizing rice as its fundamental ingredient. This category of food is specifically designed to address the nutritional gaps in diets, especially in regions where access to a wide variety of foods is limited. The fortification process involves the deliberate addition of vitamins and minerals such as iron, zinc, vitamin A, and several B vitamins to rice, which naturally has a high carbohydrate content but is often lacking in essential micronutrients.

Why Rice Makes an Ideal Base for Fortification

Rice stands out as a prime candidate for micronutrient fortification, primarily due to its widespread consumption and central role in the diets of billions of people worldwide. Its neutral taste and adaptable texture serve as an excellent foundation for incorporating essential vitamins and minerals without altering its fundamental characteristics that are beloved by many. This adaptability is key in ensuring that fortified rice can be seamlessly introduced into existing dietary patterns, encouraging acceptance and regular consumption among diverse populations. Another significant advantage of using rice as a base for fortification lies in its cultivation and distribution network. Rice is cultivated across various continents, under different climatic conditions, making it a universally available crop. This global presence is coupled with an established supply chain that can facilitate the efficient production and distribution of fortified rice, ensuring it reaches those in need without significant additional infrastructure investment. The existing rice distribution channels can be leveraged to make fortified rice accessible to a wide audience, particularly in regions where rice is a dietary staple and malnutrition rates are high.

Advantages

- Combats Micronutrient Deficiencies
- Improved Overall Health
- Cost-Effective and Sustainable
- Increased Energy Levels
- Improved Cognitive Function
- Reduced Risk of Chronic Diseases

Why to Start Micronutrient Fortified Energy Dense Food (Rice Based) Business?

Embarking on a business venture centered around Micronutrient Fortified Energy Dense Food (Rice Based) offers a unique intersection of meeting a global health need while tapping into a burgeoning market. The escalating awareness around health and nutrition, coupled with the urgent need to address malnutrition across various demographics, presents a fertile ground for ventures that prioritize societal welfare alongside profitability. Starting such a business not only aligns with the global push towards sustainable and nutritious food solutions but also positions the enterprise at the forefront of a significant nutritional advancement. The demand for fortified foods is on the rise, driven by an increasing consumer base that is more informed and concerned about their dietary choices and the nutritional quality of their food. This heightened consumer awareness translates into a growing market for fortified foods, including rice-based products, which are seen as both a preventive measure against nutrient deficiencies and a step towards improved overall health.

Conclusion

Embarking on a business that produces and distributes Micronutrient Fortified Energy Dense Food (Rice Based) is more than an entrepreneurial venture; it's a step towards contributing positively to global nutritional health. The process leverages existing agricultural and distribution systems, making it a scalable and sustainable model that can adapt as nutritional science and global health priorities evolve.

PROJECT COST ESTIMATE

CAPACITY

Micronutrient Fortified Energy Dense Food	: 100 MT Per Day
Plant & Machinery	: ₹ 13 Cr.
Cost of Project	: ₹ 35 Cr.
Rate of Return	: 28%
Break Even Point	: 57%

IV Cannula and Catheters Manufacturing Plant

Although the names cannula and catheter can be used to separate them, the activities of an IV catheter and a cannula are fairly similar. A cannula is more flexible, with a tapered diameter that allows it to be placed into veins of various sizes. A catheter can only be inserted into larger veins since it is less flexible and cannot be tapered. Although each device has its own set of capabilities, they all have the same goal: to administer fluids or medications directly into the bloodstream through an intravenous line.

The most frequent way for administering intravenous fluids, medicines, and nutritional supplements in the hospital or at home is with an IV catheter and cannula, sometimes known as an IV set or line. Fluids that are injected directly into your vein rather than into your muscles or soft tissues are referred to as intravenous (IV). A catheter and a cannula are used to make an IV set, also known as a line.

You might need one if you're getting chemotherapy or are about to have surgery that requires general anaesthetic. A cannula is normally inserted into one of three veins: the one just below the elbow in either arm, the neck vein, or the vein at the collarbone vein. One of the key factors driving the global expansion of the IV catheter market is the growing importance of intravenous (IV) therapy. IV therapy is an important part of the treatment of a variety of disorders, and it is used in both surgical and non-surgical patients. Another major factor driving the global IV catheter market is the rising number of chronic disease cases around the world.

PROJECT COST ESTIMATE

CAPACITY:

IV Cannula with Wings & with Injection Port	*: 75,000 Pcs. Per Day*
Catheters	*: 18,750 Pcs. Per Day*
Plant & Machinery	: ₹ 16 Cr
Cost of Project	: ₹ 27 Cr
Rate of Return	: 28%
Break Even Point	: 55%

SUBSCRIPTION RATE FOR INDIA - One Year ₹ 1060/- (with Delivery 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

DATE OF PUBLICATION : 19 EVERY MONTH