

# HI-TECH PROJECTS

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# JUST PREPARED NEW PROJECTS FOR YOU

## ALPHA CELLULOSE POWDER FROM COTTON WASTE

**[EIRI-1645]**

Cellulose is a natural carbohydrate high polymer (polysaccharide) consisting of anhydro glucose units joined by an oxygen linkage to form long molecular chains, that are essentially linear cellulose exist in three form. 1. Alpha, 2. Beta, 3. Gamma. Alpha cellulose has the highest degree of Polymerization (DP). It is insoluble in strong sodium hydroxide solution. The beta and gamma form have much lower DP and are known as hemicelluloses.

### Cost Estimation

Plant Capacity	2 MT/Day
Land & Building (1500 Sq.Mt.)	Rs. 2.57 Cr.
Plant & Machinery	Rs. 90 Lacs
W.C. for 3 Months	Rs. 93 Lacs
Total Capital Investment	Rs. 4.51 Cr.
Rate of Return	16%
Break Even Point	65%

## CAST POLY PROPYLENE FILMS (CPP FILM) [EIRI-1646]

The term CPP is used in the plastics industry to describe polypropylene-based films produced by a cast extrusion process (Cast Polypropylene). Although there are some CPP films used for hygiene applications and synthetic paper (usually involving fillers and other additives), the term CPP is usually used to refer to high clarity films targeting lamination, metallization and packaging applications.

### Cost Estimation

Plant Capacity	16.67 MT/Day
Land & Building (4000 Sq.Mt.)	Rs. 2.45 Cr.
Plant & Machinery	Rs. 2.80 Cr.
W.C. for 2 Months	Rs. 9.22 Cr.
Total Capital Investment	Rs. 14.77 Cr.
Rate of Return	46%
Break Even Point	34%

## SPICES GRINDING [EIRI-1647]

Spices which are basically plant products, have a definite role to play in enhancing the taste flavour, relish or piquancy of any food, most of the spices are pagrant, aromatic and pangent. They comprise seeds, bartes, rhizome, leaves fruits and other parts of plants, which belong to varigated species and genera since time immorial, india in renamed to be the have of spices. Most important spices like black pepper (king of spices) cardamom (queen of spices) cardamon (queen of spices), ginger, chilies and turmeric, which are produced in India import it great reputation and these constitute. The major group of spices. In the list of spices, clave, nutmeg, cinnamon and cassia are known as tree spices,

### Cost Estimation

Plant Capacity	2 MT/Day
Land & Building (1500 Sq.Mt.)	Rs. 1.30 Cr.
Plant & Machinery	Rs. 1.15 Cr.
Total Capital Investment	Rs. 4.40 Cr.
Rate of Return	54%
Break Even Point	49%

## DOOR HINGES (MILD STEEL AND STAINLESS STEEL)

**[EIRI-1648]**

Hinges have extensive applications in joining doors, windows and similar other structures requiring a movement of one flank with respect to a fixed frame. In housing, the door flanks can have an angular movement with respect to the door frames of wood or steel or aluminium. Its function is to joint one part to the other. Versatile operation of hinges have played a great role mechanisation and modernisation in present mechanised life. Hinges are extensively used in safes, almirahs, boxes of all sizes, machines covers etc. Mild steel is extensively being used for manufacturing hinges for all purposes but brass, S.S. and Aluminium hinges have also been manufactured because of their respective properties, uses and applications. Though the manufacturing process is same for all materials of hinges yet some balancing equipments are needed to be added with the main machineries when material changes.

### Cost Estimation

Plant Capacity	400 Kgs./Day
Land & Building (1000 Sq.Mt.)	Rs. 1.75 Cr.
Plant & Machinery	Rs. 48.20 Lacs
W.C. for 2 Months	Rs. 56.43 Lacs
Total Capital Investment	Rs. 2.97 Cr.
Rate of Return	20%
Break Even Point	58%

## CASHEW NUT PROCESSING [EIRI-1649]

Cashew (Anacardium occidentale L.) a native of Eastern Brazil introduced to India just as other commercial crops like Rubber, Coffee, Tea etc. by the Portuguese nearly five centuries back. The first introduction of cashew in India was made in Goa from where it spread to other parts of the country. In the beginning it was mainly considered as a crop for afforestation and soil binding to check erosions. The nuts, apple and other by products of this crop are of commercial importance. Though its commercial exploitation began from the early 60's, marginal lands and denuded forests were the areas set apart for the plantation development.

### Cost Estimation

Land & Building (1000 Sq.Mt.)	Rs. 1.39 Cr.
Plant & Machinery	Rs. 58.35 Lacs
W.C. for 1 Month	Rs. 84.27 Lacs
Total Capital Investment	Rs. 2.90 Cr.
Rate of Return	32%
Break Even Point	54%

## BIO GAS PRODUCTION & BOTTLING PLANT [EIRI-1650]

Energy is becoming a scarce and costly input in the world. Oil which accounts for a sizeable portion of our energy consumption, has been making a very heavy tax on our foreign exchange resources. Other than coal, we must also find alternate resources of energy centered around solar, wind, tidal and bio-gas.

An effective bio-gas programme leads to efficient use of cow dung for gas recovery and partial supplement to plant nutrient requirement. Bio-gas programme leads to improvement in rural living including rural sanitation. Conventional bio-gas digesters set up in India were predominantly of the Khadi Village Industries Commission Model.

### Cost Estimation

Plant Capacity	1500 Cubic Meter/Day
Land & Building (2000 Sq.Mt.)	Rs. 1.40 Cr.
Plant & Machinery	Rs. 1.00 Cr.
W.C. for 3 Months	Rs. 40 Lacs
Total Capital Investment	Rs. 4.86 Cr.
Rate of Return	26%
Break Even Point	50%

## ISOBOL PROCESSING UNIT [EIRI-1651]

Isobgol (psyllium) is a natural gift to India especially to the North Gujarat and the southern part of Rajasthan since in no other part of the world the climatic conditions are such that which are favourable for growing Isobgol crop. Isobgol is a Persian name which means horse's ear. (Isob means horse any gol means ear) The name completely suits the description of isobgol seed, as it is very much resembles horse's ear. The Isobgol seed has Two parts, the above thin white layer known as isobgol 'hush' or'sat' isobgol' and the inner red known as gola.

### Cost Estimation

Plant Capacity	1 MT/Day
Land & Building (600 Sq.Mt.)	Rs. 73 Lacs
Plant & Machinery	Rs. 14.75 Lacs
W.C. for 2 Months	Rs. 22.56 Lacs
Total Capital Investment	Rs. 1.16 Cr.
Rate of Return	56%
Break Even Point	39%

## 10 MW GRID INTERACTIVE SOLAR POLYCRYSTALLINE PV POWER PLANT [EIRI- 1652]

Grid interconnection of photovoltaic (PV) power generation system has the advantage of more effective utilization of generated power. However, the technical requirements from both the utility power system grid side and the PV system side need to be satisfied to ensure the safety of the PV installer and the reliability of the utility grid. Clarifying the technical requirements for grid interconnection and solving the problems are therefore very important issues for widespread application of PV systems. Grid interconnection of PV systems is accomplished through the inverter, which convert DC power generated from PV modules to AC power used for ordinary power supply for electrical equipments.

### Cost Estimation

Plant Capacity	10 MEGA WATTS
Land & Building (120000 Sq.Mt.)	Rs. 5.24 Cr.
Plant & Machinery	Rs. 56.00 Cr.
W.C. for 2 Months	Rs. 26 Lacs
Total Capital Investment	Rs. 61.86 Cr.
Rate of Return	21%
Break Even Point	60%

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20. P.V.C. RESIN FROM CALCIUM CARBIDE
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22. P.V.C. FLUSH CISTERN
23. RIGID PVC COMPOUNDED GRANULES FOR INJECTION MOULDING MACHINE (USED FOR PIPE FITTINGS, ELBOWS, SOCKETS, NUTS, ETC.)
24. uPVC DOORS & WINDOWS
25. uPVC DOORS & WINDOWS PROFILES

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### GROUND CALCIUM CARBONATE MICRONIZATION PLANT [EIRI-1653]

Calcite is a carbonate of calcium (CaCO<sub>3</sub>) containing 56% CaO and 44% CO<sub>2</sub>. It is one of the important industrial minerals also known as 'Calc Spar'. Pure crystallised transparent variety of calcite is known as 'Iceland Spar' which is used as Nicol prism in optical instruments using polarised light. Calcite is the most abundant crystalline form of calcium

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carbonate (CaCO<sub>3</sub>) Calcite limestone refers to a high-calcium limestone. As for hardness of calcite is concerned, pure calcite has a hardness of 3 Mohs, whereas naturally occurring limestone's lie in the range of 2-4 Mohs. Regarding the formation and occurrence of limestone/calcite mineral, this is widely distributed throughout the world in deposits of varying sizes and degrees of purity.

**Cost Estimation (US DOLLAR)**

Plant Capacity	30 MT/Day
Land & Building (1500 Sq.Mt.)	US\$ 2.17 Lacs
Plant & Machinery	US\$ 1.78 Lacs
W.C. for 2 Months	US\$ 97 Th.
Total Capital Investment	US\$ 6.88 Lacs
Rate of Return	24%
Break Even Point	58%

### SOYA MILK AND PANEER [EIRI-1654]

Soyabeans are very much popular as food crop in most of the countries all over the world where a large number of food products are prepared from soyabean seeds. As edible oil milk and milk products giving sources crop the soyabeans are getting wide acceptance. In India too since last few decades. Souyabean seeds have a high nutritional composition; and can be converted in to various states, tastes, colours, flavours and other quality substances. As far as the use of soyabean is concerned it has taken a place from soap industry to food industries like. The soya milk, in particular has been developed like a boon for human beings as large. The specialty lies in the fact that in the reasons when traditional cow milk buffalo milk is not available in sufficient quantity, this milk serves the purpose almost equitably to other animal milk type. Soybeans possess a very high nutritional value. It contains about 20 per cent oil and 40 per cent high quality protein (as against 7.0 per cent in rice, 12 per cent in wheat, 10 per cent in maize and 20-25 per cent in other pulses).

**Cost Estimation**

Plant Capacity	1 MT/Day
Land & Building	Rented
Plant & Machinery	Rs. 7 Lacs
W.C. for 1 Month	Rs. 9 Lacs
Total Capital Investment	Rs. 18 Lacs
Rate of Return	63%
Break Even Point	61%

### COCOA BUTTER AND COCOA POWDER WITH CULTIVATION [EIRI-1655]

Cocoa Powder (Cocoa) is the food prepared by pulverizing the material remaining after the part of fat (Cocoa Powder) is removed from chocolate liquor. The V.S.chocolate standards define three types of cocos based on their fat content. These are (a) Breakfast, or high fat cocoa containing not less than 22% fat. (b) Cocoa, or medium fat cocoa containing less than 22% but more than 10%. (c) Low fat cocoa, containing less than 10% fat. Cocoa

powder production to Day is an important part of the cocoa and chocolate industry, because of increased consumption of chocolate - flavoured products.

**Cost Estimation**

Plant Capacity	5 MT/Day
Land & Building (400 Acres)	Rs. 21.25 Cr.
Plant & Machinery	Rs. 2.29 Cr.
W.C. for 3 Months	Rs.3.36 Cr.
Total Capital Investment	Rs. 27.21 Cr.
Rate of Return	67%
Break Even Point	22%

### AUTOMATIC LINE FOR PROCESSING FRESH GINGER INTO DRY GINGER, GINGER, OIL, PASTE, POWDER & GINGER JUICE [EIRI-1656]

A genus of rhizomatous herbs distributed in the tropics of the old world, chiefly in India, East Asia and Malaysia. Fourteen, species are reported to occur in India Z-official, which is the main source of ginger, is cultivated on a large scale in India. Bangladesh, Taiwan, Jamaica, Nigeria and Sieria, Leone, from which it is exported to other countries the world and ginger is cultivated also for internal consumption in Sri Lanka (Ceylon) and several East Asiatic countries and the crop has been introduced into Queens hand in Australia mainly for pickling. Ginger is mentioned in the early literature of China and India as a spice. Thus it is one of the earliest of known spices. In the 16th century, the Spaniards introduced it into the West Indies and Mexico.

**Cost Estimation**

Land & Building (2.5 Acres)	Rs. 5.75 Cr.
Plant & Machinery	Rs. 2.50 Cr.
Total Capital Investment	Rs. 16.93 Cr.
Rate of Return	36%
Break Even Point	39%

### INSTANT FOOD MIX (IDLI MIX, DOSA MIX, SAMBAR MIX, VADA MIX GULABJAMUN MIX, DHUKLA MIX ETC.) [EIRI-1657]

Modern age has evolved an immense relish for fast food items which have become quite prevalent in view of their variety and palatability. Their demand is also enhancing at a tremendous pace. Among such food item, Dhokla, Dosa, Sambar, Gulab Jamun, Vada mix etc. constitute. Instant food mix. Their speciality owes to the significant progress in food technology. One great speciality is the facile availability of these food items at various shapes, vendors, and mobile food snacks parlours and these are very economical items.

**Cost Estimation**

Plant Capacity	600 KGS/Day
Land & Building (6000 Sq.Mt.)	Rs. 50 Lacs
Plant & Machinery	Rs. 12 Lacs
Total Capital Investment	Rs. 95.99 Lacs
Rate of Return	98%
Break Even Point	29%

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# 54

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## LIQUID GLUCOSE FROM POTATOES [EIRI-1530]

Potato is widely consumed as food all over the world. It contains the starch as a major carbohydrate. Surplus and cull potatoes are used as feed for live stock and also as raw material for the manufacture of starch, ethyl alcohol and a few other industrial products like, dextrose, liquid Glucose etc. The potato contains approximately 18-21% of carbohydrates. The major carbohydrate is starch. This starch is comprising 65-80% of the dry weight of the tuber, is calorifically the most important nutritional component. In the raw tuber, it is present as microscopic granules in levcoplasts lining the interior cell walls of parenchyma tissue. The granule is ellipsoidal in shape, 100N\*60N, with striations like an oyster shell. Under polarized light, the granule shows an irregular black cross. Electron micrographs reveal a surprising smooth surface structure. The ratio of amylase to amylopectine in potato starch is 24:76 and the gelatinization temperature ranges from 56oC to 69oC with water this starch forms a translucent paste of high viscosity. Freshly harvested mature tubers contain more sugars than the large ones. A slight rise in total sugars is observed when tubers are stored at 20-30oC. However when the storage temperature is 4oC or less., the total reducing sugars increase, the rate and extent of increase being greater when lower the temperature down to the freezing point. The maximum sugar concentration (3 to 10%) is reached after 4-8 weeks. Potato starch is produced from varieties selected and grown for their high starch, low protein and low fibre contents. In USA and else where, only surplus potatoes and tubes unsuitable for table use are used for starch production.

### Cost Estimation

Plant Capacity	25 MT./Day
Land & Building (5 Acres)	Rs. 3.39 Cr.
Plant & Machinery	Rs. 8.05 Cr.
W.C. for 2 Months	Rs. 2.12 Cr.
Total Capital Investment	Rs. 14.18 Cr.
Rate of Return	18%
Break Even Point	69%

## RIGID PVC FILM MANUFACTURE FOR PHARMACEUTICALS BLISTER PACKAGING [EIRI-1533]

Plastic films (PVC) have got wide uses including for garments and saree packaging. Polyvinyl chloride (P.V.C.) is one of if not the largest single volume plastics material in general use in the world. It is potentially one of the lowest cost materials. The French chemist Regnault first discovered P.V.C. in 1835 and it was initially marketed commercially in 1827. P.V.C. has achieved this market leadership because of its good physical properties, its compounding versatility for a wide variety of applications, its low cost, and processing ease. These desirable properties include self extinguishing characteristics, water, chemical and abrasion resistance, good strength

properties and a complete range of colours. The compounds range from soft flexible films, to rigid, high strength products. Plasticizers lubricants, fillers and stabilizers are used to produce this versatility and it possible to make a compound with a right balance of properties for almost any application. P.V.C. products will melt but will not burn and good weather ability has been achieved by compounding. There are various theories on compounding of P.V.C. but the PVC processor especially in small scale sector in India because of lack of availability and high price of sophisticated equipments instruments testing facilities trained technical personnel, raw materials looks forward to something practical which wood benefit him in knowing the best possible and most economical method of PVC compounding. Compounding process includes (i) formulation of compound according to the properties desired (ii) Palletizing. The palletizing process is done either by rotary knife cutter or granulator.

### Cost Estimation

Plant Capacity	2 Ton/Day
Land & Building (1500 sq.mt.)	Rs. 2.10 Cr.
Plant & Machinery	Rs. 3.93 Cr.
W.C. for 3 Months	Rs. 1.33 Cr.
Total Capital Investment	Rs. 7.75 Cr.
Rate of Return	30%
Break Even Point	51%

## PRESTRESSED CONCRETE POLES (PSC POLES) [EIRI-1534]

Wooden, steel and concrete poles were used for power distribution lines since 19th century. The first poles used were wooden poles. When demand for poles increase and as the power lines under construction required longer poles suitable for resisting larger horizontal forces, steel poles were introduced in substitution to wood. Though both materials are still in use through out the world, with wood primarily used for short length small forces country lines the general trend is to substitute both the materials with concrete and Use reinforced and prestressed concrete poles instead. Wooden have limited life and steel poles have a longer life compared to wooden poles requires continuous maintenance for protection against corrosion concrete and particularly prestressed concrete poles can be considered as having an unlimited life without maintenance cost for their corrosion protection. Poles supporting power lines are subjected to relatively small vertical forces and primarily to large horizontal forces at bottom. The horizontal forces at their top are smaller along the axis of the power line & much larger on direction perpendicular to it.

### Cost Estimation

Plant Capacity	117 Nos/Day
Land & Building (16000 sq.mt.)	US\$10.60 Lacs
Plant & Machinery	US\$ 10.89 Lacs
W.C. for 2 Months	US\$ 5.56 Lacs
Total Capital Investment	US\$ 27.56 Lacs
Rate of Return	36%
Break Even Point	60%

1. AUTOMOBILE PAINTS
2. ALUMINIUM PAINT
3. ACRYLIC COPOLYMER EMULSION
4. ACRYLIC EMULSION PAINTS
5. BITUMINOUS BASED CORROSION RESISTANT
6. CEMENT PAINT
7. CLEAR TRANSPARENT LACQUER FOR COATING ON BRASS BANGLES TO MAKE IT WEATHER-RESISTANT
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9. DRY DISTEMPER AND CEMENT PAINT
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16. GLASS COATING SOLUTION
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19. INSULATING VARNISH (POLY VINYL BUTYRAL BASED, FFC GRADE)
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28. PAINT DRIERS
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30. PAINT AND REDUCER
31. PRIMER PAINTS, ENAMEL PAINTS & DISTEMPER
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37. PHENOL FORMALDEHYDE RESIN
38. POLY AMIDE RESIN
39. REFRACTORY PAINT (GRAPHITE BASED)
40. RED OXIDE PIGMENTS
41. STOVING PAINT
42. SILICONE EMULSION FOR TEXTILE
43. STAINER FOR PAINTS
44. SOLVENTS & THINNERS
45. TEXTURE PAINTS
46. THINNERS
47. THINNERS (ETHYL ALCOHOL BASED)
48. THINNERS (WHITE SPIRIT BASED)
49. UREA FORMALDEHYDE RESIN
50. UNSATURATED POLYESTER RESINS
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# Start Your Own Industry

## FROZEN POTATO PATTY [EIRI-1529]

Frozen potato patty is an important snacks food having good demand and is being appreciated by masses. Freezing food preserves it from the time it is prepared to the time it is eaten. Freezing food slows down decomposition by turning residual moisture into ice, inhibiting the growth of most bacterial species. In the food commodity industry, there are two processes: mechanical and cryogenic (or flash freezing). The freezing kinetics is important to preserve the food quality and texture. Quicker freezing generates smaller ice crystals and maintains cellular structure. Cryogenic freezing is the quickest freezing technology available due to the ultra low liquid nitrogen temperature (-196°C). Frozen products do not require any added preservatives because microorganisms do not grow when the temperature of the food is below -9.50°C, which is sufficient on its own in preventing food spoilage.

### Cost Estimation

Plant Capacity	8 Ton/Day
Land & Building (1500 sq.mt.)	Rs. 2.23 Cr.
Plant & Machinery	Rs. 8.35 Cr.
W.C. for 3 Months	Rs. 4.67 Cr.
Total Capital Investment	Rs. 16.06 Cr.
Rate of Return	24%
Break Even Point	59%

## HYDROXY PROPYL GUAR (HPG) AND CARBOXY METHYL HYDROXY PROPYL GUAR [EIRI-1526]

The guar bean tetragonolobus, an annual legume, is the source of guar gum. It grows best under conditions with frequent rainfall, but tolerates arid conditions well. India grows 80% of world production of Guar gum but due to strong demand, it is being introduced into new areas. It is mainly grown in areas of India (Rajasthan, Haryana, Gujarat and Punjab) Pakistan, Sudan, and USA. India produces 6.0 7.5 lakh tons of guar annually. In India Rajasthan and Haryana states contribute 85% of the total production. In Rajasthan, the district Jaisalmer, Barmer, Nagaur, Hanumangarh Jhunjhunu and Sikar. The districts in Haryana indulged in the production of guar are Bhiwani, Sirsa, and Rewari and the districts in Gujarat are Kutch, Banaskantha, Ahmedabad. Jodhpur city in Rajasthan is one of the India. Guar also known as cluster bean (leguminous crop). Guar is being grown for seed, is an annual plant, about 4 feet high, vertically Each pod is about 5-8 cm long and has seeds.

### Cost Estimation

Plant Capacity	30 MT./Day
Land & Building (4000 sq.mt.)	Rs. 5.70 Cr.
Plant & Machinery	Rs. 1.90 Cr.
W.C. for 3 Months	Rs. 30.47 Cr.
Total Capital Investment	Rs. 38.51 Cr.
Break Even Point	25%

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## TOMATO, GUAVA AND MANGO PULP [EIRI-1523]

Guava is a pear or round shaped fruit growing in the tropical region. Guava is one of the most common plants abundantly grown in all regions of India. The trees are usually narrow and trunked. There is almost no bark in these trees. The fruit is characterized by white interior. The inside of the fruit is highly fleshy with a number of hard seeds. Guava fruit is one of the richest sources of Vitamin C. There is also a good amount of pectin in this fruit. A good quality commercial pulp is obtained by passing the guava fruit extracts through 0.7mm sieve. India is the home of mangoes.

### Cost Estimation

Plant Capacity	80 Ton/Day
Land & Building (Area 5 Acres)	Rs. 9.05 Cr.
Plant & Machinery	Rs. 10.41 Cr.
W.C. for 1 Months	Rs. 4.34 Cr.
Total Capital Investment	Rs. 24.39 Cr.
Rate of Return	42%
Break Even Point	43%

## PARTICLE BOARD FROM RICE HUSK OR WOOD WASTE OR SUGARCANE BAGASSE OR MIXED OF ALL ABOVE [EIRI-1521]

Development of particle and fibre board has been consequential to man's quest for optimum utilization of timber and wood wastes which earlier were used mainly as fuel. Initial development of particle board took place in Germany during the Second World War when its timber supplies were practically cut-off from the supplying countries. Particle board plants were set up in postwar West Germany to meet the demand for reconstruction. In the fifties particle board manufacturing plants were set up in Europe and USA. The industry has now developed throughout the world. The origin of fibre board can be traced back to the beginning of 20th century in England and USA. It received a fillip in 1934 as a Swedish engineer developed the defibrator process or thermo mechanical pulping process.

### Cost Estimation

Plant Capacity	4 MT./Day
Land & Building (4000 sq.mt.)	Rs. 5.41 Cr.
Plant & Machinery	Rs. 1.25 Cr.
W.C. for 2 Months	Rs. 51 Lacs
Total Capital Investment	Rs. 7.31 Cr.
Rate of Return	37%
Break Even Point	44%

## LIQUID GLUCOSE FROM BROKEN RICE [EIRI-1516]

Starch is a group of polysacchrides, composed of glucopyranose units joined together by glucosidric linkages. It conforms to the molecular formula, (C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)<sub>n</sub>, where n varies from a few hundred to over one million. Starch is found as the reserve carbohydrate in various parts of plants and is enzymatically broken down to glucose to other erbohydbrates according to the metabolic needs of the plants.

Industrially, starch is broadly divided into two types viz, natural and modified. Natural starches, also designated as unmodified starches or simply starches, are obtained from grains such as and sorghum. from roots like potato, tapioca and arrow root, and from the pith of the stems of certain palms such a sago. The characteristics of the natural starches are changed by chemical or enzymatic action and the products of these reactions are termed modified starches. This group includes dextrins, acid-modified starches, oxidized starches, starch esters, starch ethers, dialdehyde starches, and cationic starches.

### Cost Estimation

Plant Capacity	40 MT./Day
Land & Building (16'000 sq.mt.)	Rs. 13.47 Cr.
Plant & Machinery	Rs. 4.60 Cr.
Total Capital Investment	Rs. 24.43 Cr.
Rate of Return	36%
Break Even Point	47%

## MINI FLOUR MILL (ATTA, MAIDA, SUJI) [EIRI-1511]

The plant will have facility to produce, Maida, Sooji, Atta and bran. These products will be sold as per the guidance issued for Food and Civil Supplies Department of the concerned state. The same plant can be used to process other cereals such as rice gram, dal etc However, attempt is made have to examine feasibility and profitability of processing wheat to produce Maida, Sooji, Atta and bran. Flour mill serve the purpose of processing wheat to convert it into flour. Wheat grains are the seeds of the wheat plant which is able to grow in kinds of soil and under widely differing climatic conditions.

### Cost Estimation

Plant Capacity	40 MT./Day
Land & Building (2000 sq.mt.)	Rs. 2.55 Cr.
Plant & Machinery	Rs. 57 Cr.
Total Capital Investment	Rs. 5.39 Cr.
Rate of Return	41%
Break Even Point	42%

## DRY WALL PUTTY (WHITE CEMENT BASED) [EIRI-1475]

White cement based Wall Putty a plastering material to fill the holes and patches before paint primer or distemper. In general, fillers & stoppers are paste-like materials, highly pigmented, used to fill surface imperfections (fillers) and to make good gross surface defects prior to painting operations (stoppers). It renders to the surface, smooth bright white coating suitable for over coating by different kinds of water and solvent based paints.

### Cost Estimation

Plant Capacity	100 Ton./Day
Land & Building (1200 sq.mt.)	Rs. 1.20 Cr.
Plant & Machinery	Rs. 79 Cr.
W.C. for 1 Months	Rs. 4.25 Cr.
Total Capital Investment	Rs. 6.44 Cr.
Rate of Return	29%
Break Even Point	62%

# Top Industries to Start

## CELLULAR LIGHTWEIGHT CONCRETE BRICKS (CLC BRICKS) [EIRI-1450]

Bricks remain one of the most important building materials in the country. Brick making is a traditional industry in India, generally confined to rural areas. In recent years, with expanding urbanization and increasing demand for construction materials, brick kilns have to grow to meet the demand. It has directly or indirectly caused a series of environmental and health problems. At a local level, environmental pollution from brick-making operations is injurious to human health, animals and plant life. At a global level, environmental pollution from brick-making operations contributes to the phenomena of global warming and climate change. Also, extreme weather may cause degradation of the brick surface due to frost damage. Global warming and Environmental pollution is now a global concern. Cellular Light Weight Technology blocks can be used as an alternative to the red bricks, to reduce Environmental pollution and Global warming. CLC blocks are environment friendly. The energy consumed in the production of CLC blocks is only a fraction compared to the production of red bricks and emits no pollutants and creates no toxic products or by products.

### Cost Estimation

Plant Capacity	60 Cubic Mt./Day
Land & Building (10,000 sq.mt.)	Rs. 10.11 Cr.
Plant & Machinery	Rs. 85 Lacs
W.C. for 2 Months	Rs. 66 Lacs
Total Capital Investment	Rs. 12.21 Cr.
Rate of Return	23%
Break Even Point	52%

## CONVERSION WASTE PLASTIC WITH TYRE INTO ACTIVATED CARBON AND INDUSTRIAL FUEL [EIRI-1444]

The disposal of plastic waste and used tyre by land filling is becoming an increasingly serious problem from an environmental and economic stand point, a better solution is to reprocess tyre into valuable products such as activated carbon other solid carbon form (e.g. carbon black) and liquid and gaseous fuel. A process design is proposed which involves pyrolysis of plastic waste and used tires, activation of the solid residue, partial combustion of liquid to produce carbon black and the use of high BTU gas for process heat. The activation of the solid residue is done using CO<sub>2</sub> which produces CO and activated carbon. The CO<sub>2</sub> is regenerated and the lost carbon is recovered using the boudouard reaction to produce CO<sub>2</sub> and finely divided carbons.

### Cost Estimation

Plant Capacity	1 Ton/Day
Land & Building (Area 600 sq.mt.)	Rs. 82 Lacs
Plant & Machinery	Rs. 40 Lacs
W.C. for 1 Months	Rs. 6 Lacs
Total Capital Investment	Rs. 1.31 Cr.
Rate of Return	15%
Break Even Point	70%

## RICE MILL [EIRI-1359]

Rice sheller is the process that helps in removal of hulls and bran from Paddy grains to produce polished rice. The objective of rice milling is to get whole grain rice and preserve most of the rice kernel, in their approximate original shape. In order to improve nutritional and cooking quality of rice, a pre-treatment is given to paddy and the rice so obtained by milling the pretreated paddy is known as parboiled rice. The rice obtained from milling untreated rice is known as raw rice or white rice. Primary milling of rice is an important activity in food grains. Rice is used in almost all parts of India. Few decades ago, rice grains were processed at family level before cooking.

### Cost Estimation

Plant Capacity	40 Ton/Day
Land & Building (1.5 Acres)	Rs. 3.35 Cr.
Plant & Machinery	Rs. 2.23 Cr.
W.C. for 3 Months	Rs. 5.07 Cr.
Total Capital Investment	Rs. 10.97 Cr.
Rate of Return	41%
Break Even Point	40%

## DISPOSABLE PLASTIC SYRINGES (STERILISED) [EIRI-1138]

With the development of Intravenous and Intramuscular inspection use of syringes for effecting transfer of medicines to human body for desired quick results has become inevitable. With growing consciousness of sterilization and spreading of diseases uses of plastic disposable syringes have been developed and are being preferred. In fact syringes are instruments which are used for injecting liquid into body of human beings or of animals. It curiosity of a cylinder and a air tight pistons. These syringes are available in sizes varying from 2 c.c. to 100 c.c. Most popular and commonly used sizes are 2 c.c. other sizes are also frequently used but to a lesser extent.

### Cost Estimation

Plant Capacity	67200 Nos/Day
Land & Building (1000 Yard)	Rs. 1.92 Cr.
Plant & Machinery	Rs. 1.87 Cr.
W.C. for 2 Months	Rs. 1.29 Cr.
Total Capital Investment	Rs. 5.25 Cr.
Rate of Return	61%
Break Even Point	40%

## DISPOSABLE PAPER CUPS, GLASSES & PLATES [EIRI-0838]

Paper Items such as paper cups, saucers, Glass, paper plates is finding extensive usage these days for serving eatables in parties, functions and social gatherings. Paper plates are the most commonly used disposable crokery in India. Paper consists of sheet materials and are comprised of bonded small discrete fibers which are usually cellulosic in nature and are held together by secondary bonds most probably the hydrogen bonds. Paper is made in a wide variety of types and grades to serve many functions. Writing and printing papers constitute approx 30% of the

total production.

### Cost Estimation

Plant Capacity	500 KGS/Day
Land & Building (450 sq.mt.)	Rs. 3 Lacs
Plant & Machinery	Rs. 5 Lacs
W.C. for 3 Months	Rs. 21 Lacs
Total Capital Investment	Rs. 30 Cr.
Rate of Return	35%
Break Even Point	46%

## DISPOSABLE PLASTIC CUPS, GLASS ETC. [EIRI-0563]

Today consumption of Disposable products is breaking records. Disposable products are easy to handle, economical and can be disposed easily. With the changing lifestyle of Mankind, the use of disposable products is raising like anything. Plastic Disposable products are very popular because it can be carried easily, and very low in prices too. There is a huge variety available in Plastic Disposable products. Plastic Disposable products are like a gift for today's hectic lifestyle, they save your energy and money both. The products designed to disposed easily after use are called Disposable products & the products which are made with any kind of plastic and can be disposed easily after use are known as Disposable Plastic Products.

### Cost Estimation

Plant Capacity	30000 Nos./Day
Land & Building (350 sq.mt.)	Rs. 20 Lacs
Plant & Machinery	Rs. 12 Lacs
W.C. for 1 Months	Rs. 1 Lacs
Total Capital Investment	Rs. 34 Lacs
Rate of Return	25%
Break Even Point	62%

## BIO -DIESEL EXTRACTION FROM JATROPHA, SOYABEAN, SUNFLOWER, RICE BRAN, ALGE & CULTIVATION OF JATROPHA [EIRI-1333]

Bio-diesel is forming a promising sustainable source of energy and is gaining world wide acceptance as a solution to problems of environmental degradation, energy insecurity and restrictive price structure. Therefore the production of Bio-diesel is becoming an increasingly important element in global energy policies. India, a fast growing economy is facing the challenge of meeting a rapid increase in its energy demand. Price of Detailed Project Report is Rs. 18,000/- Only.

### Cost Estimation

Plant Capacity	40 MT./Day
Land & Building (12,300 sq.mt.)	Rs. 3.18 Cr.
Plant & Machinery	Rs. 4.55 Cr.
W.C. for 2 Months	Rs. 7.98 Cr.
Total Capital Investment	Rs. 15.88 Cr.
Rate of Return	74%
Break Even Point	25%

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# Best Industries to Start and Grow

## PLASTIC WATER STORAGE TANKS [EIRI-1487]

The term Plastics usually refers to a large and varied group of synthetic materials which are solid in finished form but at some stage in their processing are fluid enough to be shaped by application of heat and pressure. The use of plastics in building has grown rapidly in the last few years. Plastics were first used for decorative and non structural purposes but because of increased knowledge of the long term properties of plastics particularly resistance to creep and environmental effects some plastics are now available that maintain long term structural integrity, such as piping, doors and windows, water tanks that can contain moderate pressures for a long period of time.

### Cost Estimation

Plant Capacity	30 Nos./Day
Land & Building (4000 sq.mt.)	Rs. 30 Lacs
Plant & Machinery	Rs. 1.14 Cr.
W.C. for 3 Months	Rs. 69 Lacs
Total Capital Investment	Rs. 2.22 Cr.
Rate of Return	40%
Break Even Point	47%

## ALUMINIUM COMPOSITE PANELS (ACP) [EIRI-1489]

Aluminium Composite Panels (ACP) are mainly light-weight composite material consisting of two pre-finished aluminium cover sheets heat-bonded (laminated) to a core made of polyethylene plastic material, available in 3mm, 4mm and 6mm thicknesses after finishing and can be curved and bent to form corners. These panels are used widely as exterior covering of commercial buildings and corporate houses. While adding to aesthetic beauty of the structure, they are also resistant to acid, alkali salt spray, pollution and provide good thermal as well as sound insulation. These Panels are widely used due easy maintenance in almost any kind of climate through normal wash with water and mild detergent that ensures long lasting performance.

### Cost Estimation

Plant Capacity	6000 sq.mt./Day
Land & Building (10,000 sq.mt.)	Rs. 14.41 Cr.
Plant & Machinery	Rs. 3.94 Cr.
W.C. for 2 Months	Rs. 21.48 Cr.
Total Capital Investment	Rs. 40.54 Cr.
Rate of Return	27%
Break Even Point	54%

## CATHETERS MANUFACTURING [EIRI-1490]

A catheter is a flexible tube made of latex, silicone, or Teflon that can be inserted into the body creating a channel for the passage of fluid or the entry of a medical device. For many years the epidermal catheters used were plain tubes made of available industrial compounds, and design was largely based on current need. Catheters are designed to perform tissue

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ablation (tissue removal) and even serve as conduits for thermal, optics, and various medical devices. The three major types of catheters are coronary, renal, and infusion. Coronary catheters are used for angiography (x-ray of blood vessels after injection of radiopaque substance), angioplasty (altering the structure of a vessel) and ultrasound procedures in the heart or in peripheral veins and arteries.

### Cost Estimation

Plant Capacity	2000 Tubes/Day
Land & Building (Area 1 Acre)	Rs. 2.03 Cr.
Plant & Machinery	Rs. 3.73 Cr.
W.C. for 1 Months	Rs. 1.13 Cr.
Total Capital Investment	Rs. 8.27 Cr.
Rate of Return	18%
Break Even Point	69%

## FORMALDEHYDE RESIN (UREA, PHENOL, MELAMINE & THEIR MODIFIED RESINS) [EIRI-1491]

Approximately 1 million metric tons of urea-formaldehyde resin are produced annually. More than 70% of this urea-formaldehyde resin is used by the forest products industry for a variety of purposes. The resin is used in the production of an adhesive for bonding particleboard (61% of the urea-formaldehyde used by the industry), medium density fiberboard (27%), hardwood plywood (5%), and a laminating adhesive for bonding (7%), for example, furniture case goods, overlays to panels, and interior flush doors. Urea-formaldehyde resins are the most prominent examples of the class of thermosetting resins usually referred to as amino resins.2,3

### Cost Estimation

Plant Capacity	30 MT/Day
Land & Building (3 Acres)	Rs. 7.52 Cr.
Plant & Machinery	Rs. 2.11 Cr.
Total Capital Investment	Rs. 14.73 Cr.
Rate of Return	56%
Break Even Point	36%

## EPDM RUBBER PROFILES (WEATHER STRIPS, INDUSTRIAL MONO STRIPS) [EIRI-1492]

Ethylene Propylene Diene Monomer Rubber, also named as EPDM in short, is the polymer of ethylene and propylene. Large scale commercial production began in 1963 and the current overall global consumption of EPDM are 800,000 tons per year. EPDM is polyolefine - categorized and has excellent performance of vulcanization and its gravity is the lowest among all rubbers. These are radon copolymers of the two hydrocarbons ethylene and propylene with the ethylene varying from 40 to 70% by weight. This produces a saturated rubber, EPM, which has to be vulcanized with peroxide systems.

### Cost Estimation

Plant Capacity	3 MT./Day
Land & Building (3000 sq.mt.)	Rs. 3.96 Cr.
Plant & Machinery	Rs. 2 Cr.
Total Capital Investment	Rs. 8.60 Cr.
Rate of Return	37%
Break Even Point	43%

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# Start Your Own Industry

## GRANITE CUTTING AND POLISHING UNIT [EIRI-1493]

Granite Slab and Tiles are used in building for the purpose of wall paneling and for the decoration of walls.

### Cost Estimation

Plant Capacity	8000 sq.ft./Day
Land & Building (14457.6 sq.mt.)	Rs. 6.07 Cr.
Plant & Machinery	Rs. 15.01 Cr.
Total Capital Investment	Rs. 31.86 Cr.

## HDPE, PVC, LLDPE PIPES/ TUBES & FITTING [EIRI-1497]

PVC is a thermosetting plastic. In other words, it can only be softened and molded into form once. If it is softened and remolded a second time it will lose some of its favorable characteristics. PVC is very corrosion resistant. It is not a conductor and will not have an electrochemical reaction with acids and bases that it comes in contact with. For this reason, PVC is sometimes used to coat other materials for protection. PVC also has a high chemical resistance. While it will react with some chemicals, there are a large number of chemicals it will not react with, making it an excellent product for industrial applications. PVC is not without its faults.

### Cost Estimation

Plant Capacity	5 MT./Day
Land & Building (75,000 sq.ft.)	Rs. 6.17 Cr.
Plant & Machinery	Rs. 1.38 Cr.
Total Capital Investment	Rs. 8.67 Cr.
Rate of Return	25%
Break Even Point	56%

## PARTICLE BOARD FROM RICE HUSK [EIRI-1499]

The technology for manufacture of Rice Husk Particle Board, developed at the Indian Plywood Industries Research Institute, Bangalore, has emerged as one of the best solutions to this problem as it helps to maintain the ecobalance and preserves the eco-system. Patents have been filed in India and many other rice growing countries. This board has emerged as a versatile substitute for wood in a wide range of applications. Moreover, these boards can also be made decorative. The process has been licensed to several firms in India and a turnkey plant has been set up in Malaysia. The firm has also produced floor tile (out of rice husk), fire resistant doors, etc. having granite like finish. What is more, the licensee of the technology has helped to build up a large number of low cost houses after the Gujarat earthquake.

### Cost Estimation

Plant Capacity	2 Ton/Day
Land & Building (3000 sq.mt.)	Rs. 3.08 Cr.
Plant & Machinery	Rs. 28 Lacs
Total Capital Investment	Rs. 4.50 Cr.
Rate of Return	35%
Break Even Point	66%

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## PLASTIC GRANULES FROM PLASTIC WASTE & PLASTIC ROPE (SUTLI) PLANT [EIRI-1231]

Plastics today have a prominent place in the spectrum of materials frequently used by materials engineers and designers. They have earned this placed on the basis of performance at a price, plus the apparently unlimited ability of the plastics industry to develop new plastics or new grades of older plastics to meet specific needs of modern industry.

### Cost Estimation

Plant Capacity	100 Kg/hr. Plastic Granules
	100 Kg/hr. Plastic Rope (Sutli)
Land & Building (2000 sq.mt.)	Rs. 99 Lacs
Plant & Machinery	Rs. 38 Lacs
Total Capital Investment	Rs. 1.81 Cr.
Rate of Return	21%
Break Even Point	67%

## IRON ORES PELLETIZATION PLANT [EIRI-1170]

Iron Ore Pellets are used in blast furnaces for producing sponge iron & steels. Marked by high productly lower fuel consumption and improved furnace control, pellets are now preferred all over the world for primary steel making. An iron ore pelletization unit can submit an IEM to SIA of ministry of Steel Industry to set-up a plant of mfg. capacity = 18 lakh tonners pa. This project could be 100% EOU/EOU or an ancillary to a sponge iron plant. This plant can be set-up near an iron ore concentration site or a sponge iron plant or near a sea port for respective benefits of transportation costs saving on transfer of raw materials and /or finished products in between the point of importance & the plant.

### Cost Estimation

Plant Capacity	500 MT./Day
Land & Building (120000 sq.mt.)	Rs.102.76 Cr.
Plant & Machinery	Rs. 35.36 Cr.
W.C. for 2 Months	Rs. 19.70 Cr.
Total Capital Investment	Rs. 160.97 Cr.
Rate of Return	36%
Break Even Point	40%

## M.S. BILLET CASTING WITH INDUCTION FURNACE FROM STEEL SCRAP & SPONGE IRON [EIRI-1058]

Mild steel Billets are the basic raw material for manufacturing various types of re-rolled products. Mild steel billets are used for mechanical engineering works such as manufacturing machines and their parts. Steel billets are used for production of plate, sheets, strips, rod etc. by hot Rolling and cold Rolling process. It is the commercial forms of steels mill products which are directly used in the Engineering Industries. A variety Additional operations like cold Rolling, Machining, Heat Treatments and Fabrications are carried out on final mill Products in order to make them suitable for use. However, is the steel billets is the first form of steel for producing other shapes

by rolling, forging or extrusion process.

### Cost Estimation

Plant Capacity	174 MT./Day
Land & Building (2500 sq.mt.)	Rs. 3.25 Cr.
Plant & Machinery	Rs. 1.38 Cr.
W.C. for 3 Months	Rs. 41.91 Cr.
Total Capital Investment	Rs. 46.88 Cr.
Rate of Return	33%
Break Even Point	44%

## BANANA CHIPS, BANANA PULP & BANANA POWDER (BANANA PRODUCTS) [EIRI-1483]

Banana is a globally important fruit crop with 97.5 million tones of production. In India it supports livelihood of million of people. With total annual production of 16.91 million tones from 490.70 thousand ha., with national average of 33.5 T/ha. Maharashtra ranks first in production with 60 T/ha. Banana contributes 37% to total fruit production in India. Banana is one of the major and economically important fruit crop of Maharashtra. Banana occupy 20% area among the total area under crop in India. Maharashtra ranks second in area and first in productivity in India. Jalgaon is a major Banana growing district in Maharashtra which occupy 50,000 hectares area under Banana. But most of Banana is grown by planting suckers. The technology development in agriculture is very fast, it results in developing Tissue Culture Technique.

### Cost Estimation

Plant Capacity	2.50 Ton./Day
Land & Building (2000 sq.mt.)	Rs. 88 Lacs
Plant & Machinery	Rs. 63 Lacs
W.C. for 2 Months	Rs. 1.02 Cr.
Total Capital Investment	Rs. 2.64 Cr.
Rate of Return	31%
Break Even Point	54%

## FUSED SILICA FROM SILICA SAND [EIRI-1481]

Fused silica is a high purity silicon dioxide is either transparent or translucent. The nontransparent fused material contains a large number of microscopic bubbler that create a milky appearance causes by the scattering of light. This material is sometimes called as a translucent fused silica. Fused silica is available in a number of grade for different application. Fused silica is used for window, lenses prism and other application. Fused silica should apply to any foam of vitreous silica manufactured by fusion, however it has been used by some to denote all vitreous silica not produced by quartz fusion and by other for only the translucent vitreous silica.

### Cost Estimation

Plant Capacity	40,000 MT./Day
Land & Building (5 Acres)	Rs. 13.10 Cr.
Plant & Machinery	Rs. 4.28 Cr.
Total Capital Investment	Rs. 26.79 Cr.
Rate of Return	19%
Break Even Point	71%



# Top Industries to Start

## **OT PASTE [EIRI-1478]**

Wetting agent (OT Paste) used for textile industry. Diocetyl sodium sulfosuccinate as OT Paste is a white wax like solid with characteristic odor. It is sparingly soluble in water and freely soluble in alcohol, glycerol, Carbon tetrachloride, acetone xylene. It saponification value varies from 240-253 and is stable in acid and neutral solution. It hydrolyzes in alkaline solution. OT Paste is used as a wetting Agent in textile industries. OT Paste Wetting Agents is anionic product, thick paste, 0.5% of weight of cotton fiber of cloth instantaneously wets it. Industrial

### **Cost Estimation**

Plant Capacity	1 Ton./Day
Land & Building (800 sq.mt.)	Rs. 1.01 Cr.
Plant & Machinery	Rs. 22 Cr.
W.C. for 3 Months	Rs. 65 Cr.
Total Capital Investment	Rs. 1.93 Cr.
Rate of Return	26%
Break Even Point	54%

## **TOMATO PROCESSING UNIT [EIRI-1022]**

Tomato processing unit/Tomato Puree is the name implies to tomato Pulp which is concentrated by the evaporators either open pan or vacuum evaporators. It is prepared by concentrating tomato juice or pulp without seeds and skin. It is used for preparation of various products such as Sauces, Ketchup, Chutney, Soup, Tomato Juice. Tomatoes are taken, which are well-ripened. So the fresh ripen tomatoes are very refreshing and appetising. they are good source of vitamins. The main tomato producing states are A.P., Bihar, M.P. Punjab, Tamil nadu, West Bengal and Maharashtra. Two varieties of tomatoes are available in India then are the large round ones which are quite sour and the tongish type which are sweetish and less sour.

### **Cost Estimation**

Plant Capacity	20000 MT./Year
Land & Building (3000 sq.mt.)	Rs. 1.71 Cr.
Plant & Machinery	Rs. 6.89 Cr.
W.C. for 1 Months	Rs. 1.19 Cr.
Total Capital Investment	Rs. 10.09 Cr.
Rate of Return	23%
Break Even Point	58%

## **HARD ANODISED PRESSURE COOKERS AND UTENSILS [EIRI-1023]**

Pressure Cookers are conventionally made of Aluminium Alloys sheet or Circles. In Recent years stainless steel has penetrated into this field. As stainless steel is not thermally so efficient as Aluminium, the latest trends towards manufacture of Pressure Cookers with Copper clad bottom of pressure cookers. In every family utensils of different metals are used made of steel, Brass, Aluminium, Copper etc. More over utensils of every metals has a definite significance of its own but aluminium utensils are especially used by lower class people Because It is light, quite reasonable and with high heat bearing

capacity. Because of these physical qualities and durability, Aluminium utensils have high demand and its demand is only increasing with each passing day with the increase in population. Although the major demand for aluminium utensils is in rural area, yet its popularity is also increasing in urban areas.

### **Cost Estimation**

Land & Building (Area 500 sq.mt.)	Rs. 87 Lacs
Plant & Machinery	Rs. 45 Lacs
W.C. for 3 Months	Rs. 2 Cr.
Total Capital Investment	Rs. 3.41 Cr.
Rate of Return	75%
Break Even Point	38%

## **FRUITS AND VEGETABLES DRYING BY FREEZE DRYING METHOD [EIRI-1039]**

The modern method of dehydration, i.e. drying fruits and vegetables under controlled conditions of temperature and humidity is however, assuming importance as a major industry. The dehydration industry got an impetus during the World War II. On account of their concentrated form, low cost, convenience and easy transportability, dried fruit and vegetable products and also other dehydrated foods became highly popular among the armed forces. Dehydrated vegetables, however, lost some of their popularity owing to some undesirable changes in colour, taste and flavour during storage and distribution.

### **Cost Estimation**

Plant Capacity	1.50 Ton./Day
Land & Building (Area 2 Acres)	Rs. 5.31 Cr.
Plant & Machinery	Rs. 5.85 Cr.
W.C. for 3 Months	Rs. 1.26 Cr.
Total Capital Investment	Rs. 12.67 Cr.
Rate of Return	60%
Break Even Point	31%

## **STEEL ROLLING MILL (BY INDUCTION FURNACE) [EIRI-1041]**

The products of steel plants are in the form of structural shapes such as I-sections, channels, angles, plates, rails, sheets, axles and wheels for railways, merchant products lime rounds, hexagons, squares, strips etc. Galvanized sheets, tin-plates, wire-rods and soon. Rails, wheels and axles are specifically meant for railways which are a large consumer of steel. These are specifically used directly as supplied by steel plant. However, the remaining products of a steel plant, by and large, are processed further in engineering industries before their actual use. These products are therefore often called as 'Semis' meaning thereby that they are semi-finished steel products only.

### **Cost Estimation**

Plant Capacity	350 MT./Day
Land & Building (50,000 sq.mt.)	Rs. 54.70 Cr.
Plant & Machinery	Rs. 5.77 Cr.
W.C. for 2 Months	Rs. 58.88 Cr.
Total Capital Investment	Rs. 120.06 Cr.
Rate of Return	49%
Break Even Point	42%

## **POLY ALUMINIUM CHLORIDE [EIRI-1018]**

Aluminium chloride hydroxide [1327-41-9], [10284-64-7], AlCl (OH)<sub>2</sub> [14215-15-7], AlCl<sub>2</sub>(OH), products, commonly known as polyaluminium chlorides (PAC), are used for a wide variety of industrial applications. Other names for PAC are basic aluminium chloride, polybasic aluminium chloride, aluminium hydroxychlorid, aluminium oxychloride and aluminium chlorohydrate. The presence of polymeric, aluminium-containing cations, the distribution of which can differ greatly, typifies PAC products. Although the formation of polynuclear aluminium species in solution has been studied for over a century, there is still much controversy concerning aluminium polymerization reactions and the resulting product compositions. Polyaluminium chloride is a partially hydrolyzed aluminium chloride solution, which may incorporate a small amount of sulphate, has been introduced in Japan, England and Australia as an alternative to alum. Known as poly(aluminium chloride) or poly (aluminium hydroxy chloride is a member of the family of basic aluminium chlorides. Polyaluminium chloride is also called Aluminium chloride Hydroxide [1327-11-9].

### **Cost Estimation**

Plant Capacity	1.50 MT./Day
Land & Building (1000 sq.mt.)	US\$ 1.78 Lacs
Plant & Machinery	US\$ 1.40 Lacs
W.C. for 2 Months	US\$ 1.13 Lacs
Total Capital Investment	US\$ 4.56 Lacs
Rate of Return	25%
Break Even Point	61%

## **BOTTLING PLANT (COUNTRY LIQUOR) [EIRI-1233]**

There are nevertheless several very early references which can be taken to indicate that a potable spirit (like country liquor) was known many thousands of years ago. The earliest regarding excessive consumption of potable distilled spirit, i.e. country liquor and other products, appear to have come from China, some 1000 years B.C. Aristotle later mentions purifying sea water by evaporation, and also "wine which produces a spirit". For centuries the art of distilling remained firmly in the hands of alchemists. Herbs had long been thought to cure various maladies, agriurduly for Jaundice, fox glore, for blisters and it would seem that the alchemists argued that, if the juice of one of these herbs could be, say, quadrupled in strength, then the efficiency of cure would be multiplied four fold. The alchemists were responsible for many improvements in the art of distilling.

### **Cost Estimation**

Plant Capacity	10000 Ltrs./Day
Land & Building (1.52 Acres)	Rs. 2.11 Cr.
Plant & Machinery	Rs. 1.20 Cr.
W.C. for 1 Months	Rs. 1.31 Cr.
Total Capital Investment	Rs. 4.89 Cr.
Rate of Return	52%
Break Even Point	38%

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- ☛ **PROCESS OF MANUFACTURE** : Inventory Controls & Tests, Comparative Study of Process for Manufacturing the Product, Formulations, Process Flow Sheet Diagram, Process Detail in Stages from Raw Materials to Finished Products
- ☛ **RAW MATERIALS** : Raw Material Specifications, Market Codes & Raw Material Prices, Sources of Procurement of Raw Materials [Imported/Indigenous]
- ☛ **PLANT & MACHINERY** : Range of Machineries Required, Detailed Specifications of Machines & Equipmants, Prices od Machineries, Suppliers of Plant and Machineries.
- ☛ **LAND & BUILDING** : Total Land Area Requirement with Rates, Covered Area Break-up with Estimated Costs of Construction
- ☛ **PROJECT ECONOMICS** : Land & buildings, Plant, Machinery & Other Fixed Assets, Total Capital Investment, Working Capital Assessment, Raw Material & Consumable Stores, Staff Salaries & Wages, Utilities & Overheads, Total Cost of Project, Sources of Finance/Refinance, Break Even Point Determination.

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- \* MINERAL TURPENTINE OIL (M.T.O.) FROM PETROLEM (SUPERIOR KEROSENE OIL OR OTHER MATERIAL)
- \* M.S.FASTENERS AND S.S. FASTENERS
- \* P.V.C. COMPOUNDING (FRESH) FOR CABLES AND PVC PIPES
- \* BANANA FIBRE EXTRACTION AND HAND MADE PAPER BANANA & ITS BY PRODUCTS
- \* COLOUR AND ADDITIVES MASTERBATCHES
- \* METALLIC STEARATE
- \* SURGICAL METHYLATED SPIRIT
- \* KHADSARI SUGAR (500 TCD)
- \* COTTON (RUI) FROM WASTE

- COTTON CLOTH
- \* LAUNDRY & DRY CLEANERS
- \* COATED YARN
- \* TOUGHENED GLASS
- \* CAUSTIC SODA (SODIUM HYDROXIDE) (NaOH) ELECTROLYTIC PROCESS
- \* PLASTIC WASTE RECYCLING UNIT & PYROLYSIS PLANT FROM PLASTIC AND RUBBER WASTE (INTEGRATED UNIT)
- \* CHITIN & CHITOSAN FROM PRAWN SHELL WASTE
- \* PASTA PRODUCTION PLANT (SHORT PASTA)
- \* SODIUM HYDRO SULFITE THROUGH FORMALDEHYDE ROUTE CAP-20 TPD
- \* SODA ASH PLANT FROM SOLVAY PROCESS
- \* ONION, AND GARLIC POWDER WITH GRAPE DEHYDRATION (RAISINS)
- \* FLUSH DOORS
- \* DI-METHYL PHTHALATES (DMP)
- \* GLUTEN FREE BEER

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- \* PVC AND PP FILES AND FOLDERS
- \* SULFAMIC ACID PURE CRYSTAL AND OTHER GRADE (GP,SR & TM GRADE)
- \* DECORATIVE LAMINATED SHEET (SUNMICA)
- \* ALPHA CELLULOSE POWDER FROM COTTON WASTE
- \* CAST POLY PROPYLENE FILMS ( CPP FILM)
- \* CASHEW NUT PROCESSING
- \* BIOGAS PRODUCTION (1500 CUBIC METER PER DAY)
- \* SOYA MILK AND PANEER
- \* MINERAL TURPENTINE OIL (MTO)

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<ul style="list-style-type: none"> <li>* STEEL FABRICATION</li> <li>* STEEL ROLLING MILL (REINFORCEMENT BAR)</li> <li>* ACRYLIC BATH TUB BY ACRYLIC SHEET</li> <li>* FABRICATION OF HEAT EXCHANGER</li> <li>* KITCHEN PRODUCTS MADE OF STAINLESS STEEL</li> <li>* ALUMINIUM BEVERAGE CAN</li> <li>* STEEL ROLLING MILL (BY INDUCTION FURNACE FROM STEEL SCRAP &amp; SPONG IRON</li> <li>* M.S. BILLET CASTING WITH INDUCTION FURNACE FROM STEEL SCRAP &amp; SPONGE IRON</li> <li>* PROCESSING OF LOW GRADE TUNGSTEN ORE FULL BODY &amp; CHASSISS BUS PLANT</li> <li>* ASSEMBLY OF AIR – CONDITIONER/CHEST FREEZER/REFRIGERATOR</li> <li>* G.I.LADDER &amp; PERFORATED TRAYS</li> <li>* ALUMINIUM DOORS &amp; WINDOWS (ALUMINIUM FABRICATION)</li> <li>* LEAF SPRINGS FOR TRACTOR DRAWN TROLLEYS &amp; FOUR WHEELER TEMPOS</li> <li>* STEEL BRIGHT BARS</li> <li>* AUTOMOTIVE ENGINE VALVE</li> <li>* AUTOMOTIVE BRAKING SYSTEM</li> <li>* DISPLAY COOLER</li> <li>* ERW STEEL PIPES &amp; TUBES</li> <li>* STEEL INGOTS</li> <li>* TMT STEEL BARS (SARIYA)</li> <li>* AUTOMOBILE TRACTORS</li> <li>* ACTIVATED ALUMINA BALLS</li> <li>* ALUMINIUM FOIL</li> <li>* STONWARE PIPE (S.W.PIPE)/ CLAY PIPE</li> <li>* IRON ORE PELLETTIZATION</li> <li>* ELECTRIC CONTROL PANEL</li> <li>* SOLAR PV POWER PLANT</li> <li>* MACHINE SHOP (FOR OIL AND GAS ENGINEERING INDUSTRY, AEROSCAPE ENGINEERING INDUSTRY)</li> <li>* STEEL BRIGHT BARS</li> <li>* CEILING FAN</li> <li>* COPPER STRIP COILS FROM SCRAPS</li> <li>* PRODUCTION OF PV PANELS (SOLAR PV PANELS)</li> <li>* ROTARY AIR LOCKS, SCREW CONVEYOR, MOTORIZED/ PNEUMATIC DAMPER, FLAP VALVES, AIR SLIDES REQUIRED IN CEMENT PLANTS AND THERMAL POWER PLANT</li> <li>* ALUMINIUM EXTRUSION</li> </ul>	<ul style="list-style-type: none"> <li>* ALUMINIUM COIL COATING FOR ACP AND ROOFING IND.</li> <li>* PAVING BLOCK</li> <li>* WIRE NAILS</li> <li>* TMT STEEL BARS</li> <li>* FASTENERS/NUT &amp; BOLTS (INDUSTRIAL &amp; AUTOMOBILE)</li> <li>* HYDRAULIC CYLINDERS</li> <li>* DISPOSABLE SYRINGES WITH NEEDLE PLANT</li> <li>* FABRICATION UNIT (PRESSURE VESSEL, REACTOR VESSEL &amp; AGITATORS, HEAT EXCHANGERS) &amp; SEAMLESS PIPES AND TUBES</li> <li>* COPPER POWDER FROM COPPER SCRAP</li> <li>* STONE CRUSHER</li> <li>* PRODUCTION OF ALL TYPES OF FANS SUCH AS AXIAL FANS,CENTRIFUGAL FANS (SMOKE EXTRACT FANS &amp; FRESH AIR SUPPLY FANS), BATHROOM FANSETC.</li> <li>* STONE MINING</li> <li>* MAHINDRA CAR DEALERSHIP WITH AUTOMOBILE SERVICE STATION/GARAGE</li> <li>* AUTO FILTERS (AIR FILTERS, OIL FILTERS &amp; FUEL FILTERS)</li> <li>* AAC &amp; ACSR ALUMINIUM CONDUCTORS</li> <li>* MANGANESE ORE JIGGING</li> <li>* STEEL TRANSMISSION LINE TOWERS AND ROLLING MILL TO PRODUCE STEEL SECTIONS</li> <li>* FERRO SILICON (FROM MINERAL INGREDIENTS) STAINLESS STEEL TUBES</li> <li>* M.S.FASTENERS AND S.S. FASTENERS</li> <li>* PREFABRICATED STEEL FRAMED BUILDING MANUFACTURING PLANT</li> <li>* LEAD ACID BATTERY</li> <li>* GALVANISED WIRE</li> <li>* POWER TRANSFORMER (50 KVA TO 2000 KVA)</li> <li>* M.S. PIPE</li> <li>* GALVANISED IRON SHEETS</li> <li>* M.S.BILLETS</li> <li>* STEEL GRATING (GALVANISING ELECTRO FORGED STEEL GRATING)</li> <li>* ALLOY WHEELS PLANT</li> <li>* ESTABLISHMENT OF MANUFACTURING OF REFRIGERATING APPLIANCE</li> <li>* WELDED WIRE MESH</li> <li>* ALUMINIUM COLD ROLLING MILL FOR SHEETS &amp; CIRCLES</li> <li>* ALUMINIUM ROLLING MILL FOR MANUFACTURING ALUMINIUM CIRCLES</li> </ul>	<ul style="list-style-type: none"> <li>REQUIRED FOR PRESSURE COOKERS, NON STICK COOKWARES &amp; CIRCLES</li> <li>* LPG CYLINDER</li> <li>* ALUMINIUM COMPOSITE PANNELS</li> <li>* DEEP FREEZER</li> <li>* ENVIRONMENTAL CLEARANCE FOR EXPANSION OF INGOTS/ BILLETS PLANT</li> <li>* FERRO SILICON BY SMELTING PROCESS</li> <li>* ALUMINIUM CONDUCTOR</li> <li>* PRESTRESSED CONCRETE POLES</li> <li>* FASTENERS (NUT &amp; BOLT) USED IN OIL AND GAS</li> <li>* ALUMINIUM ALLOY PLANT</li> <li>* STAINLESS STEEL SINKS</li> <li>* ALUMINIUM ALLOY PLANT</li> <li>* P.V.C BATTERYSEPARATOR</li> <li>* AUTOMOTIVE TYRE AND TUBE VALVES (VALVES MANUFACTURING)</li> <li>* PRESSURE COOKWARE ALUMINIUM, STAINLESS STEEL &amp; HARD ANODIZED</li> <li>* SOLAR WATER HEATER DOMESTIC &amp; INDUSTRIAL</li> <li>* CORRUGATED COLOURED ROOFING GALVANISED IRON SHEET</li> <li>* PRESSURE DIE CASTING</li> <li>* G.I.WIRE AND BARBED WIRE</li> <li>* G.I.WIRE &amp; M.S. BINDING WIRE</li> <li>* HOT DIP GALVANIZING PLANT FOR STRUCTURAL STEEL AND PIPES</li> <li>* COLD ROLLING MILL</li> <li>* DOOR HINGES (MILD STEEL AND STAINLESS STEEL)</li> <li>* PRESSURIZED AEROSOLS (LIKE BODY SPRAYS, PERFUMES, SHAVING FOAM AND SHAVING LOTIONS ETC.)</li> <li>* ANHYDROUS SODIUM DITHIONITE PRODUCTION (SODIUM FORMATE PROCESS)</li> <li>* SODA ASH PLANT (FROM SOLUTION BRINE)</li> <li>* SISAL FIBRE REINFORCED</li> <li>* CEMENT ROOFING SHEET</li> <li>* HIGH ALUMINA REFRACTORY BRICK PLANT</li> <li>* CATHETERS MANUFACTURING</li> <li>* SURGICAL RUBBER DISPOSABLE GOODS</li> </ul>	<ul style="list-style-type: none"> <li>* POULTRY AND HATHERY FARMING</li> <li>* MILK PROCESSING PLANT</li> <li>* ROASTED, SALTED ALMONDS, PEANUTS FOR PACKING IN 25g, 50g,250g &amp; 500g SACHET-S</li> <li>* BEER FROM POTATOES</li> <li>* GUAR GUM POWDER</li> <li>* AUTOMATIC WHITE BREAD MAKING PLANT</li> <li>* AUTOMATIC BISCUIT MAKING PLANT</li> <li>* FROZEN FOOD BY IOF TECHNOLOGY</li> <li>* WALNUT PROCESSING PLANT</li> <li>* WHIPPING CREAM FRUITS &amp; VEGETABLES POWDER UNIT (EXPORTS ORIENTED UNIT)</li> <li>* NATURAL MEDICINE &amp; RESEARCH INSTITUTE WITH 150 BEDS HOSPITAL</li> <li>* PACKAGED DRINKING WATER (PACKED IN 330 ml CUP, 500ML BOTTLE, 1500 ML BOTTLE AND 20 LTR. JAR)</li> <li>* COLD STORAGE (CONTROLLED ATMOSPHERE OR CA) FOR POTATO CAP: 1,00,000 BAGS (50 Kg/Bag), STORING CAP: 5000 Mt, SOLVENT EXTRACTION &amp; REFINING (SOYABEAN) (Cap- 250mt/day &amp; 50mt/Day oil Refining)</li> <li>* BOTTLING PLANT (WHISKY, BRANDY, RUM, VODKS, GIN) FROM RECTIFIED SPIRIT/ENA LUBE OIL BLENDING AND GREASES PLANT</li> <li>* COLD STORAGE FOR POTATO 1,00,000 BAGS (50 KG/BAG)</li> <li>* MAIZE FLOUR &amp; BY PRODUCT MANUFACTURING PLANT</li> <li>* CUT FLOWER (GLADIOLI, MARGIGOLD, STATICE, CHRYSANTHEMUM ROSE WITH GREEN HOUSE)</li> <li>* CATTLE FARMING AND DAIRY PRODUCTS</li> <li>* COLD STORAGE FOR POTATO AND OTHER HORTICULTURE PRODUCTS Cap:- 5000 Mt or 100000 Bags (50 Kg/Bag)</li> <li>* DEXTROSE PLANT</li> <li>* SBR RUBBER SHEETS AND SHOE MANUFACTURING</li> <li>* CASHEW NUT PROCESSING</li> <li>* PLYWOOD AND PLYBOARD PARTICLE BOARD AND LAMINATED PARTICLE BOARD</li> <li>* VENEER MAKING, PLYWOOD &amp; PLYBOARD MAKING</li> <li>* WALNUT &amp; PINUS(CHILGOZA) OIL, SHELL POWDER PROCESSING PLANT</li> <li>* COUNTRY LIQUOR BOTTLING PLANT (1,00,000 BOTTLES/ DAY)</li> </ul>
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<ul style="list-style-type: none"> <li>* PLASTIC GRANULES FROM PLASTIC WASTE</li> <li>* ROPE AND SUTLI MAKING PLANT</li> <li>* BOTTLING PLANT (COUNTRY LIQUOR) 10,000 LTRS./DAY)</li> <li>* I.V. FLUID (FFS OR BFS TECHNOLOGY)</li> <li>* TOXIN PAN MASALA, TOBACCO LESS GUTKHA AND ZARDA</li> <li>* RUBBER &amp; FLAT TRANSMISSION BELT CONVEYOR BELT</li> <li>* UPVC DOORS &amp; WINDOWS FABRICATING PLANT (Fixing and Installation of Door and Windows of uPVC profiles)</li> <li>* RUBBER &amp; FLAT TRANSMISSION BELT CONVEYOR BELT</li> <li>* MUSTARD OIL PROCESSING PLANT (EXPPELLER PROCESS)</li> <li>* MEDICAL COLLEGE WITH 750 BEDS HOSPITAL FACILITY</li> <li>* MICRO IRRIGATION PRODUCT MANUFACTURING PLANT</li> <li>* HOT DIP GALVANIZING MUSTARD OIL PROCESSING PLANT (EXPPELLER PROCESS)</li> <li>* CEMENT TILES, CANAL LINE SLAB, KERVY STONE, PAYER RCC PIPE, MANOHOLE COVER,ENTERLOCKING ETC. MANUFACTURING PLANT</li> <li>* MEDICAL COLLEGE (100 STUDENT INTAKE CAP. MEDICAL COLLEGE WITH 500 BED HOSPITAL)</li> <li>* ESTABLISHMENT OF A PRIVATE UNIVERSITY</li> <li>* DIGITAL INKS</li> <li>* GALVANIZING PROCESS PLANT FOR ELECTRICAL POLES</li> <li>* MAIZE PROCESSING PLANT</li> <li>* STARCHES / MODIFIED STARCHES/ LIQUID GLUCOSE / DEXTROSE MONOHYDRATE /GLUCOSE SYRUPS / CORN SYRUP SOLIDS / HIGH MALTOSE CORN SYRUPS / MALTO DEXTRINE POWDER / CORN GLUTEN MEAL (60%) MAIZE OIL / SORBITOL.</li> <li>* BABY CARE PRODUCTS</li> <li>* FAT LIQUOR (CHLORINATED PARAFFIN WAX)</li> <li>* BOTTLING OF WHISKY</li> <li>* UPVC DOORS &amp; WINDOWS PROFILES</li> <li>* EPDM RUBBER PROFILES</li> <li>* FAT LIQUOR (CHLORINATED PARAFFIN WAX)</li> <li>* FAST FOOD RESTAURANT WITH CENTRALISED KITCHEN</li> </ul>	<ul style="list-style-type: none"> <li>* READY MADE GARMENT (T-SHIRT/POLO GOLFER/ WOVEN SHIRTING &amp; SUITING FOR UNIFORMS/SWEATERS) MANUFACTURING</li> <li>* BIO-DIESEL EXTRACTION FROM JATROPHA, SOYABEAN, SUNFLOWER, RICE BRAN, ALGE &amp; CULTIVATION OF JATROPHA</li> <li>* FAST FOOD RESTAURANT CHAIN WITH CENTRALISED KITCHEN</li> <li>* GUAR SPLIT POWDER AND OTHER BY PRODUCTS</li> <li>* SOLVENT EXTRACTION PLANT (COTTON SEED)</li> <li>* RASGULLA MANUFACTURING AND CANNING</li> <li>* CULTIVATION OF RICE &amp; WHEAT COMMERCIAL &amp; MECHANISED DEVELOPMNT</li> <li>* MAIZE &amp; BY PRODUCTS PROCESSING -STARCH MODIFIED STARCHES/LIQUID GLUCOSE/DEXTROSE MONOHYDRATE/GLUCOSE SYRUPS/CORN SYRUP SOLIDS/HIGH MALTOSE CORN SYRPS/ MAITO DEXTRINE POWDER/CORN GLUTEN MEAL (60%) MAIZE OIL/SORBITOL</li> <li>* TEAK FARMING</li> <li>* ARTIFICIAL MARBLE (SYNTHETIC)</li> <li>* POTATO STARCH CARDANOL FROM C.N.S.L. (CASHEWNUT SHELL LIQVID</li> <li>* INTEGRATED SCRAP YARD</li> <li>* POTATO STARCH</li> <li>* MANGO PULP (5 TON/HOUR 200 KG ASEPTIC PACKAGING)</li> <li>* BOTTLING PLANT (WHISKY, BRANDY, RUM, VODKA, GIN) FROM RECTIFIED SPIRIT/ENA</li> <li>* COW DAIRY FARMING (AYRSHIRE/HOLSTEIN) AND MILK PROCESSING MILK/DAY CAP-50,000 LTR/DAY</li> <li>* WHEAT FLOUR MILL</li> <li>* CHAKKI FLOUR MILL</li> <li>* I.V. FLUID (FFSTECHNOLOGY)</li> <li>* LIQUID GLUCOSE FROM POTATOES</li> <li>* SORBITOL FROM MAIZE STARCH</li> <li>* WALNUT PROCESSINGPLANT</li> <li>* SOLVENT EXTRACTION AND OIL REFINERY CUM PACKING OF RICE BRAN OIL</li> <li>* COTTON SEED OIL SOLVENT EXTRACTION PLANT</li> <li>* MARINE TRAINING INSTITUTE &amp; PLACEMENT SERVICE PROVIDING AGENCY</li> <li>* I.V.FLUID (FFS TECHNOLOGY)</li> <li>* CERAMIC FIBERS, CERAMIC</li> </ul>	<ul style="list-style-type: none"> <li>FIBRE BLANKET, CERAMIC FIBRE BOARD AND CERAMIC FIBRE ROPE</li> <li>* COLD SUPPLY CHAIN</li> <li>* LAMI TUBE MANUFACTURING</li> <li>* EYE DROP 3 PIECES (PLASTIC VIALS)</li> <li>* PET BOTTLES (CAMBER/ CLEAR IN COLOUR) CAP: 15ML,60ML 100ML,135ML, 200ML &amp; 500ML</li> <li>* BENZYL ALKONIUM CHLORIDE (BKC)</li> <li>* NATURAL SUGAR WAX</li> <li>* MARGARINE BUTTERFROM VEGETABLE OIL</li> <li>* GREEN HOUSE FOR CROP PRODUCTION</li> <li>* ORGANIC DAIRY FARMING</li> <li>* E-WASTE</li> <li>* BIO-DIESEL FROM ALGAE</li> <li>* VANADIUM PENT OXIDE GRAPHITE MINING AND BENEFICIATION PLANT</li> <li>* VITAMIN WATER</li> <li>* PET PREFORM CUM PET BOTTLES</li> <li>* ORGANIC DAIRY FARMING AND PRODUCING WHOLE MILK POWDER (WMP)</li> <li>* HDPE BOTTLES</li> <li>* CAUSTIC SODA FROM SODIUM CHLORIDE</li> <li>* COAL TAR PITCH</li> <li>* MOSQUITO REPELLANT</li> <li>* WRIST BAND</li> <li>* CASTOR OIL AND ITS DERIVATIVES OLEO RESIN, TURKEY RED OIL, DCO, HCO, SEBACIC ACID, 12-HYDROXY STEARIC ACID</li> <li>* PAPAIN FROM PAPAYA</li> <li>* PROCESSED CHEESE</li> <li>* MONOCHLORO BENZENE</li> <li>* EUGENOL FROM CINNAMON OIL</li> <li>* SULPHUR 80% WDG</li> <li>* CERAMIC FIBERS, CERAMIC FIBRE BLANKET, CERAMIC FIBRE BOARD AND CERAMIC FIBRE ROPE</li> <li>* SCREEN PRINTING</li> <li>* DI CALCIUM PHOSPHATE FROM ROCK PHOSPHATE &amp; HAIFA PROCESS</li> <li>* PVC FLEXIBLE PIPE</li> <li>* FLEX BANNER USED IN DIGITAL PRINTING</li> <li>* PIGMENTS BINDERS FOR TEXTILE PRINTING</li> <li>* POULTRY &amp; HATCHERY FARM</li> <li>* ALOEVERA JUICE AND GEL</li> <li>* LIME PUTTY</li> <li>* AUTOMOBILE WORKSHOP/ GARAGE</li> <li>* EGG TRAY FROM PULP</li> <li>* CARDANOL FROM C.N.S.L.</li> <li>* OXYGEN GAS</li> </ul>	<ul style="list-style-type: none"> <li>* POLYALUMINIUM CHLORIDE</li> <li>* NAMKEEN INDUSTRY (BHUIJA, CHANACHUR ETC.)</li> <li>* POLYOL USED FOR POLYURETHANES</li> <li>* POLYSTYRENE POLY PROPYLENE OXIDE</li> <li>* DIETHYL PHTHALATE</li> <li>* UREA FORMALDEHYDE AND MELAMINE</li> <li>* FORMALDEHYDE MOULDING POWDER</li> <li>* INSTANT COFFEE</li> <li>* ANNATTO SEED COLOUR EXTRACTION</li> <li>* FRUITS AND VEGETABLES DRYING BY (FREEZE DRYING METHOD)</li> <li>* BIO GAS PRODUCTION AND BOTTLING PLANT</li> <li>* JAM, JELLIES, FRUIT JUICE AND ALLIED PRODUCTS</li> <li>* MATERNITY NURSING HOME</li> <li>* CANNING &amp; PRESERVATION OF VEGETABLES</li> <li>* CURCUMIN &amp; TURMERIC OIL FROM TURMERIC</li> <li>* DETERGENT WASHING POWDER (ARIEL TYPE)</li> <li>* GRANITE SLAB AND TILES</li> <li>* TEA PACKAGING</li> <li>* PAN MASALA &amp; GUTKHA</li> <li>* PRESTRESSED CONCRETE ELECTRIC POLES</li> <li>* LEATHER SHOES</li> <li>* ROTOGRAVURE PRINTING (FOR FLEXIBLE PACKAGING)</li> <li>* AUTO FLEAVED AERATED CONCRETE BLOCKS</li> <li>* OXYGEN AND NITROGEN GAS PLANT</li> <li>* MANGANESE ORE BENEFICATION</li> <li>* MINERAL WOOL</li> <li>* CALCIUM SILICATE</li> <li>* TOUGHENED GLASS</li> <li>* HUMIC ACID</li> <li>* OFFSET PRINTING UNIT (5 COLOUR)</li> <li>* CASTOR OIL AND ITS DERIVATIVES OLEORESIN</li> <li>* TISSUE PAPER PULPING FROM SAW DUST</li> <li>* KNITTED GLOVES</li> <li>* RADIATOR COOLANT</li> <li>* LATEX FOAM RUBBER (SPONG RUBBER)</li> <li>* GARLIC OIL AND POWDER</li> <li>* ACTIVATED CARBON &amp; SODIUM SILICATE FROM PADDY/ RICE HUSK</li> <li>* TRIETHYLENE GLYCOL</li> <li>* RAMMING MASS</li> <li>* WOOD PEELING &amp; VENEER MAKING</li> <li>* PETROLEUM JELLY</li> <li>* DAIRY FARM (COW &amp; BUFFALO) TO PRODUCE</li> </ul>
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Market Survey Cum Detailed Techno Economic Feasibility Report on all Projects are available contact:

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<ul style="list-style-type: none"> <li>* MILK &amp; PACKAGING IN POUCHES</li> <li>* CUTTING OIL LIQUID GOLD (IN PASTE FORM)</li> <li>* P.V.C. LEATHER CLOTH (REXINE)</li> <li>* COAL TAR DISTILLATION</li> <li>* ALUMINIUM LABEL PRINTING</li> <li>* FOLDING CARTNS/MONO CARTONS</li> <li>* SURGICAL DISPOSABLE GLOVES (DIPPED RUBBER GOODS)</li> <li>* AGRICULTURAL CHEMICAL (PLANT GROWTH PROMOTER AND PLANT GROWTH REGULATOR)</li> <li>* MENTHOL BOLD CRYSTALS FROM MENTHOL FLAKES</li> <li>* ORGANIC FARMING</li> <li>* CORRUGATED POLYCARBONATE SHEET</li> <li>* COLD STORAGE</li> <li>* FLAT PVC LAMINATED</li> <li>* SAFTY GLASS/TOUGHENED GLASS</li> <li>* PLASTIC GRANULES FROM WASTE</li> <li>* DRY WALL PUTTY (WHITE CEMENT BASED)</li> <li>* CHARCOAL BRIQUETTE</li> <li>* OXALIC ACID FROM MOLASSES</li> <li>* POTATO GRANULES</li> <li>* SANITARY NAPKINS &amp; BABY DIAPERS</li> <li>* CORRUGATED BOXES</li> <li>* PLASTER OF PARIS</li> <li>* RUBBER ROLLER FOR PRINTING MACHINE</li> <li>* LACTIC ACID</li> <li>* EMERY PAPER (SAND PAPER)</li> <li>* RUBBER RECLAIM SHEET FROM USED BUTYL TYRE AND TUBE</li> <li>* MANGO PULP</li> <li>* PARTICLE BOARD FROM BAGASSE AND RICE HUSK</li> <li>* TOILET PAPER &amp; NAPKINS</li> <li>* TENDER COCONUT WATER</li> <li>* CALCIUM CARBONATE</li> <li>* LIME CALCINATION PLANT</li> <li>* INJECTION MOULDED PLASTIC COMPONENTS</li> <li>* HYDRATED LIME</li> <li>* BLACK PEPPER</li> <li>* MULTIAXIAL GLASS FABRIC</li> <li>* LIQUID TOILET CLEANER (HARPIC TYPE)</li> <li>* LIME &amp; PRECIPITATED</li> <li>* CALCIUM CARBONATE</li> <li>* LIQUID GLUCOSE FROM BROKEN RICE</li> </ul>	<ul style="list-style-type: none"> <li>* MEDICAL DISPOSABLE PLASTIC SYRINGES</li> <li>* METAL POLISHING BAR</li> <li>* SANITARY NAPKINS &amp; BABY DIAPERS</li> <li>* PERFUMES/ATTAR</li> <li>* GEMS AND JEWELLERY</li> <li>* MULTIAXIAL GLASS FABRIC</li> <li>* ACTIVE ZINC OXIDE</li> <li>* COPPER PHTHALOCYANINE</li> <li>* TURMERIC OIL EXTRACTION FROM DRY TURMERIC</li> <li>* CNSL BASED RESIN IN LIQUID &amp; POWDER FORM</li> <li>* BOPP FILM</li> <li>* BETA IONONE</li> <li>* BIO-FERTILIZER</li> <li>* ZINC &amp; COPPER SULPHATE</li> <li>* PAPER BASED PHENOLIC SHEET (FOR ELECTRICAL APPLIANCE)</li> <li>* THINNERS (WHITE SPIRIT BASED)</li> <li>* SINGLE SUPER PHOSPHATE &amp; SULPHURIC ACID</li> <li>* MONO CALCIUM PHOSPHATE &amp; DI-CALCIUM PHOSPHATE</li> <li>* FLEXIBLE P.U. FOAM</li> <li>* ASPIRIN</li> <li>* SORBITOL FROM MAIZE STARCH</li> <li>* SPICE OIL &amp; OLEORESIN</li> <li>* ANTI-FOAMING AGENT (SILICONE BASED) FOR DISTILLERY, SUGAR, PAPER PLANT ETC.</li> <li>* LAUNDRY &amp; DRY CLEANER</li> <li>* BRICKS FROM STONE DUST</li> <li>* CARBOXY METHYL STARCH</li> <li>* TITANIUM DIOXIDE</li> <li>* UNDECYENIC ACID</li> <li>* PSA BASED NITROGEN GENERATOR</li> <li>* SYNTHETIC IRON OXIDE</li> <li>* PVC INSULATION TAPE</li> <li>* TAMARIND KERNEL POWDER</li> <li>* ORGANIC CHEMICAL &amp; SOLVENTS</li> <li>* PLASTICIZERS</li> <li>* ICE PACK (SOLUTIONS TYPE, VIOLET-SEMI SOLID POLYMER TYPE)</li> <li>* GUM FROM TAMARIND</li> <li>* PEARL SUGAR CANDY (MISHRI)</li> <li>* GOAT &amp; SHEEP FARMING</li> <li>* GYPSUM PLASTIC BOARD (AUTOMATIC PLANT)</li> <li>* NON-WOVEN INDUSTRY (CARRY BAGS, SURGICAL GOWN, FACE MASK, ROUND CAPS, SHOE COVER, GLOVE)</li> <li>* COTTON SPINNING, SIZING,</li> </ul>	<ul style="list-style-type: none"> <li>* YARN, DYEING &amp; WEAVING</li> <li>* CALCIUM CHLORIDE</li> <li>* AMINES &amp; ALLIED PRODUCT</li> <li>* SPINNING COTTON</li> <li>* SILICONE FROM RICE HUSK</li> <li>* ADHESIVE (FEVICOL TYPE)</li> <li>* CAUSTIC SODA FROM ELECTROLYSIS</li> <li>* CAMPHOR TABLETS</li> <li>* CERAMIC GLAZED WALL AND FLOOR TILES</li> <li>* ZINC SULPHATE MONO</li> <li>* ETHANOL (BIO FUEL) FROM RICE STRAW</li> <li>* GYPSUM MOULDING AND GYPSUM BOARD</li> <li>* SMOKELESS COAL</li> <li>* ACID (SILICA) AND BASIC RAMMING MASS</li> <li>* UNSATURATED POLYESTER RESINS</li> <li>* DAIRY (BUFFALO) FARMING</li> <li>* SILICONE FROM RICE HUSK</li> <li>* N-ACETYL THIOZOLIDINE-4-CARBOXYLIC ACID (NATCA)</li> <li>* PE BASED CARBON BLACK COMPOUND</li> <li>* ONION DEHYDRATION</li> <li>* PVC PIPES &amp; FITTING</li> <li>* GLASS REINFORCED</li> <li>* GYPSUM MOULDINGS</li> <li>* ABSORBENT COTTON &amp; SURGICAL BANDAGES</li> <li>* CALCIUM STEARATE BY FUSION PROCESS</li> <li>* MANGO POWDER &amp; OTHER FREEZE DRIED PRODUCTS</li> <li>* MENTHOL OIL FROM LEAVES AND MENTHOL</li> <li>* CRYSTALS (PEPPERMINT) MANUFACTURE OF CELLULOSE ACETATE</li> <li>* ANTIFOAMING / DEFOAMING AGENT</li> <li>* ALOEVERA CULTIVATION &amp; PROCESSING</li> <li>* SYNTHETIC MAGNESIUM SILICATES</li> <li>* EPHEDRINE</li> <li>* HYDROCHLORIDE</li> <li>* ACTIVATED BLEACHNG EARTH</li> <li>* TECHNICAL TEXTILES</li> <li>* FORMALIN FROM METHANOL</li> <li>* CATIONIC SOFTNER (STEARIC ACID BASED)</li> <li>* PRECIPITATED SILICA</li> <li>* PU BASED FOOT WEARS</li> <li>* FORMALDEHYDE RESIN (UREA, PHENOL, MELAMINE)</li> <li>* HDPE MONO FILAMEN NET</li> <li>* POTATO &amp; ONION FLAKES</li> </ul>	<ul style="list-style-type: none"> <li>* DUSTLESS CHALK (SCHOOL CHALK)</li> <li>* TOMATO POWDER</li> <li>* BIODEGRADABLE / COMPOSTABLE PLASTICS</li> <li>* ACRYLIC CO POLYMER EMULSION</li> <li>* ESTER GUM (FOOD GRADE)</li> <li>* PROTEIN BASED FOAMING AGENT</li> <li>* LECITHIN (SOYA BASED)</li> <li>* SOYA OIL AND CATTLE FEED FROM SOYA BEAN</li> <li>* COMPARISON BETWEEN FLY ASH AND CELLULAR LIGHTWEIGHT CONCRETE (CLO) BRICKS</li> <li>* CELL CAST ACRYLIC SHEET</li> <li>* ACRYLIC BATH TUB AND SHOWER TRAY</li> <li>* THERMOCOLE BASED DISPOSABLE PLATES</li> <li>* SODIUM SILICATE FROM RICE HUSK</li> <li>* ETHYL METHACRYLATE</li> <li>* SODIUM LAURYL ETHER SULPHATE</li> <li>* LATEX GLOVES, CONDOMS &amp; CATHETER</li> <li>* CALCIUM NITRATE</li> <li>* GRAIN BASED ALCOHOL DISTILLERY</li> <li>* BULK DRUGS</li> <li>* MARBLE QUARRYING</li> <li>* CULTIVATION OF CAPSICUM IN GREEN HOUSE</li> <li>* SULPHUR 90% WDG</li> <li>* EGG POWDER</li> <li>* WOOD PLASTIC</li> <li>* COMPOSITE BOARD LINE</li> <li>* SODIUM LAURYL SULPHATE AND SODIUM LAURYL ETHER SULPHATE</li> <li>* FISH PROCESSING</li> <li>* BABY CEREAL FOOD &amp; MILK POWDERS (BABY FOOD)</li> <li>* GUR (JAGGERY)</li> <li>* DAIRY PRODUCTS</li> <li>* CHLORINATED PARAFFIN WAX (CPW)</li> <li>* HAND WASHING DETERGENT POWDER USING THE DRY MIX PROCESS INCLUDING FORMULA OF DIFFERENT TYPES QUALITIES (LOW/ MEDIUM/HIGH COST)</li> <li>* HANDWASHING DETERGENT POWDER USING THE DRY MIX PROCESS INCLUDING</li> </ul>
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<p>FORMULA OF DIFFERENT TYPES QUALITIES (LOW/MEDIUM/HIGH COST)</p> <ul style="list-style-type: none"> <li>* DIGITAL PHOTOPAPER/ INKJET PHOTOPAPER</li> <li>* KAOLIN FOR ROAD MAKING</li> <li>* PEPPERMINT CULTIVATION &amp; PROCESSING</li> <li>* PEPPERMINT CULTIVATION &amp; PROCESSING</li> <li>* HDPE PIPE</li> <li>* ACTIVATED CARBON FROM RICE HUSK</li> <li>* HT &amp; LT INSULATOR, HT AIR BRAKE SWITCH D.O. FUSE, LIGHTENING ARRESTOR</li> <li>* PET BOTTLES IN CAP: 500ML, 1 LTR, 2 LTRS, 5 LTRS, USED FOR PACKAGED DRINKING WATER, EDIBLE OILS</li> <li>* ALCOHOLIC BEVERAGES (COUNTRY LIQUOR &amp; IMFL)</li> <li>* QUARTZ BASED INDUSTRIES (QUARTZ POWDER SILICA SAND SILICA RAMMING MASS FUSED SILICA)</li> <li>* BEEDI (BIDI) BY MACHINE</li> <li>* RICE SHELLER</li> <li>* FRUIT RIPENING CHAMBER</li> <li>* MINERAL WATER AND PET BOTTLING PLANT</li> <li>* DIAGNOSTIC LAB AND</li> <li>* ONLINE TRADING BUSINESS</li> <li>* CEREAL MILLING</li> <li>* MINI OIL PLANT SUITABLE FOR GROUNDNUT OIL AND COTTON SEED OIL</li> <li>* CHANACHUR, BHUJIA, GANTHIA (AUTOMATIC PLANT)</li> <li>* KHADYA SURAKSHA (FOOD SECURITY)</li> <li>* PLASTIC WATER STORAGE TANKS</li> <li>* ZINC SULPHATE, MONOHYDRATE &amp; HEPTA HYDRATE</li> <li>* CIGARETTE MANUFACTURING UNIT</li> <li>* CATTLE FEED PELLETS PLANT FOR COW &amp; BUFFALO FOR BOOSTING MILK AND GROWTH</li> <li>* TYRE RECYCLING UNIT</li> <li>* PAPAIN EXTRACTION INDUSTRY</li> <li>* CAKE SHOP</li> <li>* BUSINESS PROCESS</li> </ul>	<p>OUTSOURCE (B.P.O.)</p> <ul style="list-style-type: none"> <li>* EMPTY HARD GELATINE CAPSULES</li> <li>* BIOFERTILIZER</li> <li>* PLASTIC MOULDING UNIT (CHAIR, TABLES &amp; VEGETABLE TRAYS)</li> <li>* GOLD POTASSIUM CYANIDE (G.P.C.)</li> <li>* HDPE, PVC &amp; CPVC PIPES AND FITTINGS</li> <li>* NO CARB PASTE (ANTICARBURIZING PASTE-WATER SOLUBLE) FOR HEAT TREATMENT</li> <li>* CONVERSION WASTE PLASTIC WITH TYRE INTO ACTIVATED CARBON AND INDUSTRIAL FUEL</li> <li>* PYROLYSIS PLANT FROM PLASTIC &amp; RUBBER</li> <li>* COMPARISON BETWEEN FLY ASH AND CELLULAR LIGHTWEIGHT CONCRETE (CLC) BRICKS</li> <li>* AGAR AGAR</li> <li>* NAIL POLISH</li> <li>* PLASTIC GRANULES FROM WASTE</li> <li>* AGARBATTI SYNTHETIC PERFUMERY COMPOUNDS &amp; AGARBATTI COMPOUNDS LIKE (CHAMPA, MOGRA, SANDAL WOOD &amp; LOBAN)</li> <li>* PET PREFORM AND PET JARS (20 LTRS CAPACITY)</li> <li>* KRAFT PAPER FROM 100% WASTE PAPER</li> <li>* PRIVATE UNIVERSITY</li> <li>* LIQUID GLUCOSE AND MALTODEXTRIN FROM BROKEN RICE</li> <li>* DRY WALL PUTTY (WHITE CEMENT BASED)</li> <li>* CONSTRUCTION CHEMICALS OT PASTE</li> <li>* FUSED SILICA FROM SILICA SAND</li> <li>* BANANA CHIPS, BANANA PULP &amp; BANANA POWDER (BANANA PRODUCTS)</li> <li>* CONFECTIONERY UNIT (TOFFEE, CANDY /LOLLIPOP CHEWING GUM, BUBBLE GUM CHOCOLATE)</li> <li>* FORMALDEHYDE RESIN (UREA, PHENOL, MELAMINE &amp; THEIR MODIFIED RESINS)</li> </ul>	<ul style="list-style-type: none"> <li>* EPDM RUBBER PROFILES (WEATHER STRIPS, INDUSTRIAL MONOSTRIPS ETC)</li> <li>* GRANITE CUTTING AND POLISHING UNIT (100% EOU)</li> <li>* SURGICAL COTTON, ROLLER BANDAGE, CREPE BANDAGE &amp; PLASTER CART (READY MADE) E.G. GYPSONA 3M CART</li> <li>* ENTERTAINMENT CLUB, HOLIDAY RESORT, 4 STAR HOTEL, AMUSEMENT PARK CUM WATER PARK, MUSHROOM &amp; ITS PRODUCTS, FISH FARMING, LAKE FOR BOATING, DEER PARK ETC.</li> <li>* HDPE, PVC, LLDPE PIPES/ TUBES AND FITTING</li> <li>* EPOXIDIZED SOYABEAN OIL (SECONDARY PLASTICIZER) USED IN PVC COMPOUND</li> <li>* POULTRY PROCESSING PLANT</li> <li>* B.O.P.P. SELF ADHESIVE TAPES</li> <li>* I.V.SET</li> <li>* MANGANESE OXIDE AND MANGANESE SULPHATE</li> <li>* ODOURLESS NYLON GRANULES FROM FIBER OF WASTE TYRE WITHOUT CHANGING PROPERTIES OF NYLON</li> <li>* PARTICLE BOARD FROM RICE HUSK OR WOOD WASTE OR SUGAR CANE BAGASSE OR MIXED OF ALL ABOVE</li> <li>* POULTRY LAYER AND BROILER FARMING</li> <li>* TOMATO, GUAVA AND MANGO PULP</li> <li>* GREEN HOUSE</li> <li>* HYDROXY PROPYL GUAR (HPG) AND CARBOXY METHYL HYDROXY PROPYL GUAR</li> <li>* BATHSOAP MANUFACTURE</li> <li>* PLASTIC MOULDED CHAIRS</li> <li>* FROZEN POTATO PATTY</li> <li>* CALCIUM ALUMINATE</li> <li>* ACTIVATED CARBON FROM COCONUT SHELL</li> <li>* RIGID PVC FILM MANUFACTURE FOR PHARMACEUTICALS BLISTER</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>* NYLONE 66 CURING TAPE USED IN RUBBER HOSE PIPE WRAPPING</li> <li>* ANTIFOAMING/DEFOAMING AGENT LIKE ANTAROL T-709</li> <li>* SOY AND GLUTEN BASED MOCK MEAT</li> <li>* KRAFT PAPER USING WASTE PAPER AND OLD CORRUGATED CARTONS</li> <li>* GLASS BOTTLE FOR BEER AND BEER MUG (TUMBLER)</li> <li>* DISPOSABLE SYRINGES AND NEEDLE PLANT (Single Use Syringes, Single Use Needles &amp; As Syringes)</li> <li>* DIRECT FILLED BALL PEN (USE AND THROW)</li> <li>* BENZALKONIUM CHLORIDE</li> <li>* SPINNING COTTON (COTTON SPINNING PLANT)</li> <li>* CALCIUM CHLORIDE USING LIME STONE AND HYDROCHLORIC ACID</li> <li>* RUBBER POWDER FROM WASTE TYRES</li> <li>* CALCINATION PLANT FOR PYROPHYLLITE AND DIASPORE MINERALS BY VERTICAL SHAFT KILN PROCESS</li> <li>* ONION, GARLIC &amp; GINGER DEHYDRATION PLANT</li> <li>* POTASSIUM NITRATE</li> <li>* POTASSIUM SULPHATE</li> <li>* N.P.K. FERTILIZER</li> <li>* CHICORY EXTRACT (ROASTED CHICORY GRANULES/CUBES, LIQUID EXTRACT ETC.)</li> <li>* SOLID WASTE SEGREGATION</li> <li>* LAMITUBE MANUFACTURE</li> <li>* BOARDING SCHOOL</li> <li>* CERAMIC FUSE TUBE/ BARRELS USED IN HRC FUSE</li> <li>* SODIUM POLYACRYLATE DISPERSANT FOR USE IN WATER BASED PAINT WITH DISPERSANT FOR PIGMENT</li> <li>* NAIL POLISH, LIPSTICKS, NAIL POLISH REMOVER</li> <li>* SOYA PRODUCTS (MILK, PANEER, TOFU, BUTTER, CHEESE CURD/YOGURT, ICE CREAM) WITH PACKAGING UNIT</li> <li>* GREASE MANUFACTURING</li> </ul>
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