

**MAKE IN INDIA:**  
**Business Ideas for**  
**Manufacturing Projects**  
**to Start**



# Blood Bags

- Blood bag is a disposable bio-medical device used for collection, storage, transportation and transfusion of human blood and blood components. The system consists of a single or multiple bag connected with tubings, needle, needle cover, clamp etc. The Blood Bags are made of plastic-material, which are compatible with blood.
- The introduction of flexible PVC bags for the storage of blood and its components totally replaced the use of glass bottles because of its numerous advantages. Blood bags enable better separation of blood components in a more sterile manner and safer transfusion of components. This has led to increasingly wider use of blood component therapy than whole blood use, thus enabling more effective use of the scarce donor blood that is available.
- Increase in the healthcare facilities will further act as a driver for the growth of medical devices sector in India. The blood bag market is expected to grow further in the coming years owing to continuous developments and rising demand for better blood collection technology. As a whole it is a good project for new entrepreneurs to invest.

# Heptafluoropropane

1,1,1,2,3,3,3-Heptafluoropropane, also called heptafluoropropane, HFC-227 or HFC-227ea (ISO name), is a colourless, odourless gaseous halocarbon commonly helped as a gaseous fire suppression agent.

Its chemical formula is  $\text{CF}_3\text{-CHF-CF}_3$ , or  $\text{C}_3\text{HF}_7$ . With a boiling point of  $-16.4^\circ\text{C}$ , it is a gas at room temperature. It is slightly soluble in water (260 mg/L). HFC-227ea is almost not transformed in the body. During exposure blood concentrations rise rapidly to a maximum, but is also rapidly cleared from the blood via respiration after cessation of exposure.

## Uses

HFC-227ea finds use in fire suppression systems in data processing and telecommunication facilities, and in protection of many flammable liquids and gases. HFC-227ea falls in the category of Clean Agents and is governed by NFPA 2001 - Standard for Clean Agent Fire Extinguishing Systems. Effective fire suppression requires introducing a concentration of the HFC-227ea agent between 6.25% and 9% depending on the hazard being protected. Its NOAEL level for cardiac sensitization is 9%. The United States Environmental Protection Agency allows concentration of 9% volume in occupied spaces without mandated egress time, or up to 10.5% for a herped time.

# High Pure Dissolved Acetylene Gas

- Acetylene ( $C_2H_2$ ) is known as one of the simplest and most significant chemical in the acetylene series. A compound of carbon and hydrogen, acetylene is a colorless, highly flammable gas that dissociates at normal to low pressures and needs to be stored in high-pressure tanks containing some porous material and acetone. It has active chemical property; it is easy to polymerize, synthesize and cause chemical reactions.
- Acetylene is the most common gas used for fueling cutting torches in both general industry and the mining industry. When mixed with pure oxygen in a cutting torch assembly, an acetylene flame can theoretically reach over  $5700^{\circ}F$ . Users of this type of equipment are generally familiar with the fire hazards associated hot flames and the production of hot slag. However, many users may not be aware of the unique characteristics of acetylene itself that create special hazards compared to other fuel gases.

# Pickles (Various Type)

Pickle is a general term used for fruits or vegetables preserved in vinegar or brine, usually with spices or sugar or both. Pickle producing businesses are engaged in producing pickle in different varieties. Natural fruit and vegetable items are used as raw material for producing various types of pickles i.e. mango, beet, cabbage, cauliflower etc. Pickles are considered the permanent part of the food table all over the Sub-Continent and its demand is rising after its production on commercial scale. Sub-continental spices, preserved foods and traditional methods of cooking and food making have always been attractive to the world. Pickling is one of the oldest methods of food preservation. Indian pickles play an important role in fruit and vegetable preservation industry.

Main key factor in Pickle production include purchase of raw material at a time when it is available in economical price. Therefore, seasons when vegetables and fruits i.e. mango, carrot, Garlic and Cucumber etc. are easily available at low price would be critical. In India, the pickles are being manufactured by a number of units. The manufacturing process is simple and the top product is having great demand. Any entrepreneur venture into this field will be successful.

# Garlic Oil

- Garlic is one of the important bulb crops grown and used as spice and condiment throughout India. It possesses a high nutritive value and medicinal property. Allicin, the principle of garlic has antibiotic properties. The plant is a small herb and produces a group of small bulbs called cloves covered with a thin skin. The seed stalks bears both seeds and bulblets in the same head. However, seed is seldom used for propagation as the cloves are more commonly used.
- The increasing importance of natural extracts as pharmaceutical & natural cosmetic aid and their use as nutraceutical ingredients in recent times has opened up new vistas for this sector besides their widespread use as flavour & fragrance ingredients. India will play a dominant role in the production & processing of these natural extracts. Country's biodiversity coupled with competent scientific force, make our country as the best choice to become a foremost leader in aroma business in the coming years. Thus it is a good project for investment.

# Bitumen Emulsion

- Bitumen is defined as “A viscous liquid, or a solid, consisting essentially of hydrocarbons and their derivatives, which is soluble in trichloroethylene and is substantially nonvolatile and softens gradually when heated. It is black or brown in colour & possesses waterproofing and adhesive properties. It is obtained by refinery processes from petroleum, and is also found as a natural deposit or as a component of naturally occurring asphalt, in which it is associated with mineral matter.
- Bitumen emulsion is one kind of speciality chemicals, which has large commercial uses as coating materials in the road construction and many other construction fields. It is also used as sealing material for the different type of laminated paper. Bitumen is available in the nature also and it is the byproduct of petroleum distillation plant or coal carbonization plant.

# Condoms

- Control of fertility continues to be an important issue through the world even though the population growth rate has shown a steady decline in many countries, partly owing to the extensive use of condoms (male) or with use of oral contraceptives (female). Rubber condoms (male) are used by the majority of man today for enjoying the sexual intercourse. The function of the condoms it's to collect the sperm created by the man during sexual intercourse. This condom prevents the sperm in penetrating into the female reproductive organ.
- The condoms or contraceptives (male) are usually made from natural rubber (latex). The rubber is used because of the unique physical properties which are Elasticity; Flexibility; Impermeable.
- At present the country's total demand of condom is being fulfilled by total three manufacturing units. Hindustan Latex Ltd. of Kerala is Central public sector undertaking was set up in 1969 to manufacture Condoms. It is the largest manufacturer of Condoms in the country today and produces thinnest variety of Condoms in the world. Thus, due to demand it is a good project for entrepreneurs to invest.



# Sweet & Scented Supari in Pouches

- The betel nut (Supari) tree, which is known as "ARECA" in South India. It is planted in Bengal, Mysore, Sri Lanka etc. Its yield considered being very good in Sri Lanka. The betel (Piper betle) is the leaf of a vine belonging to the Piperaceae family, which includes pepper and kava. It is valued both as a mild stimulant and for its medicinal properties. Betel leaf is mostly consumed in Asia and elsewhere in the world by some Asian emigrants, as betel quid or in paan, with or without tobacco with adverse health effects. Betel is notable for staining the teeth of regular users. It is found in various places and its yield is different due to changed climate.
- Betel nut chewing has been practiced by natives in various countries since times. So keeping in mind its demand manufacturer utilising supari as a raw material for making various chewing material as Supari, Pan chapp gutaka, Pan Masala, Mayur brand sweet supari, scented supari etc. People chew it for stress reduction, feelings of well-being, and heightened awareness. It contains three major alkaloids: arecoline, pilocarpine, and muscarine.

# Paraffin Wax

- Paraffin wax is a white or colorless soft solid derivable from petroleum, coal or oil shale, that consists of a mixture of hydrocarbon molecules containing between twenty and forty carbon atoms. It is solid at room temperature and begins to melt above approximately 37°C (99°F); its boiling point is >370 °C (698 °F). Common applications for paraffin wax include lubrication, electrical insulation, and candles. It is distinct from kerosene, another petroleum product that is sometimes called paraffin.
- Wax consumption has been projected to grow at an average annual rate of greater than 2 percent from 2010 to 2020. Waxes are used in a variety of products, including packaging, coatings, personal care products and of course, candles. Waxes can also be further processed into synthetic lubricants. Overall wax demands are largest for board sizing and candles. Combined these two products account for about 44 percent of the demand. Thus, due to demand it is a good project for entrepreneurs to invest.

# PVC Flex Banner

## *(Frontlit, Backlit & Vinyl)*

- PVC flex is made out of PVC and fabric raw material, specially designed for solvent printing industry. It is suitable for indoor and outdoor printing used in billboard, display, banners and exhibition booth decoration. PVC Flex is best to all Digital printer specially designed for Indian market. Due to stable chemical character and excellent ink absorbency, PVC Flex will bring wonderful digital printing images for large format picture advertisements. In virtue of the high classic quality and best sales service, nowadays PVC Flex is playing an important role in signage & Banner Advertising industry.
- This market is booming with 25-30% annual growth and is worth around Rs 500-600 crore. PVC is the third-most-used plastic or polymer petrochemical, after polyethylene and polypropylene. Depending on the manufacturing process or polymerisation, there are two types of PVC. Suspension is plain or rigid PVC, used for construction works, while emulsion or paste PVC is used in coating and blending applications. PVC flex is an end-product, used in tarpaulins, canvas and printing. Thus, due to demand it is a good project for entrepreneurs to invest.

# Sanitary Napkins

Technical textiles are defined as textile materials and products used primarily for their technical performance and functional properties rather than their aesthetic or decorative characteristics. Thus Sanitary Napkin comes under Nonwoven fabrics which as a whole come under technical textile.

The Sanitary napkin industry is closely connected with the mode of life, which is in turn directly correlated to housing. Accordingly this industry has always grown by keeping pace with improvement in living and it is now indispensable for sanitary in modern housing. A woman will use an average of 10000 pieces of sanitary napkins within 30 to 40 years in her entire lifetime.

## Uses

Sanitary Napkins are exclusively used by adult girls & Ladies around the world during for maintaining physical aid & to avoid wetting or staining of the clothes. The demand for such products is stable; purchases are recurring and not subject to normal business cycles. Historically, the price of feminine hygiene products have been relatively expensive, but that is changing as small and large businesses enter the market and make an accessible, lower-priced offering to a wider consumer base. Any entrepreneur venture into this field will be successful.

# Cold Storage with Ice Plant

India is the largest producer of fruits and second largest producer of vegetables in the world. Fruits & vegetables, being perishable in nature require certain techniques of preservation for retaining the freshness intact and making them an acceptable item even after few days of ripening. It also facilitates the farmer to realize a better price instead of selling the product at a throw away price due to the perishability. This necessity as evolved a new concept of storing these items at below or just above sub-zero temperatures known as cold storage. Introduction of Cold storage / Cold room facility will help them in removing the risk of distress sale and simultaneously will ensure better returns.

Cold Storage is a special kind of room, the temperature of which is kept very low with the help of machines and precision instruments. India is having a unique geographical position and a wide range of soil, thus producing variety of fruits and vegetables like apples, grapes, oranges, potatoes, chillies, ginger, etc. Marine products are also being produced in large quantities due to large coastal areas. As per 2008-09 figures, India produces around 215 Million Tons of Fruits and Vegetables, 3 Billion Tons of Marine Products, 109 Million Tons of Milk, 56 Billion Eggs and 38 Million Tons of Meat per annum.

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# Barley Malt

Barley Malt is germinated cereal grains that have been dried in a process known as "malting". The grains are made to germinate by soaking in water, and are then halted from germinating further by drying with hot air. Malting grains develop the enzymes required to modify the grain's starches into sugars, including the monosaccharide glucose, the disaccharide maltose, the trisaccharide maltotriose, and higher sugars called maltodextrines. Barley Malt also contains small amounts of other sugars, such as sucrose and fructose.

Barley Malted grain is used to make beer, whisky, malted shakes, malt vinegar, confections such as Maltesers and Whoppers, flavored drinks such as Horlicks, Ovaltine and Milo, and some baked goods, such as malt loaf, bagels and rich tea biscuits. Malted grain that has been ground into a coarse meal is known as "sweet meal". Various cereals are malted, though barley is the most common. Malting is the process of converting barley or other cereal grains into malt, for use in brewing, distilling, or in foods and takes place in a maltings, sometimes called a malthouse, or a malting floor.

# Honeycomb Paper Products

*(Board, Paper Partition, Pallets & 5 Ply Corrugated Boxes)*

The manufacture of modern structural honeycombs probably began in the late 1930s when J. D. Lincoln manufactured Kraft paper honeycomb for use in the furniture built by Lincoln Industries in Marion, Virginia, USA. The material was used in sandwich panels which consisted of thin hardwood facings bonded to a relatively thick slice of paper honeycomb. At the outbreak of World War II paper honeycomb was used by the Glen L. Martin Company in radomes - structural enclosures for radar antennas, which were then in their infancy. It was quite successful; however, the paper core did pick up moisture. Martin later developed a honeycomb made of cotton duck fabric and by the end of World War II they had produced honeycomb cores made of cotton fabric, glass fabric and Aluminium foil.

Corrugated fiberboard has more than 100 years of history and features the advantages of low cost, light weight, ease of processing, high strength, and suitability for printing. Apart from meeting the demand for environmental protection by using corrugated fiberboard materials, the works on show at the exhibition also accommodated trends in the furniture design world, using bonding techniques or latch principles.

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# Who are we?

- One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services
- We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad

# What do we offer?

- Project Identification
- Detailed Project Reports/Pre-feasibility Reports
- Market Research Reports
- Technology Books and Directory
- Databases on CD-ROM
- Laboratory Testing Services
- Turnkey Project Consultancy/Solutions
- Entrepreneur India (An Industrial Monthly Journal)

# How are we different ?

- We have two decades long experience in project consultancy and market research field
- We empower our customers with the prerequisite know-how to take sound business decisions
- We help catalyze business growth by providing distinctive and profound market analysis
- We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors
- We use authentic & reliable sources to ensure business precision

# Our Approach

**Requirement collection**

**Thorough analysis of the project**

**Economic feasibility study of the Project**

**Market potential survey/research**

**Report Compilation**

# Who do we serve?

- Public-sector Companies
- Corporates
- Government Undertakings
- Individual Entrepreneurs
- NRI's
- Foreign Investors
- Non-profit Organizations, NBFC's
- Educational Institutions
- Embassies & Consulates
- Consultancies
- Industry / trade associations



# Sectors We Cover

- Ayurvedic And Herbal Medicines, Herbal Cosmetics
- Alcoholic And Non Alcoholic Beverages, Drinks
- Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin
- Activated Carbon & Activated Charcoal
- Aluminium And Aluminium Extrusion Profiles & Sections,
- Bio-fertilizers And Biotechnology
- Breakfast Snacks And Cereal Food
- Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling

## Sectors We Cover *Cont...*

- Bamboo And Cane Based Projects
- Building Materials And Construction Projects
- Biodegradable & Bioplastic Based Projects
- Chemicals (Organic And Inorganic)
- Confectionery, Bakery/Baking And Other Food
- Cereal Processing
- Coconut And Coconut Based Products
- Cold Storage For Fruits & Vegetables
- Coal & Coal Byproduct

# Sectors We Cover *Cont...*

- Copper & Copper Based Projects
- Dairy/Milk Processing
- Disinfectants, Pesticides, Insecticides, Mosquito Repellents,
- Electrical, Electronic And Computer based Projects
- Essential Oils, Oils & Fats And Allied
- Engineering Goods
- Fibre Glass & Float Glass
- Fast Moving Consumer Goods
- Food, Bakery, Agro Processing

# Sectors We Cover *Cont...*

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

# Sectors We Cover *Cont...*

- 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.

# Sectors We Cover *Cont...*

- 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.

# Sectors We Cover *Cont...*

- Potato And Potato Based Projects
- 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...*

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



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