

Entrepreneur India



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₹ 20/-

An Industrial Monthly Journal on

INDUSTRIAL DEVELOPMENT, TECHNOLOGIES & PROJECT OPPORTUNITIES

Vol. 29

No. 10

October 2023

16 Pages

EDITOR :

AJAY KUMAR GUPTA
D.M.S., M.B.A.

Entrepreneurship Management

ASSOCIATE EDITOR

P. K. TRIPATHI
UDANT GUPTA

NIIR PROJECT CONSULTANCY SERVICES

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106 E, Kamla Nagar, Delhi-110 007 (India).

Tel. : 91-11- 23843955, 23845886, 23845654, Mob.: +91-9097075054, 8800733955

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► **Food Packaging Technology Handbook**
(Biodegradable Films, Materials, Polymers, Aseptic Packaging, Labels and Labelling, Packaging of Cashew Nuts, Dairy Products, Milk, Fish, Meat, Shrimps, Canning of Vegetables, Fruits with details of Machinery and Equipments)
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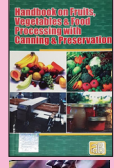
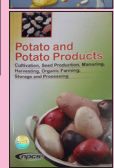
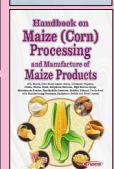
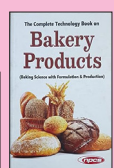
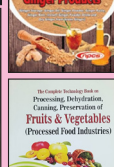
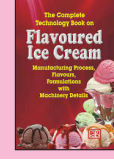
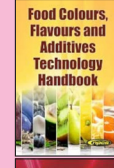
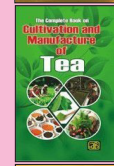
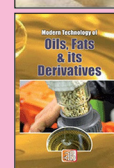
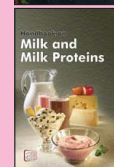
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► **Handbook on Fruits, Vegetables & Food Processing with Canning & Preservation** (3rd Edition)

► **Fruits, Vegetables, Corn and Oilseeds Processing Handbook**



Bakery Products (Cake & Filled Croissants Puffs)

Bakery holds an important place in food processing industry and is a traditional activity. Bakery products, due to high nutrient value and affordability, are an item of huge consumption. Due to the rapid population rise, the rising foreign influence, the emergence of a female working population and the fluctuating eating habits of people, they have gained popularity among people, contributing significantly to the growth trajectory of the bakery industry.

India is a major manufacturing house for bakery products and is the third-largest biscuit manufacturing country after USA and China. The Indian bakery market is valued at Rs. 3,295 crore and

out of this, bread and biscuits hold 82% of the share. India's organised bakery sector produces about 1.3 millions tonne of bakery products (out of three million tonnes) while the balance is produced by unorganised, small-scale local manufacturers. As a whole any entrepreneur can venture in this project without risk and earn profit.

Banana, Onion, Orange and Tomato Powder

The fruit & vegetable powders are specialized foods that have extremely high concentration of vitamins, minerals and phytonutrients. They make a great addition to smoothies and other recipes. Dehydrated vegetable and fruit powders are more practical than their fresh counterparts for food manufacturing. They have a longer shelf life and some powders like are packed with essential vitamins and minerals. While powders are high in demand, the problem is that most of them exist with bland flavors and colors. This is extraction, processing, and storage.

PROJECT COST ESTIMATE

CAPACITY:

Banana Powder	: 625 Kgs./Day
Onion Powder	: 300 Kgs./Day
Orange Powder	: 500 Kgs./Day
Tomato Powder	: 500 Kgs./Day
Plant & Machinery	: ₹ 98 Lakhs
Cost of Project	: ₹ 401 Lakhs
Rate of Return	: 25%
Break Even Point	: 65%

of applications in the food industry. The market is further expected to reach a volume of around 68 Thousand Tons by 2022. The market is further expected to reach a volume of around 68 Thousand Tons by 2022. As a whole there is a good scope for new entrepreneur to invest in this business.

Beer Plant

Beer contains approximately 90% water, and the importance of the liquor to final beer quality cannot be over-estimated. Historically a correlation was observed between the liquor composition of an area and the type of beer that the region could best brew. There are several steps in the brewing process, which include malting, milling, mashing, lautering, boiling, cooling, fermenting, maturation, filtering, and packaging. The production of malt beverages, or beer, comprises four main stages: brew house operations, fermentation, aging or secondary fermentation, and packaging.

The annual growth in the Indian beer market has been around 8% in the recent years, which compares well with the growth in China. But the Chinese market of 20 mn kl is over 25 times more than the Indian market of over 900,000 kilolitres. The Beer market in India will grow at a CAGR of 16.94 percent and 14.57 percent on the basis of revenue and volume. The Global Beer Market was valued at \$593,024 million in 2017, and is projected to reach \$685,354 million by 2025, growing at a CAGR of 1.8% from 2019 to 2025. As a whole there is a good scope for new entrepreneur to invest in this business.

PROJECT COST ESTIMATE

CAPACITY

Beer (650 ml size Bottle)	: 15385 Bottles/Day
Plant & Machinery	: ₹ 387 Lakhs
Cost of Project	: ₹ 1590 Lakhs
Rate of Return	: 29%
Break Even Point	: 47%

Cashew Nut Processing

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.

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.

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/

PROJECT COST ESTIMATE

CAPACITY

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

beverage applications on a household basis, which is driving the market for plain/salted cashews across the country.

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.

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.

Cheese Analogues

Cheese analogues (more widely known as cheese alternatives) are products used as culinary replacements for cheese. These include vegan cheeses as well as some dairy products, such as processed cheese or Kraft Singles that do not qualify as true cheeses. Cheese analogues used especially for pizza are produced by using rennet casein, acid casein, vegetable oil mixtures and other functional additive substances. A typical MCA formulation is determined as casein and caseinates 18-24%, vegetable oil 22-28%, starch 0-3%, ES 0.5-2, sweeteners and flavorants 0.5-3%, stabilizer 0-0.5%, acidifiers 0.2-0.36%, colourants 0.04%, preservatives 0.10% and water content 45-55%.

PROJECT COST ESTIMATE

CAPACITY

Analogues Cheese	: 1000 Kgs./Day
Plant & Machinery	: ₹ 36 Lakhs
Cost of Project	: ₹ 126 Lakhs
Rate of Return	: 26%
Break Even Point	: 62%

Cheese Analogues market is currently experiencing a growth in demand due to need of reduction in prices of cheese production. Cheese analogues are produced with the help of different types of methods and production techniques. Cheese analogue's produced with the help of individual constituent, soya oil and casein etc. are cheaper alternatives for milk dry matter. In India, a successful attempt has been made in developing MCA based on acid casein and vegetable oil/fat blend taking help of emulsifying salts and rennet casein and speciality fat. As a whole you can invest in this project without risk and earn profit.

Chilli Powder, Chilli Flakes & Chilli Oil

Spices are used in food and beverage preparation for flavour, colour, scent, and preservation. Spices can come from a variety of plant components, including the bark, buds, flowers, fruits, leaves, rhizomes, roots, seeds, stigmas and styles, and the entire plant tops. Plants having aromatic leaves are referred to be herbs, which is a subset of spice. Spices are frequently dried and used in their unprocessed but intact form.

Chilli, often known as red pepper, is a

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member of the solanaceae family and belongs to the genus capsicum. They're thought to have come from South America. Chillies are known by a variety of names, including chillies, chile, hot peppers, bell peppers, red peppers, pod peppers, cayenne peppers, paprika, pimento, and capsicum.

Chilli oil is typically a bright red colour. It's made with vegetable oil, soybean oil, or sesame oil, though olive oil or other oils can be used as well. Chilli oil is a spice made from vegetable oil and infused with chillipeppers. Chilli oil is made from dried chillis that have been preserved in oil.

Chilli flakes, red pepper flakes, and crushed red pepper flakes are all synonyms for the same thing: a condiment/spice consisting of dried and crushed whole chillies (seeds and all). Red pepper flakes are frequently made up of several distinct peppers. Chilli flakes, on the other hand, are usually a single type of pepper.

Chilli Powder: Chilli powder is a reddish-brown powdered spice combination. It contains cayenne pepper for heat, but it also contains spices like cumin, garlic powder, oregano, and paprika to give it the flavours of chilli con carne. Depending on the blend, one part cayenne to seven parts other spices is used.

Chillies are consumed and exported in huge quantities in India. It utilises over 6.2 million tonnes, or roughly 90% of the country's total output. Demand from the chilli powder-producing sector accounts for 30% of overall production in the country. This crop is exported in a variety of forms, including chilli powder, dried chillies, pickled chillies, and chilli oleoresins.

Chocolate

Chocolate is a delicious food that is produced from cocoa beans. Cocoa beans are a plant that grows in pods on trees. Cocoa pods contain cocoa seeds, which are removed from the pod, fermented, dried, roasted, and then ground into a paste called chocolate liquor or cocoa mass. The liquid from these processes are combined with sugar and other ingredients to create various types of chocolate products.

Some of the benefits of chocolate include improved cognitive function, reduced stress, increased creativity, and better mood, provide a healthy dose of antioxidants, and even act as an aphrodisiac.

PROJECT COST ESTIMATE

CAPACITY:

Milk Chocolate	: 720,000 MT Per Annum
Dark Chocolate	: 720,000 MT Per Annum
White Chocolate	: 720,000 MT Per Annum
Plant & Machinery	: ₹ 162 Lakhs
Cost of Project	: ₹ 496 Lakhs
Rate of Return	: 29 %
Break Even Point	: 58 %

PROJECT COST ESTIMATE

CAPACITY :

Chilli Powder	: 1,000 Kgs Per Day
Chilli Flakes	: 500 Kgs Per Day
Chilli Oil	: 50 Kgs Per Day
by Product Chilli	
Oleoresin	: 300 Kgs Per Day
Plant & Machinery	: ₹ 149 Lakhs
Cost of Project	: ₹ 334 Lakhs
Rate of Return	: 25%
Break Even Point	: 52%

The India chocolate market was worth USD1687.23 million in 2022 and is expected to grow at a CAGR of over 6.69% to reach USD2457.48 million by 2028, on account of growing population and shifting consumer tastes.

The global chocolate market reached a value of US\$ 151.9 Billion in 2021. Looking forward, IMARC Group expects the market to reach US\$ 177.8 Billion by 2027, exhibiting a CAGR of 2.6% during 2022-2027. Global demand for chocolate is expected to increase by nearly 50% in the next 10 years.

Chocolate Confectionery Plant

(Milk Chocolate, Dark Chocolate, White Chocolate, Orange & Tangy Flavour Toffee, Citric Flavoured Candies & Chocolate Wafers)

Chocolate is a product that requires complex procedures to produce. The process involves harvesting coca, refining coca to cocoa beans, and shipping the cocoa beans to the manufacturing factory for cleaning, coating and grinding. These cocoa beans will then be imported or exported to other countries and be transformed into different type of chocolate products.

PROJECT COST ESTIMATE

CAPACITY:

Milk Chocolate	: 1,600 Kgs. Per Day
Dark Chocolate	: 1,600 Kgs. Per Day
White Chocolate	: 1,600 Kgs. Per Day
Orange & Tangy Flavour Toffee	: 1,200 Kgs. Per Day
Citric Flavoured Candies	: 1,200 Kgs. Per Day
Chocolate Wafers	: 1,600 Kgs. Per Day
Plant & Machinery	: ₹ 249 Lakhs
Cost of Project	: ₹ 671 Lakhs
Rate of Return	: 29%
Break Even Point	: 54%

Confectionary products include a wide variety of food items, like – milk chocolate, white chocolate, citric flavor candies, orange flavor candies, tangy flavor candies, hard sweets, fudge, toffee, milk tablet, liquorices, jelly candies, marshmallow peeps, marzipan sweets, divinity, chewing gum, etc.

Growing at a compounded annual growth rate (CAGR) of about 25% Indian chocolate industry's size is presently worth about 50 bn and is likely to cross Rs. 75 bn mark in the next couple of years while globally the chocolate industry is worth over USD 85 bn. Besides, India's per capita chocolate consumption is having at about 100 gm& urban centres comprise 35% of the chocolate consumption in the country. The world chocolate market is expected to be worth about USD 131.7 bn. India chocolate market projected to grow at a CAGR of over 16% to reach \$ 3.3 billion by 2023 with the country currently representing one of the world's fastest growing markets for chocolates. Entrepreneurs who invest in this project will be successful.

Corn Flakes

Corn flakes being one of most nutritious foods and is consumed as breakfast food not only in India but-elsewhere in the world. Basically, it is prepared from maize; this is the main raw material. Flavours, like sugar or salt, are also added. Maize, the main raw material, is itself a corn grain. India is predominantly an agricultural country. Due to the progressive increase in farm produce a need has been felt to develop more agro based food-processing industries to make gainful utilization of the raw material resources and to provide remunerative prices to the growers. Maize is one of the important commercial food-grains grown abundantly in our country.

The global breakfast cereal market size was valued at USD 37.44 billion in 2016. It is projected to expand at a CAGR of 4.3% from 2017 to 2025. Breakfast cereals are available in different variety, but the essential ingredient is grains. Commonly used grains include oats, rice, barley, wheat, and corn. Few hot cereals such as oatmeal does not comprise any other ingredient while other variants may include coloring agents, yeast, salts, minerals, vitamins, sweeteners, and food preservatives.

Food habits have taken a healthy turn since then, although not at the pace Kellogg would have liked, and the acceptance of cereals, cornflakes, oats and muesli has improved. Kellogg has tried every trick in the bag with smaller and more affordable packs, variants for evening meals and niche products such as Special K cornflakes for women. Of the Rs 400-crore cornflakes market (growing at 20 per cent per annum), it now commands around 70 per cent. As a whole any entrepreneur can venture in this project without risk and earn profit.

PROJECT COST ESTIMATE

CAPACITY

Corn Flakes	: 5 MT/ Day
Plant & Machinery	: ₹ 151 Lakhs
Cost of Project	: ₹ 426 Lakhs
Rate of Return	: 27%
Break Even Point	: 61%

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.

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

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

PROJECT COST ESTIMATE

CAPACITY:

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

Craft Beer

Craft beer is a term used to describe a beer that has been made in a traditional and independent fashion. It is usually made in smaller batches with high quality ingredients, and often has a distinctive flavor profile. Unlike many mass-produced beers, craft beer often uses a variety of malted grains, hops, and other ingredients such as spices and fruits, giving it a unique character and taste. Craft brewers also experiment with different styles, including lagers, stouts, porters, sours, IPAs, and many others.

Indian Market Outlook

In recent years, craft beer has become increasingly popular among Indians. Many bars and restaurants across the country now offer craft beer on their menus, and there are numerous craft beer festivals taking place each year. In addition, craft beer clubs have sprung up in major cities, providing an opportunity for enthusiasts to sample new beers. The craft beer industry in India is still in its infancy and there is a lot of potential for growth. With the right strategies and investments, craft brewers can tap into this lucrative market and expand their reach to new customers.

Global Market Outlook

Craft Beer Market size was valued at USD 234.34 Billion in 2021 and is projected to reach USD 1132.91 Billion by 2030, growing at a CAGR of 19.13% from 2023 to 2030. Beer has always been the oldest and most widely consumed alcoholic beverage around the world and has several health benefits if consumed

PROJECT COST ESTIMATE

CAPACITY:

<i>Craft Beer</i>	
<i>(Bottles 650 ml Size)</i>	: 3,847 Bottles Per Day
<i>Craft Beer</i>	
<i>(Al. Cans 500 ml Size)</i>	: 5,000 Cans Per Day
Plant & Machinery	: ₹ 780 Lakhs
Cost of Project	: ₹ 2007 Lakhs
Rate of Return	: 27 %
Break Even Point	: 49 %

moderately; it contains iron, calcium, vitamin B, and fiber. Advancements in beer brewing technologies have resulted in the emergence of wide-ranging products in the market. The aforementioned product is one of the most consumed variants in the spectrum and has gained immense popularity in recent years.

Creamy Peanut Butter

Creamy peanut butter is a food paste made from ground nut or peanut. It consists essentially of cleaned, graded, blanched, roasted and crushed groundnuts containing about 45 percent of oil and over 25 percent of proteins, being thus a highly nutritive food.

Uses and Applications

Peanut butter is a versatile food that can be used in a variety of ways. It can be spread on toast, used as a dip for fruit, or even added to smoothies for a boost of protein. Plus, it's a great source of healthy fats and vitamins.

PROJECT COST ESTIMATE

CAPACITY

Creamy Peanut Butter	: 10,000 Kgs Per Day
Plant & Machinery	: ₹ 128 Lakhs
Cost of Project	: ₹ 1038 Lakhs
Rate of Return	: 30%
Break Even Point	: 44%

Indian Market

The Peanut Butter Market growth at a CAGR of 6.60% & expected USD 7.19 billion by 2029. The market is further estimated to witness a healthy growth in the forecast period of 2022-2027.

Dairy Farming & Dairy Products (Milk, Butter, Ghee, Paneer & Curd)

Dairy farming is a type of agriculture that involves the long-term production of milk that is then processed and sold as a dairy product. Small/marginal farmers and agricultural labourers rely on dairying for supplemental income. Agriculture provides roughly 33 percent of India's gross domestic product, and agriculture employs 66 percent of the country's economically active people. Livestock products are anticipated to account for 21% of the total agriculture industry.

India produces the most milk in the world and is the major exporter of skimmed milk powder, but it exports very few additional milk products. India may become a net importer of dairy goods in the future due to rising domestic demand for dairy products and a substantial demand-supply gap.

Milk is defined as the whole, fresh, clean lacteal secretion obtained by complete milking of one or more healthy milch animals, excluding milk obtained within 15 days before and 3 days after calving or such periods as may be necessary to render the

PROJECT COST ESTIMATE

CAPACITY:

<i>A2 Milk</i>	: 3,650 Kgs Per Day
<i>A2 Butter</i>	: 57 Kgs Per Day
<i>A2 Ghee</i>	: 50 Kgs Per Day
<i>A2 Paneer</i>	: 178.50 Kgs Per Day
<i>A2 Curd</i>	: 1,244 Kgs Per Day
<i>Manure</i>	: 7,000 Kgs Per Day
Plant & Machinery	: ₹ 337 Lakhs
Cost of Project	: ₹ 1965 Lakhs
Rate of Return	: 26%
Break Even Point	: 42%

milk practically colostrum-free and containing the minimum prescribed percentage of milk fats and S-N-F.

Butter is a dairy product created from the solid parts of milk (fat and protein). One of the most concentrated forms of fluid milk is butter. To make one kilogramme of butter, you'll need twenty litres of whole milk.

Ghee is a sort of clarified butter made mostly from cow's milk. Because the water and milk solids have been removed, it is higher in fat than butter. When opposed to butter, ghee has a greater smoke point, thus it doesn't burn as quickly.

Paneer is a popular Indian indigenous dairy product that is akin to an unripe Ned kind of soft cheese that is used in a range of culinary meals and snacks.

Curd is a solid rather than a liquid product. Proteins make up a large portion of the dry matter in curd, although it also contains carbs, lipids, and minerals.

Dairy farming has evolved from a traditional family-run enterprise to a highly structured industry with technology specialities at every step of the process. Dairy farming machinery has advanced dramatically, allowing contemporary dairy farms to manage hundreds of dairy cows and buffaloes.

Fruits & Vegetables Powder (Tomato, Onion, Mango, Pomegranate and Papaya Powder)

Tomato powder is a powder derived from tomato. It is made by turning fresh tomatoes into a slurry and further spray drying the slurry, creating a fine powder of uniform consistency. It is used to add tomato flavor in various dishes, has increased its application in various food processors. On the basis of application, tomato powder is segmented such as seasoning and savories, soup mixes, snack foods, curries and gravies, baby foods and others.

Onion powder is a processed form of dehydrated onion that can add the same flavor as fresh onions in a convenient manner. As a flavoring agent, onion powder is currently being used in a number of food and non-food products like- snacks, sauces, salads, soups, gravies, appetizers, seafood, meats, etc.

Mango powder is a fruity spice powder made from dried unripe green mangoes and is used as a

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citrusy seasoning. It is produced in India, and is used to flavor foods and add the nutritional benefits of mangoes when the fresh fruit is out of season. India is known for its exotic spices since the ancient times. These spices are mostly used for flavoring or tempering cooked food.

Pomegranate Powder is made of fresh pomegranate juices extracted by spray dried. In the production process strictly abide by the guidelines ensuring the food safety and quality. It is widely used for pharmaceutical industry, health care products, baby and infant products, snacks, solid beverage, ice-cream, all kinds of milk tea.

PROJECT COST ESTIMATE

CAPACITY:

Tomato Powder	: 90,000 Kgs Per Annum
Onion Powder	: 36,000 Kgs Per Annum
Mango Powder	: 120,000 Kgs Per Annum
Pomegranate Powder	: 45,000 Kgs Per Annum
Papaya Powder	: 90,000 Kgs per Annum
Plant & Machinery	: ₹ 69 Lakhs
Cost of Project	: ₹ 417 Lakhs
Rate of Return	: 27%
Break Even Point	: 57%

The papaya fruit is a large berry about 15–45 cm (5.9–17.7 in) long and 10–30 cm (3.9–11.8 in) in diameter. It is ripe when it feels soft (as soft as a ripe avocado or a bit softer) and its skin has attained an amber to orange hue. Papayas are a soft, fleshy fruit that can be used in a wide variety of culinary ways. Here we will explore more on the health benefits, uses, how to incorporate more of them into diet, and what nutritional value papayas have. Entrepreneurs who invest in this project will be successful.

Dehydrated Fruits

Dehydration is a process by which shelf life of the fruits can be extended by evaporating water while preserving the taste. Dehydrated products can be used during off season and the fresh produce of far off places can be saved from decomposition due to severe weather conditions and inefficient transport facilities. It is one of the oldest methods of preserving fruit is removes moisture stops the growth of bacteria, yeasts & molds that normally spoil fruit.

The Indian dried fruits industry size is currently pegged at Rs 15,000 crore (4,50,000 tons approx.). By 2020, this is likely to reach almost a million tonnes in volume, leading to an industry size exceeding Rs 30,000 crore. As a whole any entrepreneur can venture in this project without risk and earn profit.

PROJECT COST ESTIMATE

CAPACITY

Dehydrated Fruits	: 400 Kgs./Day
Plant & Machinery	: ₹ 1084 Lakhs
Cost of Project	: ₹ 1425 Lakhs
Rate of Return	: 26%
Break Even Point	: 45%

Dal Mill (Roasted Gram Split, Dal & Chana)

India is bound to be global leader in terms of production and consumer of pulses. The various pulses are part of the normal diet of all vegetarians and are also used frequently by non-vegetarians too. They are the main sources of protein. The important dals in the country are Chana, Moong, Urad, Moth, turdal and Masoor, Matar etc. Pulses being the most common diet part of Indian families, need to be given the due importance in the form of production of pulse grains in the farms is also likely to see a break through.

PROJECT COST ESTIMATE

CAPACITY:

Annagiri Roasted Gram Split	: 6.5 MT Per Day
Mosambi Roasted Gram Split	: 6.5 MT Per Day
Radhe Roasted Gram Split	: 6.5 MT Per Day
Mahabaleshar Roasted Gram Split	: 6.5 MT Per Day
Kala Chana	: 6.5 MT Per Day
Chana Dal	: 7.5 MT Per Day
Plant & Machinery	: ₹ 138 Lakhs
Cost of Project	: ₹ 909 Lakhs
Rate of Return	: 27%
Break Even Point	: 53%

India pulses market reached a volume of 27.5 Million Tons in 2019. A significant share of the Indian population are vegetarians and pulses represent the main source of proteins in their diets. Besides proteins, pulses are also a good source of carbohydrates, vitamins, minerals, fatty acids, dietary fibres, etc. Moreover, India's large consumer base also represents a major driver for the pulses market. From a population of 1.3 Billion in 2018, the Indian population is expected to exceed 1.5 Billion by 2030.

Dehydrated Onion

Onion is one of the most important commercial vegetable crops grown in India. Both immature and mature bulbs are used as vegetable and condiment. It contains vitamin B and a trace of

vitamin C and also traces of iron and calcium. The outstanding characteristic of onion is its pungency, which is due to a volatile oil known as alkyl-propyl disulphide.

The global market for dehydrated onions registered the revenue worth US\$ 950 MN in 2017, which is likely to reach in excess of US\$ 1,500 MN by the end of 2028. Future Market Insights expects the dehydrated onions market to observe stable growth at a promising CAGR of 4.8% over the 10-year assessment period, 2018-2028. Thus, due to demand it is best to invest in this project.

Dehydrated Vegetables, Mushroom and Soup

Dehydrating vegetables once dehydrated, they take very little room to store. Nutrients aren't destroyed as they are with canning. Nothing is spoiled. And dehydrated vegetables can store for years. Most vegetables can be dehydrated; some require blanching first, but for many vegetables,

PROJECT COST ESTIMATE

CAPACITY:

Dehydrated Beet Root (400 gms Size)	: 525 Packs/Day
Dehydrated Carrot (400 gms Size)	: 450 Packs/Day
Dehydrated Green Chilli (400 gms Size)	: 240 Packs/Day
Dehydrated Onion (400 gms Size)	: 300 Packs/Day
Dehydrated Cabbage (400 gms Size)	: 300 Packs/Day
Dehydrated Spinich (400 gms Size)	: 300 Packs/Day
Dehydrated Mushrooms (400 gms Size)	: 300 Packs/Day
Soups (400 gms Size)	: 715 Packs/Day
Total	: 3130 Packs/Day
Plant & Machinery	: ₹ 102 Lakhs
Cost of Project	: ₹ 394 Lakhs
Rate of Return	: 27%
Break Even Point	: 62%

prep is as simple as chopping or slicing. Dehydration is the process of removing water or moisture from a food product.

Removing moisture from foods makes them smaller and lighter. The dried and preserved vegetables market of India is expected to grow at a CAGR of 16% by the year 2020. The supportive agro-climatic conditions, potential domestic market, cost competitiveness, and government support are some of the key factors which will drive the growth of this industry. The rising demand of seasonal vegetables across the year is supporting the growth of Dehydrated Vegetable market during the forecast period. Entrepreneurs who invest in this project will be successful.

PROJECT COST ESTIMATE

CAPACITY:

Dehydrated Onion Sliced/Chopped	: 50 MT / Day
Cattle Feed as By Product	: 35 MT / Day
Plant & Machinery	: ₹ 2976 Lakhs
Cost of Project	: ₹ 5116 Lakhs
Rate of Return	: 27%
Break Even Point	: 43%

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Dry Fruits Processing (Cashew, Almond, Walnut, Raisins (Kishmish/ Munnakka) and Figs)

Cashew nuts are a popular snack and food source. Cashews, unlike other oily tree nuts, contain starch to about 10% of their weight. This makes them more effective than other nuts in thickening water-based dishes such as soups, meat stews, and some Indian milk-based desserts. The almond fruit measures 3.5–6 cm (1–2 in) long. In botanical terms, it is not a nut, but a drupe. The outer covering or exocarp, fleshy in other members of Prunus such as the plum and cherry, is instead a thick, leathery, grey-green coat (with a downy exterior), called the hull. A raisin is a dried grape. Raisins are produced in many regions of the world and may be eaten raw or used in cooking, baking, and brewing. In the United Kingdom, Ireland, New Zealand and Australia, the word "raisin" is reserved for the dark-colored dried large grape, with "sultana" being a golden-colored dried grape, and "currant" being a dried small Black Corinth seedless grape. Figs are a delicious fruit like treat and popularly known as "Anjeer" in India. Fig fruit is one of the ancient fruits in the world. The fig fruit is unique, unlike most 'fruits' in which the structure is matured ovary tissue, and the fig's edible structure is actually a stem tissue. Walnuts are rich source of a number of important nutrients that have a very positive effect on the human health.

PROJECT COST ESTIMATE

CAPACITY :	
Cashew Nut (Tin Pack 10 Kgs & Poly Packs 1 Kg)	: 1050 MT/Annum
Walnut (Tin Pack 10 Kgs & Poly Packs 1 Kg)	: 300 MT/Annum
Almond (Badam) (Tin Pack 10 Kgs & Poly Packs 1 Kg)	: 750 MT/Annum
Raisins (Tin Pack 10 Kgs & Poly Packs 1 Kg)	: 600 MT/Annum
Figs (Anjeer) (Tin Pack 10 Kgs & Poly Packs 1 Kg)	: 600 MT/Annum
Plant & Machinery	: ₹ 957 Lakhs
Cost of Project	: ₹ 1597 Lakhs
Rate of Return	: 27%
Break Even Point	: 53%

Nuts and dried fruits in India offer a unique opportunity to meet the needs of a consumer who is looking to adopt a new wellness life style without having to forego traditional values - a consumer who is increasingly concerned with health but is not willing to compromise on taste. The nut and dried fruit industry in India is currently pegged at INR 15,000 crores (~ USD 2 billion) and is estimated to grow to INR 30,000 crores (~ USD 4 billion).

Edible Oil Refinery from Crude Palm Oil

Palm Nuts are an irresistible, nutritious and sweet tasting natural food. They provide good levels of Vitamin E (which enhances the immune system) and magnesium (which aids in nutrient delivery). Palm Nuts should be stored frozen. The palm kernel is the edible seed of the oil palm fruit. The fruit yields two distinct oils: palm oil derived from the outer parts of the fruit, and palm kernel oil derived from the kernel. Palm kernel cake is most commonly produced by economical screw press, less frequently via more expensive solvent extraction.

Palm oil market size in India was valued at USD 5.16 billion in 2015. India palm oil market size is anticipated to reach USD 13.1 billion by 2025, at a CAGR of 15.4%. Increasing demand for edible oils owing to the burgeoning population and improving economic conditions is anticipated to remain the key growth driving factor over the forecast period. This facilitates the development of new technologies and ensures a high quality product.

PROJECT COST ESTIMATE CAPACITY

Edible Refined Oil from Crude Palm Oil	: 200 MT / Day
Plant & Machinery	: ₹ 2709 Lakhs
Cost of Project	: ₹ 8322 Lakhs
Rate of Return	: 28%
Break Even Point	: 49%

Eggshell Powder

The eggshell membrane powder market is expected to grow at a CAGR of ~13% during the forecast period 2019-2029. The pet food supplement industry is an emerging industry, as consumers are becoming fonder of their pets and take proper care of their nutrition. In order to ensure that their pets get adequate nutrients, consumers prefer pet food supplements that are organic and natural, to avoid any adverse effects on pets. Egg membrane protein powder is mainly used in pet supplements to reduce bone disorders and comfort them in case of seasonal allergies. Hence, this evolving demand for pet supplements is driving the global egg membrane protein powder market. Thus, due to demand it is best to invest in this project.

PROJECT COST ESTIMATE CAPACITY

Eggshell Powder	: 2 MT / Day
Plant & Machinery	: ₹ 11 Lakhs
Cost of Project	: ₹ 42 Lakhs
Rate of Return	: 30%
Break Even Point	: 79%

Energy Bar

Energy bars may contain high levels of sugar and sometimes are called "candy bars". Energy bars, which contain some form of milk-

derived or plant-based protein like whey, hemp, pea or rice protein. Energy bars are the fuel you need for your busy life. These bars feature 2:1 carbs to protein ratio for energy and recovery from your active lifestyle. They provide carbs and protein.

The India Energy bar market is expected to reach

PROJECT COST ESTIMATE CAPACITY

Energy Bar (Each Bar 50 gms)	: 40000 Pcs./Day
Plant & Machinery	: ₹ 183 Lakhs
Cost of Project	: ₹ 520 Lakhs
Rate of Return	: 31%
Break Even Point	: 57%

USD 99.23 million by 2023 witnessing a double digit CAGR during the forecast period 2018-2023. The India Energy bar sale has recorded a historic CAGR of 14.1 during the past five year. Energy bar holds the largest share of 60% in Indian snack bar market, which is growing at a faster rate. Thus, due to demand it is best to invest in this project.

Freeze Dried Fruits & Vegetables (Dry Banana, Mango, Custurd Apple, Beetroot, Sapota, Dragon Fruit, Jamun and Green Peas)

Freeze-drying, technically known as Lyophilization, is a process of sublimation where water molecules in a solid phase are directly converted to vapor phase. Since Lyophilization is the most complex and expensive form of dehydration, its use is usually restricted to delicate and heat-sensitive high value materials.

Global Freeze Dried Fruits and Vegetables Market is expected to surpass USD 60 billion by 2025. Increasing popularity of packaged food will be a major factor behind the freeze dried fruits and vegetables market growth. The product is extensively used in preparing many packaged food items such as soups, juices, ready-to-eat meals, etc. The advantages of the product over fresh fruits and vegetables will augment the industry growth in the forecast years. Thus, due to demand it is best to invest in this project.

PROJECT COST ESTIMATE

CAPACITY:	
Freeze Dried Raw Banana	: 19 Kgs / Day
Freeze Dried Mango	: 19 Kgs / Day
Freeze Dried Custurd Apple	: 19 Kgs / Day
Freeze Dried Beetroot	: 19 Kgs / Day
Freeze Dried Sapot	: 18.5 Kgs / Day
Freeze Dried Dragon Fruit	: 18.5 Kgs / Day
Freeze Dried Jamun	: 18.5 Kgs / Day
Freeze Dried Green Peas	: 18.5 Kgs / Day
Plant & Machinery	: ₹ 95 Lakhs
Cost of Project	: ₹ 199 Lakhs
Rate of Return	: 24%
Break Even Point	: 60%

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Ginger Oil & Ginger Powder

Ginger oil, also known as ginger essence, is a fragrant oil extracted from ginger. It has a spicy, warm scent that is slightly sweet and citrusy. The use of this type of oil dates back to ancient China and India where it was used for medicinal purposes.

Uses and Application

Ginger has been used in traditional medicine for thousands of years. Gaining popularity for its use in curries, it is also used in Ayurvedic and Chinese medicines, as well as other herbal remedies. From supporting healthy immune function to reducing risk factors associated with stroke and heart attack, many studies have shown that ginger supports a variety of healthy functions in our body. It is also used to ease the symptoms of migraines, nausea and motion sickness.

Indian Market Outlook

Ginger is a spice that has been used for centuries as both a cooking ingredient and for medicinal purposes. It is primarily cultivated in India, where it has been grown since the 8th century AD. Although ginger oil can be found in grocery stores around the world, India remains the largest producer.

PROJECT COST ESTIMATE

CAPACITY:

Ginger Oil	: 60,000 Kg. Per Annum
Ginger Powder	: 1,44,000 Kg. Per Annum
Plant & Machinery	: ₹ 381 Lakhs
Cost of Project	: ₹ 528 Lakhs
Rate of Return	: 28%
Break Even Point	: 66%

Global market outlook

The global ginger processing market reached a value of US\$ 387.5 million in 2021. Looking forward, the market is projected to reach US\$ 767.2 million by 2027, exhibiting a CAGR of 11.75% during 2022-2027. As the major provincial ginger markets worldwide, North America, the Middle East and Africa (MEA), Asia Pacific, Europe, and Latin America have emerged. For ginger, the Asia Pacific region has emerged as the most enticing regional market and taken the lead in the global market.

Green Peas Processing and Preservation

The pea (*Pisumsativum*) is one of the oldest vegetable crops to be cultivated. Its culture reaches so far back into the past that the wild ancestor is unknown to us. The crop belongs to the legume family (*Leguminosae*) and is one of the most important vegetables in India. Short stalked green pods which appear during late winter or spring. The pods measure about 2-3 inches long, swollen or compressed, straight or slightly curved, filled with single row of 2-10 light green color

PROJECT COST ESTIMATE

CAPACITY:

Dehydrated Green Peas	: 4,000 Kgs. /Day
By Product Pea Hull	: 4,750 Kgs. /Day
Plant & Machinery	: ₹ 302 Lakhs
Cost of Project	: ₹ 558 Lakhs
Rate of Return	: 25%
Break Even Point	: 51%

smooth edible seeds. Freeze drying is a relatively recent method of preserving food. It involves freezing the food, then removing almost all the moisture in a vacuum chamber, and finally sealing the food in an airtight container.

Freeze-dried food has many advantages. Because as much as 98% of the water content has been removed, the food is extremely lightweight, which significantly reduces the cost of shipping.

Indians generally prefer green and fresh vegetables but they are available only during seasons. India is the world's 2nd largest producer of food next to China, and has the potential of being the biggest within the food and agricultural sector. "India Frozen Food Market By Product Type, By Organized Vs Unorganized, Competition Forecast and Opportunities, 2011-2021", frozen food market in India is projected to register a CAGR of 15% during 2016-2021. As a whole you can invest in this project without risk and earn profit.

Groundnut Oil

Groundnut oil is a vegetable oil derived from groundnuts. It is also called peanut oil. The oil has a strong peanut flavor and aroma. It is often used in American, Chinese, South Asian and Southeast Asian cuisine, both for general cooking, and in the case of roasted oil, for added flavor.

However, the high production cost of peanut oil is a major factor expected to restrain growth of the target market in the near future. In addition, high consumption of peanut oil results in various side effects in human health which is one of the major factors expected to hamper growth of the target market to a certain extent. Global peanut oil market is set to witness a steady CAGR of 4.25% in the forecast period of 2019- 2026.

PROJECT COST ESTIMATE

CAPACITY:

Groundnut Oil (1 Ltr Pack each)	: 35,178 Packs / Day
Groundnut Oil (5 Ltrs Pack each)	: 3,015 Packs / Day
Groundnut Cake (100 Kgs Bag each)	: 637.5 Bags / Day
Plant & Machinery	: ₹ 318 Lakhs
Cost of Project	: ₹ 838 Lakhs
Rate of Return	: 30%
Break Even Point	: 65%

Cooking oil is an important and essential item in the FMCG sector. An average Indian consumes 15 Kg of oil in a year. Compared to other oils like sunflower oil, cottonseed oil, and soy oil, groundnut oil has more nutritional value. In addition to cooking, groundnut oil is used in the bakery and confectionery industry. Groundnut oil is used in soaps, salad oils, mayonnaise,

etc. Groundnut oil is expensive compared to other oils. It has more vitamins, minerals, nutritional value and low levels of cholesterol. It is also suitable edible oil for Indian cooking.

In India, groundnut is cultivated in 5.8 million hectares. Gujarat is the highest producer of groundnut oil in India. Groundnut seed contains 50-55% of the oil. It is one of the best oil seeds to extract oil from. As a whole any entrepreneur can venture in this project without risk and earn profit.

Gourmet Popcorns

The global popcorn market is projected to reach \$15 billion by 2023, registering a CAGR of 7.6 percent from 2017 to 2023, with ready-to-eat leading the segment. While established FMCG businesses have either launched a popcorn product or are looking to launch one, startups too have built ready-to-eat or ready-to-cook popcorn brands

PROJECT COST ESTIMATE

CAPACITY:

Chilli Powder	: 1,000 Kgs Per Day
Chilli Flakes	: 500 Kgs Per Day
Chilli Oil	: 50 Kgs Per Day
by Product Chilli	
Oleoresin	: 300 Kgs Per Day
Plant & Machinery	: ₹ 149 Lakhs
Cost of Project	: ₹ 334 Lakhs
Rate of Return	: 25%
Break Even Point	: 52%

in the domain. It would be futile to undermine the potential this industry has. Entrepreneurs who invest in this project will be successful.

Instant Noodles

Instant noodles are mostly fried noodles which are made of flour, water, alkaline salt and other additives. Instant noodles are high in carbohydrates but low in fiber, vitamins and minerals. Instant noodles are sold in a precooked and dried noodle block, with flavoring powder and/or seasoning oil.

The Indian instant noodles market was valued at USD 1438.04 million in 2017 is expected to register a CAGR of 5.6 % during the forecast period (2018-2023). This growth is caused due to the increasing youth population, increasing disposable income, higher brand consciousness, and changing consumer preferences. This facilitates the development of new technologies and ensures a high quality product.

PROJECT COST ESTIMATE

CAPACITY

Instant Noodles (70 gms Pouch)	: 71440 Pkts./Day
Plant & Machinery	: ₹ 189 Lakhs
Cost of Project	: ₹ 568 Lakhs
Rate of Return	: 29%
Break Even Point	: 46%

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Most Growing Industries to Start a New Business

**Liquor from Mahua
(Wine and Hard Liquor)**

Mahua is a tropical tree native to the Indian subcontinent and Southeast Asia. It is scientifically known as *Madhuca longifolia* and is a member of the family Sapotaceae. The tree grows up to a height of 20-30 meters and bears yellow flowers that are fragrant and attractive to bees. The Mahua tree is considered sacred by many indigenous tribes in India and is often referred to as "the tree of life".

The process of making liquor from Mahua is quite interesting. It starts with the collection of Mahua flowers. These flowers are plucked, cleaned, and allowed to dry in the sun for a few days. Once they are

dried, they are then stored in a cool and dry place until the next step. The next step involves the fermentation of the Mahua flowers. For this, the flowers are crushed and mixed with water to make a slurry. This slurry is then transferred to earthenware jars, which are left to ferment for a few days. During the fermentation process, natural yeast present in the flowers converts the sugars in the slurry into alcohol. The length of the fermentation process determines the alcohol content in the final product.

The future of Mahua liquor market looks promising, and it has the potential to become a mainstream alcoholic beverage. With its unique taste, affordability, and government support, it is expected to see continued growth in the years to come.

Invert Sugar Syrup

Invert sugar (syrup) is an edible mixture of sugars made by heating up table sugar (sucrose) with water. As invert sugar is thought to be sweeter than table sugar and foods that contain it hold in moisture and crystallize less easily, bakers, who call it invert syrup, may use it more than other sweeteners. Invert sugar (C12H24O12) is a mixture of glucose and fructose obtained by the hydrolysis of sucrose. Cane sugar comes from sugarcane. Invert Syrup contains equal proportions of the invert (reducing) sugars: glucose and fructose. It has wide application and is particularly useful where high concentrations of invert sugars

**PROJECT COST ESTIMATE
CAPACITY**

Invert Sugar Syrup	: 20 MT/Day
Plant & Machinery	: ₹ 397 Lakhs
Cost of Project	: ₹ 733 Lakhs
Rate of Return	: 27%
Break Even Point	: 58%

are required. The requirement for invert sugar syrup has been on the rise in India. There is a gradual realization among both bakers

and honey makers that it is almost impossible to achieve the same quality of invert sugar using in-house production. The global liquid sugar market is segmented based on type, application, and geography. The inverted sugar syrup segment is expected to grow at a faster rate comparatively due to its extensive application in non-alcoholic refreshing beverages. As a whole you can invest in this project without risk and earn profit.

Mayonnaise

Mayonnaise is one of the most popular types of sauces in the world. It is a semi-solid oil-in-water emulsion produced as a mixture of egg yolk, vinegar, oil and some other ingredients. The color of mayonnaise varies, but it is often white, cream color, or pale yellow. It may range in texture from a light cream to a thick gel. It is served with sausages, burger patties, chips and salads as food flavouring and to stimulate the appetite for a

PROJECT COST ESTIMATE

CAPACITY:

Wine (750 ml Size)	: 4,000,000 Bottles Per Annum
Whiskey (375 ml Size)	: 4,000,000 Bottles Per Annum
Brandy (375 ml Size)	: 4,000,000 Bottles Per Annum
Plant & Machinery	: ₹ 782 Lakhs
Cost of Project	: ₹ 1880 Lakhs
Rate of Return	: 28 %
Break Even Point	: 56 %

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starter meal. The oil content in mayonnaise is more than 60% and this contributes to lubricity and the creamy texture of the product.

Indian Mayonnaise & Salad Dressing Market is growing with a CAGR of 21.54% from last five years and is projected to get more than thrice by the 2021 due to growing trend of international food, brand awareness, increasing disposable income, growing demand in middle class people and increasing International food chains. The unorganized market in this industry is lagging compared to organized industry; as institutional food players focus on quality mayonnaise and salad dressing rather than prices so that they only consume the branded mayonnaise and salad dressing variants. As a whole entrepreneur can venture in this field will be successful.

Lemon Processing Unit -Lemon Juice Dry Powder, Lemon Peel Oil Extraction Steam Base, Lemon Pectin

Lemon processing is the process of transforming raw lemons into useful products for consumption. The most common forms of lemon processing involve juice extraction, dry powder manufacturing, lemon peel oil extraction, and pectin production.

Juice extraction involves the removal of juice from the lemon pulp and rind. This is a fairly simple process and can be done using hand or automated juicers. The extracted juice can then be used in a variety of ways such as making sauces, dressings, drinks, and other food items.

Dry powder manufacturing involves removing the water content from the lemon juice and then grinding it down into a fine powder. This powder can then be used as a seasoning for foods, as an ingredient for baking goods, or as a thickener for sauces and dressings.

Lemon peel oil extraction is another form of lemon processing which involves extracting the oil from the lemon peel. This oil can then be used for medicinal

PROJECT COST ESTIMATE CAPACITY

Mayonnaise	: 500 Kgs/Day
Plant & Machinery	: ₹ 14 Lakhs
Cost of Project	: ₹ 60 Lakhs
Rate of Return	: 26%
Break Even Point	: 62%

purposes, aromatherapy, and as a flavoring agent in food products.

The global market for lemon processing was estimated to be worth \$2.2 billion in 2020 and is expected to grow at a compound annual growth rate (CAGR) of 7.6 percent between 2021 and 2027. The lemon processing market is a rapidly growing sector of the food and beverage industry. With the rising demand for natural ingredients, especially those with unique flavor and health benefits, manufacturers are turning to lemons as an ingredient. As such, the market has seen significant growth over the past few years.

Liquid Glucose from Broken Rice

Liquid Glucose is usually manufactured by subjecting starch to high temperature in the presence of acid. However, Liquid Glucose of same Dextrose Equivalent can be manufactured by enzymatic conversion but the spectrum of saccharides will differ and so also the properties, in comparison to acid converted Liquid Glucose. Liquid Glucose is an aqueous solution of nutritive saccharide obtained by starch hydrolysis, by using Corn and Rice as raw material, which is purified and concentrated to required solids. It is usually odorless and clear yellow colored viscous liquid sweet syrup which is processed and stored under hygienic conditions.

Broken rice is the by-product of rice mill. It has various uses out of which one use is to prepare liquid glucose from

broken rice. About 90% of the liquid glucose produced in India is consumed by the confectionery industry. Its preparation of sugar candy. It standard confectionery being about 33%. It is used also in textile printing and in biscuit and tobacco canning. The rest of this is used in leather, textile pharmaceutical and other industries. The domestic demand for liquid glucose had been estimated as 10000 MT/annum of which 7500 tones are used in the confectionery plants and are therefore widely distributed in their crude form. Which facilitates the development of new technologies and ensure a high quality product.

Macaroni, Spaghetti, Vermicelli and Noodles

Macaroni are made from wheat flour, carbonic salt water, pure salt, soft water and other additives. Carbonic salt water with sodium or potassium carbonate as the main constituent is an important additive giving the stickiness, elasticity, smoothness and good taste. Macaroni is a variety of dry pasta traditionally shaped into narrow tubes,

PROJECT COST ESTIMATE

CAPACITY :	
Spaghetti (250 gms Size)	: 2,880,000 Packets/Annum
Spaghetti (450 gms Size)	: 1,600,000 Packets/Annum
Macaroni (500 gms Size)	: 1,920,000 Packets/Annum
Vermicelli (500 gms Size)	: 1,920,000 Packets/Annum
Noodles (36 gms Size)	: 6,666,666.7 Packets/Annum
Plant & Machinery	: ₹128 Lakhs
Cost of Project	: ₹ 595 Lakhs
Rate of Return	: 28%
Break Even Point	: 58%

produced in various shapes and sizes. Spaghetti is a long, thin, solid, cylindrical pasta. Spaghettoni is a thicker form of spaghetti, while capellini is a very thin spaghetti. It is a staple food of traditional Italian cuisine. In India, vermicelli is made from plain wheat flour or maida but in most of the western countries. Atta or maida noodles is a ready to cook and serve snack food which has become very popular in India in the recent years after its introduction on mass scale of M/s. Food Specialties Ltd, New Delhi under the brand name "Maggi" which is an instant noodle made out of flour.

India is the world's second largest producer of food next to China but accounts for less than 1.5% of International food trade. The global market for pasta can be classified into spaghetti, macaroni, and noodles. "In the Indian pasta market, which is estimated at Rs 700 crores, over 70% of gourmet pastas are manufactured by Indian brands," said Udit Jain, Director of Rajdhani Group. Thus, due to demand it is best to invest in this project.

Maize Starch & Liquid Glucose

Maize starch is a white powder that is derived from the endosperm of the maize plant, also known as corn. It is used as a thickener, stabilizer, and to improve texture and moisture retention in baked goods. Liquid glucose is a concentrated form of glucose syrup, which is derived from maize starch. Maize starch and liquid glucose both have

PROJECT COST ESTIMATE

CAPACITY :	
Maize Starch	: 50 MT Per Day
Liquid Glucose	: 20 MT Per Day
Germ by Product	: 4 MT Per Day
Fibre by Product	: 2 MT Per Day
Steep Water by Product	: 6 MT Per Day
Plant & Machinery	: ₹ 30 Cr.
Cost of Project	: ₹ 43 Cr.
Rate of Return	: 24 %
Break Even Point	: 44 %

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various benefits when used in the food industry. Maize starch is known to have a low glycemic index and can provide a subtle sweetness without adding any calories or carbohydrates. Additionally, liquid glucose helps to increase shelf life, retain moisture, and prevent spoilage.

The maize starch and liquid glucose business is projected to continue to grow in the coming years. As more companies switch to using these ingredients, the demand for them will continue to rise. Additionally, as new products are developed that make use of maize starch and liquid glucose, the industry will continue to expand.

Micronutrient Fortified Energy Dense Food

Micronutrient-fortified food helps to prevent chronic diseases like obesity, diabetes, and heart disease by increasing the intake of micronutrients (vitamins and minerals) that may otherwise be lacking in the diet. There are many micronutrients that play a role in maintaining healthy body weight and blood sugar levels, such as vitamins C and B6, folic acid, zinc, and magnesium. For health reasons, we need to take in certain essential vitamins and minerals every day and if we fail to do so, it can lead to various health issues later on.

PROJECT COST ESTIMATE

CAPACITY

Micronutrients Fortified Energy Dense Food (Rice)	: 1,600 Kgs Per Day
Plant & Machinery	: ₹ 23 Lakhs
Cost of Project	: ₹ 56 Lakhs
Rate of Return	: 27%
Break Even Point	: 66%

Deficiencies in one or more micronutrients such as iron, zinc, and vitamin A are widespread in low- and middle-income countries and compromise the physical and cognitive capacity of millions of people. Food fortification is a cost-effective strategy with demonstrated health, economic and social benefits.

Fortified Food Market size is estimated at \$172.4 Million in 2020, projected to grow at a CAGR of 6.1% during the forecast period 2021-2026. Fortified Foods are foods that possess nutrients supplemented to them that are not organically present in them. These foods are aimed at enhancing nutrition and supplement health advantages. For example, milk is frequently fortified with vitamin D and calcium could be supplemented to fruit juice extracts.

Milk Powder (Baby Milk for 0 to 5 year, Milk Powder for Coffee and Tea)

Milk is a vital component of human nutrition. It's tasty, easy to digest, and nutrient-dense. Proteins, fat, sugar, minerals, and a variety of

PROJECT COST ESTIMATE

CAPACITY:

Baby Milk Powder 400 gms Size Pack	: 62,500 Nos Per Day
Milk Powder for Tea & Coffee 200 gms Size Pack	: 25,000 Nos Per Day
Milk Powder for Tea & Coffee 500 gms Size Pack	: 10,000 Nos Per Day
Plant & Machinery	: ₹ 948 Lakhs
Cost of Project	: ₹ 2711 Lakhs
Rate of Return	: 29%
Break Even Point	: 50%

vitamins are all present in large amounts. India is only second to the United States of America and the Soviet Union in terms of milk production in the world. However, India's milk production is insufficient to meet the needs of its huge population, as daily average intake per person is less than half of the ideal requirement of roughly 310 grammes.

Fresh milk products, concentrates, and dried goods are all available as options for milk and milk products. Fresh milk and concentrates can be substituted with milk powders. Converting liquid dairy streams to powder provides a handy and steady supply of milk solids.

From 2018 to 2025, the global milk powder market is expected to increase at a CAGR of 4.4 percent, from \$27,783.3 million in 2017 to \$38,086.1 million in 2025. Milk powder is a dry dairy product made by evaporating milk to dehydrate it. Making milk powder has the goal of extending the shelf life of milk without the need of a refrigerator. Whole milk powder, skimmed milk powder, dairy whitener, and various varieties of milk powder are available.

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.

With the growing trend of health and fitness, the sports nutrition market is also contributing to the boom in the pea protein

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%

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.

Peanut Butter

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

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

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

PROJECT COST ESTIMATE

CAPACITY

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

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

PROJECT COST ESTIMATE

CAPACITY:

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

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(Kukure 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.

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

Rice Milling Unit

Rice is one of the leading food crops of the world, and is produced in all the continents. Rice was an important food even before the dawn of written history. One centre of origin of cultivated rice is thought to have been in South East Asia. That is, in eastern India. Indo-China and Southern China, Another probably was in Africa. Rice is one of the most important food grains. It is used in almost all homes as eatables. It has good filling capacity as a food grains.

PROJECT COST ESTIMATE

CAPACITY :

Milled Rice (1401 Type) : 65 MT / Day

Milled Rice (1509 Type) : 65 MT / Day

Rice Bran : 10 MT / Day

Rice Husk : 48 MT / Day

Plant & Machinery : ₹ 218 Lakhs

Cost of Project : ₹ 1038 Lakhs

Rate of Return : 30%

Break Even Point : 54%

The production in India (about 40 million tonnes) forms about 40 percent of total production of all food grains. There are a number of big rice plates in India apart from about 60,000 small rice mills of less than 2 tonnes per hour capacity. However, there is still a scope for setting up mini rice plant in various parts of India with a view to meet the local demand and providing employment to local people.

The India rice milling market is expected to value an estimated USD 392.6 million by the end of 2022 and witness a steady CAGR of 3.51% during the forecast period of 2016-2022. The high production of rice in this region and increasing demand for good quality rice are some key drivers for the growth of the rice milling market in India.

India being one of the world's largest producers of rice, possesses a significant rice milling market. A global and local increase in population has led to a higher production of rice in the country to meet both domestic and export demands.

Potato Flakes

The power of potato is known for sustaining millions of lives by providing food and nutrition during distress times. Its high production potential per unit area, high nutritional value and great taste makes potato one of the most important food crops in the world. Classified as a vegetable, potatoes help contribute to the minimum goal of eating five servings of fruits and vegetables per day. Dehydrated potato flakes are made by pressing cooked mashed potatoes onto a drum drier, which

forms a sheet that can be broken up and ground to the required density. Potato flakes can be used anywhere, where one would use mashed potatoes.

Potato flakes have kept the original flavor of potatoes as much as possible. 70%-80% of lasting leisure small foods and approximately 30% of convenient foods are potato products, this shows that consumers prefer for the potato flavor. Only by aging some water, the potato flakes can be returned to the water potato mash which are comparable with the fresh potato mash whether it's outward appearance or taste.

At present, good quality flakes at affordable prices are not available in the country. Therefore, only the manufacturers of premium products have been in a position to use this product. Further, as flakes are generally imported in container loads, only bulk users can afford keep stocks and the agents importing the products have never tried to reach to the small end users. The consumption of potato flakes in India can increase manifold, once a good quality product, at an economical price is available.

The potato flakes are also used as a replacement for various flour such as corn flour, wheat flour etc. In a country such as India, potato flakes are used for various Indian delicacies like aloo bonda, fillings for samosa, dosa, aloo bhujia, aloo paratha, etc. Potato flakes are the most important form of dehydrated potato products, which also include potato granules, pellets, powder, shredded and sliced potato. Dehydrated potato flakes are made by pressing cooked mashed potatoes onto a drum drier, which forms a sheet that can be broken up and ground to the required density.

PROJECT COST ESTIMATE

CAPACITY

Potato Flakes : 10 MT Per Day

Plant & Machinery : ₹ 1653 Lakhs

Cost of Project : ₹ 2093 Lakhs

Rate of Return : 27%

Break Even Point : 40%

Premix Tea and Coffee Cappuccino, Vanilla Flavoured Coffee, Mocha Coffee, Masala Chai, Ginger Tea & Green Tea (for Diabetic and Non Diabetic)

Premix Tea and Coffee Cappuccino, Vanilla Flavoured Coffee, Mocha Coffee, Masala Chai, Ginger Tea & Green Tea are all products that have been specially developed for both diabetic and non-diabetic consumers. They are available in a range of flavors, each with its own unique characteristics. Green Tea is an ideal choice for those who are looking to reduce their sugar intake or follow a healthier lifestyle. All of these products provide health benefits, including improved digestive health and weight management.

PROJECT COST ESTIMATE

CAPACITY:

Premix Tea (Masala Chai) 100 g Pack : 400 Packs Per Day

Premix Tea (Masala Tea) 100 g Pack : 400 Packs Per Day

Premix Coffee (With Sugar) 22g Pack : 1,818 Packs Per Day

Premix Coffee (Without Sugar) 16g Pack : 2,500 Packs Per Day

Premix Coffee (With Vanilla for Diabetic) 22g Pack : 1,818 Packs Per Day

Plant & Machinery : ₹ 13 Lakhs

Cost of Project : ₹ 119 Lakhs

Rate of Return : 35 %

Break Even Point : 49 %

Premix Tea and Coffee is rapidly gaining popularity, particularly with the rise of health-conscious consumers. As the demand for this product increases, the scope for startups in the premix tea and coffee industry is also on the rise. With the right kind of product and marketing strategies, startups can capitalize on this trend and create a successful business.

Premix Tea and Coffee is a booming industry with great potential for startups. It is an easy and convenient way to enjoy a cup of tea or coffee anytime, anywhere. Not only is it cost effective but it also offers a variety of flavors that cater to both diabetics and non-diabetics. With the right business strategies, Premix Tea and Coffee can be very profitable. All in all, it is an exciting industry to enter and explore.

Protein Based Nutrition Foods

Protein-based nutrition foods are products that contain at least 20% of the RDA for protein. The RDA stands for Recommended Daily Allowance, and it is a measurement of the minimum amount of nutrients people should eat in order to maintain their health.

Uses and Application

Protein based nutrition food is popular because it offers a healthy alternative to the traditional junk food. It has more protein and less fat, which can help with weight loss. Plus, it's convenient for people who are always on the go. These products are perfect for those who have limited time in their day or those looking to save some money.

Indian Market Outlook

The India Protein Market stood at 1.25 billion USD in 2021 and is projected to register a CAGR of 4.34% to reach 1.55 billion USD in 2026. The Indian market for protein-based nutrition foods has a huge

PROJECT COST ESTIMATE

CAPACITY

Protein Based Nutrition Foods (Each 500 gms) : 1,200,000 Nos Per Annum

Plant & Machinery : ₹ 62 Lakhs

Cost of Project : ₹ 437 Lakhs

Rate of Return : 29 %

Break Even Point : 59 %

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potential with a high growth rate that can be attributed to the ever-increasing consumer demand for healthy, natural and nutritious food. In addition, the trend of conscious living and health awareness among people also contributes to this growth.

Global Market Outlook

The global plant-based protein market enjoyed a year-on-year (YOY) growth of 6.7% in 2021 to total sales of USD 11.3 Bn and is projected to surpass USD 22.5 Bn in 2032 at a CAGR of 7.2%. Increasing productivity in the food and beverage sector will provide an array of opportunities to the plant-based protein market.

Conclusion

Investing in the protein based nutrition food industry has many advantages, as it is a growing sector with high demand and limited supply. There are many ways to capitalize on such an investment opportunity.

Refined Oil (Cotton Seed, Ground Nut & Sunflower Oil)

The edible oil market in India is projected to grow from around \$21.5 billion in 2019 to \$35.2 billion by 2025 due to increasing disposable income and rising consumer awareness about healthy lifestyle & wellness. Moreover, strong marketing activities by leading edible oil brands, changing tastes and preferences of consumers,

PROJECT COST ESTIMATE

CAPACITY :

Refined Sunflower Oil	: 15,783 Kgs/Day
Refined Groundnut Oil	: 15,783 Kgs/Day
Refined Cotton Seed Oil	: 15,783 Kgs/Day
Plant & Machinery	: ₹ 558 Lakhs
Cost of Project	: ₹ 1827 Lakhs
Rate of Return	: 29%
Break Even Point	: 53%

expanding population, and shifting consumption pattern towards branded oils is leading to rising consumption of edible oils in the country. Thus, due to demand it is best to invest in this project.

Pulp Based Fruit Drink Manufacturing (Automatic Plant)

The global fruit beverages market size was valued at USD 33.92 billion in 2018 and is projected to expand further at a CAGR of 6.2% from 2019 to 2025. The market is expected to witness stable growth during the next five years. Fruit juice refers to a non-fermented beverage which is obtained by mechanically squeezing or macerating fruits. Different types of fruit juice offer varied health benefits, for instance, avocado juice boosts natural energy in the body; watermelon juice keeps the body hydrated and improves metabolism; papaya juice caters healthy digestion; lemon juice fights viral

PROJECT COST ESTIMATE

CAPACITY:

Mango Fruit Drink	: 12,000 Ltrs / Day
Litchi Fruit Drink	: 12,000 Ltrs / Day
Guava Fruit Drink	: 12,000 Ltrs / Day
Orange Fruit Drink	: 12,000 Ltrs / Day
Lemon Fruit Drink	: 12,000 Ltrs / Day
Plant & Machinery	: ₹ 665 Lakhs
Cost of Project	: ₹ 5119 Lakhs
Rate of Return	: 31%
Break Even Point	: 32%

infections, and pineapple juice reduces cholesterol levels. This, coupled with the refreshing taste and longer shelf-life of fruit juice, makes it one of the most widely consumed beverages across the globe. This growth is attributed to the increasing demand for fruit beverages in emerging countries including China and India. Entrepreneurs who invest in this project will be successful.

Ready to Eat Food (Retort Packaging) Vegetable Pulao, Dal Makhani, Palak, Rajma, Potato Peas and Mutter Mushroom)

RTE food includes wide range of products viz. vegetarian/non-vegetarian, basic food/delectable desserts, south and north Indian items available from a specialty or multi cuisine restaurant & food joint only.

Uses and Applications

There are many Uses and Applications for ready to eat food. For example: you could start a catering business, food delivery service, a meal prep service. Ready to eat food is a great way to add variety to your diet and get all the nutrients your body needs.

PROJECT COST ESTIMATE

CAPACITY:

Vegetable Pulao	: 3,000 Kgs. Per Day
Dal Makhani	: 2,000 Kgs. Per Day
Palak	: 600 Kgs. Per Day
Rajma	: 700 Kgs. Per Day
Potato Peas	: 600 Kgs. Per Day
Matar Mushroom	: 250 Kgs. Per Day
Plant & Machinery	: ₹ 331 Lakhs
Cost of Project	: ₹ 718 Lakhs
Rate of Return	: 27%
Break Even Point	: 63%

Indian Market

The Indian food processing industry accounts for 32 percent of the country's total food market, one of the largest industries in India and is ranked fifth in terms of production, consumption, export and expected growth.

Global Market

RTE food market is expected to grow at a 21.8-percent compound annual growth rate (CAGR) between 2018 and 2023. The demand for healthy and convenient ready-to-eat (RTE) food is on the rise.

Spices (Mirchi Powder, Turmeric Powder, Sambhar Powder and Biryani Masala)

The population in India is surging and the increasing consumer expenditure on food explains the swelling demand for food in India. Accordingly, the demand for spices is expected to grow in the future which will lead to a prominent growth in the revenues from the sales of spices in

PROJECT COST ESTIMATE

CAPACITY :

Turmeric Powder	: 1,000 Kgs. / Day
Red Chilli Powder	: 1,000 Kgs. / Day
Sambhar Powder	: 1,000 Kgs. / Day
Biryani Masala	: 1,000 Kgs. / Day
Plant & Machinery	: ₹ 78 Lakhs
Cost of Project	: ₹ 539 Lakhs
Rate of Return	: 28%
Break Even Point	: 56%

India. The revenues from India market are expected to expand to around USD 18 billion in FY'2020, growing with a CAGR of ~% from FY'2016 to FY'2020. The highest contribution to this growth is expected to come from the spice mixes and blend-spices. Entrepreneurs who invest in this project will be successful.

Tea Blending and Packaging (Tea, Green Tea & Herbal Tea)

Soya Nugget, Tea Packaging, Turmeric Grinding & Packaging and Jam are four business ventures that are currently booming in the market. Each of these businesses caters to a specific need and is growing in popularity due to their effectiveness and quality.

Tea has become increasingly popular due to its numerous health benefits, and the convenience of tea bags has made it an easy choice for people on the go. The global turmeric market is expected to grow at a CAGR of 5.8% during the forecast period of 2021-2026, driven by increasing demand for natural remedies and supplements. Finally, the jam market is also expected to see growth, driven by increased demand for healthy and organic alternatives.

PROJECT COST ESTIMATE

CAPACITY:

Soya Nuggets	: 1,600 Kgs Per Day
Tea Packaging	: 1,200 Kgs Per Day
Fruit Jam	: 1,000 Kgs Per Day
Turmeric Powder	: 40 Kgs Per Day
Plant & Machinery	: ₹ 202 Lakhs
Cost of Project	: ₹ 380 Lakhs
Rate of Return	: 27 %
Break Even Point	: 58 %

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

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

R.N.I. NO. 61509/95

DATE OF PUBLICATION : 19 EVERY MONTH