

Picking the Right Projects: Investment Opportunities



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Alcohol from Potato

- The term alcohol was first applied to the spirits of wine, ethyl alcohol, and now it refers to a series of substances with similar characteristics Ethyl alcohol is the active constituent of all intoxicating liquors obtained by the fermentation of saccharine materials. It is present in the form of esters in several volatile oils. It is now a days prepared in immense quantities, chiefly by fermentation and finds numerous industrial uses, and is also being used as a motor fuel.
- The use of alcohol as an exhilarating and intoxicating beverage is common throughout the world. Today, the fermented juice, obtained from several palms, has long been used by the poorer classes in India, has long been used by the poorer classes in India, and the distillation of spirit, arrack from fermented rice, toddy etc; has been known, since early times. Since the advent of the English into India, modern distilleries and breweries have been established in almost all the Provinces and important States.
- Industrial ethanol is a mature market. However, due to the rapid growth in fuel ethanol, the market dynamics are actively changing. Key suppliers in this market include domestic and imported fermentation producers, as well as domestic and imported synthetic producers.

Ferro Silicon

- Ferro Alloys Plays major role in Steel Production and industrial development. Ferro-alloys are iron based alloys with varied elements introduced in steel making to cater to the specific needs. These are specified additions to the production of steel for various applications. Generally ferro-alloys are designated by base metal indicated as under such as:
 - Ferro - silicon
 - Ferro – manganese
 - Silico – manganese
 - Ferro – chrome etc.
- Ferro alloys are iron bearing alloys with additives which are passed on to steel to meet specific needs. The Ferro alloys are brittle and can be crushed to any size to be added to the molten steel as additives. Generally the additives as in steel are invariably added in the form of Ferro alloys. These are established additives in the steel production to obtain specific needs.

Brake Shoe

- The automobile is unique-technological achievement, which make the distance shorter. With this a far distance is covered in very short time. In developing India the use of automobile vehicles is increasing tremendously. The first motor car which was imported to India came in 1898 and now from that time upto the present time there are so many manufacturers who are manufacturing various Automobile vehicles.
- Brake shoe is used in the brake of an automobile. Automobile brakes require more attention than any other system in the vehicle. Brake shoes are used in the brakes of automobile vehicles. This provides the base to the lining. This is the part, which feeds pressure and transmits the force to the lining by expansion. This is a very important part of the braking system. Due to high friction, the vehicle stops. An understanding of the requirement of braking systems of automobile vehicles requires knowledge of The purpose of brakes, An appreciation of their contribution to safety, Recognition of the factors controlling the stop, An understanding of braking action, An appreciation of possible stopping distances.

Guar Gum Powder

- Guar is also called guaran, is a Galactomannan. It is primarily the ground endosperm of guar beans. The guar seeds are dehusked, milled and screened to obtain the guar gum. It is typically produced as a free flowing, pale, off-white colored, coarse to fine ground powder. It is available in form of: Guar Seed , Guar Gum Powder , Guar Refined Split , Guar Churi Meal.
- Guar gum is water-soluble plant mucilage obtained from the grand endosperms of cyanopsis tetragonoloba, cultivated in Pakistan as livestock feed. The water-soluble portion of the flour (85%) is called 'guaran' and consists of 35% galactose, 63% mannose, probably combined in a polysaccharide 5-7% protein.
- Guar gum exporter provides guar gum for food additives, guar gum for food ingredients, guar gum for pet food additives, guar gum stabilizing, food grade guar gum, industrial grade guar gum and technical grade guar gum.
- Gum manufactured from guar has got variety of uses. Guar Gum is used as Natural thickener, Emulsifier, Stabilizer, Bonding agent, Hydrocolloid, Gelling agent, Natural Fiber, Fracturing agent.

Kraft Paper from Waste Cartons

- Paper is a major product of the forestry industry, and is used widely in our society. Paper products are used not only in their obvious applications in the publishing industry and for writing on, but also in a variety of specialty papers, cardboards, brown papers etc. In addition, various chemicals are produced as a byproduct of the pulp and paper industry. Kraft paper, Brown paper or wrapping paper is made from variety of raw materials, e.g. Bagasse, ground wood, straw, waste paper, in various combinations or alone, waste carton boxes etc
- Machine Glazed (MG) papers are useful for paper bags; the high gloss of one side makes it easier to print and the roughness of the other provides a key for the adhesive used. Kraft paper is sometimes used for home crafts as well. A section of it is an ideal medium for the creation of homemade costumes for Halloween or a costume party. People who want to be more natural and creative with their gift wrap may choose to use this paper for wrapping gifts, often embellishing with other natural elements or using markers or stencils to create a unique design. Thus, due to demand it is a good project for entrepreneurs to invest.

Sodium Silicate from Rice Husk Ash

- Sodium Silicate is a colourless compound of oxides of sodium and silica. It has a range of chemical formula varying in sodium oxide (Na_2O) and silicon dioxide or silica (SiO_2) contents or ratios. Sodium silicate is the generic name for a series of compounds derived from soluble sodium silicate glasses. They are water solutions of sodium oxide (Na_2O) and silicon dioxide (SiO_2) combined in various ratios.
- Rice husk a major by-product of the rice milling industry, is one of the most commonly available lignocellulosic materials that can be converted to different types of fuels and chemical feedstocks through a variety of thermo chemical conversion processes. Rice husk is an agricultural residue abundantly available in rice producing countries. The husk surrounds the paddy grain.
- India is a major rice producing country, and the husk generated during milling is mostly used as a fuel in the boilers for processing paddy, producing energy through direct combustion and/or by gasification. About 20 million tones of RHA are produced annually. This RHA is a great environment threat causing damage to the land and the surrounding area in which it is dumped.

Vodka from Potato

- Vodka is a neutral spirit that is without distinctive character, aroma, taste, or color. These properties are developed during the distillation process or by treating crudely distilled spirits with activated carbon or other materials. Finely distilled vodka may also be further purified and refined by treatment with activated carbon and other materials. Vodka is usually not aged and can be made from grains, potatoes, sugars, fruits, and just about anything else that can be fermented to produce alcohol.
- Alcohol has a depressant effect on the central nervous system and not a stimulating effect as was formerly supposed. One apparent exaltation is due to its inhibitory action on higher, nervous centres. A strong dose of alcohol introduced into the stomach increases heart beat and causes rise in blood pressure. Hence, the use of brandy as a restorative.
- Vodka is produced in India by very few brands; hence this list includes mostly IMFL (Indian Made Foreign Liquor) and imported brands available in the market currently. This list of Top 10 Brands of Vodka in India is compiled on the basis of their prices.

Ethanol from Rice Straw and Rice Husk

- Bio energy—energy produced from biomass—offers the opportunity to reduce not only the carbon dioxide emissions but also the dependence of energy imports, and as well as to diversify the energy matrix, reducing the oil dependence.
- Second generation bio ethanol is based on raw materials rich in complex carbohydrates like cellulose. This becomes an interesting alternative to reduce competition with the food industry and to generate an added value to the agro- industrial residues. Ethanol is also called ethyl alcohol, and drinking alcohol. It is the principal type of alcohol found in alcoholic beverages, produced by the fermentation of sugars by yeasts.
- India's production of biodiesel from jatropha seeds is commercially negligible and economically unviable. Farmers have not planted jatropha because it is difficult to market, yields are poor, and seed quality is inconsistent. As a result, most of the biodiesel units operating in India have turned to alternative feed stocks such as edible oil waste (unusable oil fractions), animal fats, and other inedible oils.

E-Waste Recycling Plant

- E-waste is a popular, informal name for electronic products nearing the end of their "useful life." Computers, televisions, VCRs, stereos, copiers, and fax machines are common electronic products. Many of these products can be reused, refurbished, or recycled. Unfortunately, electronic discards are one of the fastest growing segments of our nation's waste stream. Electronic wastes, "e-waste", "e-scrap", or "Waste Electrical and Electronic Equipment" ("WEEE") is a description of surplus, obsolete, broken or discarded electrical or electronic devices.
- A range of techniques is currently applied for retrieving components and materials from WEEE. The essential features of these systems generally conform to a scheme of: sorting/disassembly; size reduction; separation. The main components of WEEE, in terms of weight, are iron and steel followed by plastics as can be seen, iron and steel are the most common materials found in electrical and electronic equipment and account for almost half of the total weight of WEEE.

Iron Powder

- Iron is probably one of the most important, being used on the largest scale of any metal. Its Production in the blast furnace is well documented. When pure, iron is a lustrous white metal which is soft and very workable. However, it is reactive and easily forms a coating of hydrated oxide on its surface in the presence of moist air. This is non-coherent and flakes easily to reveal fresh surfaces for attack. Iron is soluble in dilute acids, where Fe(II) is produced in solution; more oxidising acids produce Fe(III) solutions and strongly oxidising agents (e.g. dichromate or concentrated nitric acid) produce a passive form of the metal, probably as a result of the formation of a coherent surface film of oxide.
- Iron powder can be used in several chemical and metallurgical processes from the production of aluminium foil to magnetic paints. For some applications there is more or less no alternative to iron powder. These applications often have special requirements for specific properties and stringent demands for consistency. In other applications the high surface area and/or purity of iron powder can more cost-effective solutions compared to alternative methods.

Banana Powder

- Banana is the common name for a type of fruit and also the herbaceous plants of the genus Musa. Banana is amongst the most versatile and most widely eaten fruits in the world today. Bananas come in a variety of sizes and colors when ripe, including yellow, purple, and red. Bananas can be eaten raw though some varieties are generally cooked first. Banana has various uses that can be turned into many processed products. In addition to banana exporting, processing banana into different products could mean additional income for banana farmers. Banana powder has a great potential for commercialization.
- The quality of banana powder is determined by the color, flavor, texture and moisture content. These are affected by the varieties of bananas and processing operations specially blanching process. Banana powder, because of its high concentration of banana essence, has been found to be a "major source of carbohydrate and calories". While it is generally low as a source of protein, the beneficial ingredients of the powder are still "markedly superior to that of other fruits". The powder has also been found to be useful as a general treatment for dyspepsia (indigestion).

Freeze Dried Vegetables

- Most foods contain very high percentage of water. Microorganisms thrive when there is water, spoiling the food and altering its taste. Removing water keeps food from spoiling for long periods of time. Also removing water makes the food lighter, making it easy to package and transport. Yet, removing water, must not alter the composition of the food.
- 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. Freeze drying is one such method. The scientific principle in freeze-drying is sublimation, the conversion of a solid (ice) directly into its gaseous form (water vapour).
- Since the water and oxygen have been removed from freeze-dried food it does not require refrigeration when stores and is; therefore, considered to be "shelf-stable" or safe to store at room temperature for long periods of time. Freeze-dried foods are very moisture sensitive; therefore, they will rehydrate in a matter of minutes when added to warm/hot water.

Laundry Unit

- There is cleaning requirement everywhere. Cleanliness is the source of beauty and also the placement of God. Laundry unit is one of the unit by which dirty clothes are cleaned by operation. In older ages there is a system of washer men who collect the dirty clothes from house to house and return the clothes after cleaning within seven days. But now a day, with the growth of Urbanization, washing of cloths has turned out to be a commercial proposition and led to the establishment of modern dry cleaning units in the cities as well in big towns. The services of these units are very prompt and efficient. The occupation includes all types of cleaning, dyeing, bleaching and dry cleaning. The occupation has changed with the passage of time.
- Laundry has long recognized that although community laundry rooms require utilities – water and energy – to operate, installing state of the art equipment and providing state of the art technology will minimize the environmental impact of its laundry rooms. Mechanized Laundry works closely with its manufacturing partners and customers to provide the most technologically advanced and energy friendly equipment available to reduce the impact laundry rooms have on the environment.

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Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

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- Aluminium And Aluminium Extrusion Profiles & Sections,
- Bio-fertilizers And Biotechnology
- Breakfast Snacks And Cereal Food
- Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling

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- Building Materials And Construction Projects
- Biodegradable & Bioplastic Based Projects
- Chemicals (Organic And Inorganic)
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- Cereal Processing
- Coconut And Coconut Based Products
- Cold Storage For Fruits & Vegetables
- Coal & Coal Byproduct

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- Engineering Goods
- Fibre Glass & Float Glass
- Fast Moving Consumer Goods
- Food, Bakery, Agro Processing

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- Ferro Alloys Based Projects
- Fertilizers & Biofertilizers
- Ginger & Ginger Based Projects
- Herbs And Medicinal Cultivation And Jatropha (Biofuel)
- Hotel & Hospitality Projects
- Hospital Based Projects
- Herbal Based Projects
- Inks, Stationery And Export Industries

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- Infrastructure Projects
- Jute & Jute Based Products
- Leather And Leather Based Projects
- Leisure & Entertainment Based Projects
- Livestock Farming Of Birds & Animals
- Minerals And Minerals
- Maize Processing(Wet Milling) & Maize Based Projects
- Medical Plastics, Disposables Plastic Syringe, Blood Bags
- Organic Farming, Neem Products Etc.

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- Paints, Pigments, Varnish & Lacquer
- Paper And Paper Board, Paper Recycling Projects
- Printing Inks
- Packaging Based Projects
- Perfumes, Cosmetics And Flavours
- Power Generation Based Projects & Renewable Energy Based Projects
- Pharmaceuticals And Drugs
- Plantations, Farming And Cultivations
- Plastic Film, Plastic Waste And Plastic Compounds
- Plastic, PVC, PET, HDPE, LDPE Etc.

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- Printing And Packaging
- Real Estate, Leisure And Hospitality
- Rubber And Rubber Products
- Soaps And Detergents
- Stationary Products
- Spices And Snacks Food
- Steel & Steel Products
- Textile Auxiliary And Chemicals

Sectors We Cover *Cont...*

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- Textiles And Readymade Garments
- Waste Management & Recycling
- Wood & Wood Products
- Water Industry(Packaged Drinking Water & Mineral Water)
- Wire & Cable

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