

JUST PREPARED NEW PROJECTS FOR YOU

INDUSTRIAL FRAGRANCE AND FLAVOUR USED IN DETERGENTS COSMETICS, JUICES, ICE CREAM (CODE NO. 1821)

Perfume is a mixture of fragrant essential oils and aroma compounds, fixatives, and solvents used to give the human body, objects, and living spaces a pleasant smell. Perfume comes from the Latin "per" meaning "through" and "fumum," or "smoke." Many ancient perfumes were made by extracting natural oils from plants through pressing and steaming. The oil was then burned to scent the air. Today, most perfume is used to scent bar soaps. Some products are even perfumed with industrial odorants to mask unpleasant smells or to appear "unscented." Aroma Vocabulary Accord: An accord is the perfumery equivalent to a chord in music. It's a blend of 2 or more smells that produce a third and distinctive smell. An accord may be a simple mixture or consist of many components and applies when each component material is in balance and harmony with each other material so that no single component can be detected. Aroma Chemical: Any chemical compound created and used for its aromatic properties. Aroma chemicals could be isolates of essential oils, the chemical modification of those isolates, or synthetic compounds from petrochemicals Body: The main fragrance theme – the middle note or "heart" of a perfume, it is also used to describe a fragrance that is well-rounded or full. Balanced: This is when a fragrance has been so carefully blended that no single aromatic body or effect is readily identifiable.

COST ESTIMATION

Plant Capacity	300.00 KGS/day
Land & Building (1000 Sq.Mtr)	Rs 1.65 Cr
Plant & Machinery	Rs 22.00 Lacs
W.C. for 3 Months	Rs 81.00 Lacs
Total Capital Investment	Rs 2.73 Cr
Rate of Return	53%
Break Even Point	37%

CHANACHUR, BHUJIA, GANTHIA (AUTOMATIC PLANT – 10 TPD) [CODE NO.1822]

The best of 'chanachur' around Kolkata Shankar Lal Snacks Ezra Street The shop has a name — Shankar Lal Snacks. But nobody on the Ezra Street area would recognize it by that name. To the customers, it's their favourite Gujarati shop that sells mouth-watering mixture. A tasty concoction of eight ingredients including chura, badam, papri et al, the shop is run by brothers, Ramji and Lakshman Singh. The duo insists that this mixture won't taste good without the papaya chutni they serve with it. "We open the shop at 6 am as many people like to have papri for breakfast. But after that, it's our mixture that sells most." No wonder this tangy-flavoured snack has been a hot seller for the last 90 years.

COST ESTIMATION

Plant Capacity	10.00 Ton/day
Land & Building (3000 Sq.Mtr)	Rs 4.02 Cr

Plant & Machinery	Rs 1.18 Cr
W.C. for 2 Months	Rs 5.18 Cr
Total Capital Investment	Rs 10.70 Cr
Rate of Return	90%
Break Even Point	26%

CENTRIFUGAL CASTING [CODE NO. 1823]

Centrifugal casting or rotocasting is a casting technique that is typically used to cast thin-walled cylinders. It is noted for the high quality of the results attainable, particularly for precise control of their metallurgy and crystal structure. Unlike most other casting techniques, centrifugal casting is chiefly used to manufacture stock materials in standard sizes for further machining, rather than shaped parts tailored to a particular end-use. In centrifugal casting, a permanent mold is rotated continuously about its axis at high speeds (300 to 3000 rpm) as the molten metal is poured. The molten metal is centrifugally thrown towards the inside mold wall, where it solidifies after cooling. The casting is usually a fine-grained casting with a very fine-grained outer diameter, owing to chilling against the mould surface. Impurities and inclusions are thrown to the surface of the inside diameter, which can be machined away. Casting machines may be either horizontal or vertical-axis. Horizontal axis machines are preferred for long, thin cylinders, vertical machines for rings.

COST ESTIMATION

Plant Capacity	1.10 MT/day
Land & Building (3500 Sq.Mtr)	Rs 2.30 Cr
Plant & Machinery	Rs 1.13 Cr
W.C. for 2 Months	Rs 78.53 Lacs
Total Capital Investment	Rs 4.32 Cr
Rate of Return	25%
Break Even Point	64%

STEEL DRUM AND BARRELS [CODE NO.1824]

A mild steel drums will be rich in the tensile properties and reliability. This property of a packing materials is highly required because on the packing materials the safety of the product depends. Moreover, the M.S. Drums are resistant to internal and outside pressure enabling their use as pressure containers Mild Steel drums are available in all sizes and our present report deals in the Steel Barrels of 210 to 240 Ltr. capacity having thickness of 0.9 to 1.6 mm, diameter 570 mm +- 2mm and height of drum would be 880 mm to 990 mm. The basic mechanics of barrel production have remained essentially the same. A cutter is drawn through the barrel at a specified rate of twist and slowly cuts one groove at a time. Called cut rifling, it was the first method ever used to rifle a barrel. A small hook-shaped cutter is pulled through the barrel to remove a tiny amount of metal. When a pass is complete, the barrel is rotated or indexed to the position of the next groove.

COST ESTIMATION

Plant Capacity	1000.00 NOS/day
Land & Building	US\$ 24.80 Lacs

Plant & Machinery	US\$ 1.89 Lacs
W.C. for 2 Months	US\$ 7.45 Lacs
Total Capital Investment	US\$ 36.63 Lacs
Rate of Return	52%
Break Even Point	30%

GROUND NUT OIL [CODE 1825]

Peanut oil, also known as groundnut oil or arachis oil, is a mild tasting vegetable oil derived from peanuts. The oil is available in refined, unrefined, cold pressed, and roasted varieties, the latter with a strong peanut flavor and aroma, analogous to sesame oil. It is often used in Chinese, South Asian and Southeast Asian cuisine, both for general cooking, and in the case of roasted oil, for added flavor. Peanut oil has a high smoke point relative to many other cooking oils, so is commonly used for frying foods. Its major component fatty acids are oleic acid (46.8% as olein), linoleic acid (33.4% as linolein), and palmitic acid (10.0% as palmitin). The oil also contains some stearic acid, arachidic acid, arachidonic acid, behenic acid, lignoceric acid and other fatty acids.

COST ESTIMATION

Plant Capacity	1.00 MT/day
Land & Building (100 Sq.Mtr)	Rs. 4.00 Lacs
Plant & Machinery	Rs.3.20 Lacs
W.C. for 3 Months	Rs. 42.12 Lacs
Total Capital Investment	Rs. 49.97 Lacs
Rate of Return	67%
Break Even Point	28%

POLYOLS FROM CASTOR OIL [CODE NO.1826]

Natural oil polyols, also known as NOPs or biopolyols, are polyols derived from vegetable oils by several different techniques. The primary use for these materials is in the production of polyurethanes. Most NOPs qualify as biobased products, as defined by the United States Secretary of Agriculture in the Farm Security and Rural Investment Act of 2002. NOPs all have similar sources and applications, but the materials themselves can be quite different, depending on how they are made. All are clear liquids, ranging from colorless to medium yellow. Their viscosity is also variable and is usually a function of the molecular weight and the average number of hydroxyl groups per molecule (higher mw and higher hydroxyl content both giving higher viscosity.) Odor is a significant property which is different from NOP to NOP. Most NOPs are still quite similar chemically to their parent vegetable oils and as such are prone to becoming rancid. This involves autooxidation of fatty acid chains containing carbon-carbon double bonds and ultimately the formation of odoriferous, low molecular weight aldehydes, ketones and carboxylic acids. Odor is undesirable in the NOPs themselves, but more importantly, in the materials made from them.

COST ESTIMATION

Plant Capacity	1.00 MT/day
Land & Building (3000 Sq.Mtr)	Rs. 1.99 Cr
Plant & Machinery	Rs 1.25 Cr
W.C. for 1 Month	Rs. 2.12 Cr

25 PVC (POLY VINYL CHLORIDE) & PVC BASED PROFITABLE PROJECTS

1. BLISTER FILM P.V.C
2. FOAMED PVC COMPOUNDING & ITS PRODUCTS (PROFILES, BOARDS, PIPES, ETC.)
3. P.V.C. NON-WOVEN MAT
4. P.V.C. INSULATION TAPE
5. P.V.C. PIPES & FITTINGS
6. P.V.C. COMPOUNDING (FRESH)
7. P.V.C. BATTERY SEPARATOR
8. P.V.C. FLEXIBLE PIPES
9. P.V.C. FOOT WEAR
10. P.V.C. LEATHER CLOTH
11. P.V.C. WIRES AND CABLES
12. P.V.C. FILMS
13. P.V.C. GRANULES FROM PLASTIC WASTE
14. P.V.C. CONDUIT PIPES
15. P.V.C. COVER & FILES (CONFERENCE BAGS, FOLDERS, FILE COVERS, DIARY COVERS ETC.)
16. P.V.C./PLASTICS (SOFT/RIGID) FILMS/SHEET
17. P.V.C. INSULATION TAPE
18. P.V.C. STABILIZERS
19. P.V.C. EXTRUSION PROFILES (WIRING CHANNELS)
20. P.V.C. RESIN FROM CALCIUM CARBIDE
21. P.V.C. INDUSTRIAL PRODUCTS (INJECTION MOULDED)
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

Each Project Report covers in this CD contains Introduction, Uses, Market, Process with Product Formulae, Suppliers of Plant & Equipments and Raw Materials, Cost Economics with Profitability Analysis, BEP, Resources of Finance etc.

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Total Capital Investment	Rs. 5.53 Cr
Rate of Return	32%
Break Even Point	48%

RICINOLEIC ACID [CODE NO. 1827]

Ricinoleic acid, formally called 12-hydroxy-9-cis-octadecenoic acid is a fatty acid. It is an unsaturated omega-9 fatty acid.[1] It is a major component of the seed oil obtained from mature Castor plant (*Ricinus communis* L., Euphorbiaceae) seeds or in sclerotium of

Patrons : you can deposit the amount in EIRI Current Account UNION BANK OF INDIA 307201010015149 (IFS Code: UBIN0530727)

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ergot (*Claviceps purpurea* Tul., Clavicipitaceae). About 90% of the fatty acid content in castor oil is the triglyceride formed from ricinoleic acid.

COST ESTIMATION

Plant Capacity	20.00 MT/day
Land & Building (4000 Sq.Mtr)	Rs.2.65 Cr
Plant & Machinery	Rs 1.55 Cr
W.C. for 1 Month	Rs. 11.52 Cr
Total Capital Investment	Rs. 15.87 Cr
Rate of Return	56%
Break Even Point	27%

UNDECENOIC ACID [CODE NO.1828]

Undecenoic Acid is the parent substance for the synthesis of several higher alcohols and aldehydes especially those containing nine and eleven carbon items. Noncyclic aldehyde can be obtained from Undecylenic acid or from heptaldehyde. Reduction of Undecylenic acid with sodium and alcohol converts its into Undecylenic alcohol which is characterised by a flowery odour with a persisting fatty note. Reduction by free hydrogen in the presence of colloidal palladium as catalyst saturates the double bond producing Undecylenic acid which can be converted into Undecylenic alcohol a valuable modifier and a tip note compound. This alcohol can be oxidised to give the corresponding aldehyde an equally important product for the perfumery industry.

COST ESTIMATION

Plant Capacity	15.00 Ton/day
Land & Building (5000 Sq.Mtr)	Rs.5.91 Cr
Plant & Machinery	Rs 5.10 Cr
W.C. for 2 Months	Rs. 15.41 Cr
Total Capital Investment	Rs. 27.33 Cr
Rate of Return	114%
Break Even Point	29%

PORTABLE SOLAR POWER SYSTEMS (SOLAR PANELS, SOLAR LANTERN, PORTABLE SOLAR HOME LIGHTING SYSTEMS, SOLAR PANEL FOR FANS, SOLAR WATER PUMPS ETC.) [CODE NO. 1829]

Solar panel refers either to a photovoltaic's (PV) module, or to a set of solar photovoltaic's modules electrically connected and mounted on a supporting structure. A PV module is a packaged, connected assembly of solar cells. Solar panels can be used as a component of a larger photovoltaic system to generate and supply electricity in commercial and residential applications. Each module is rated by its DC output power under standard test conditions, and typically ranges from 100 to 320 watts. The efficiency of a module determines the area of a module given the same rated output –an 8% efficient 230 watt module will have twice the area of a 16% efficient 230 watt module. There are a few solar panels available that are exceeding 19%

efficiency. A single solar module can produce only a limited amount of power; most installations contain multiple modules. A photovoltaic system typically includes a panel or an array of solar modules, an inverter, and sometimes a battery and/or solar tracker and interconnection wiring.

COST ESTIMATION

Land & Building (2000 Sq.Mt)	Rs.1.48 Cr
Plant & Machinery	Rs 74.90 Lacs
W.C. for 2 Months	Rs.76.45 Cr
Total Capital Investment	Rs.78.89 Cr
Rate of Return	28%
Break Even Point	34%

PORTABLE SOLAR POWER SYSTEMS (SOLAR PANELS, SOLAR LANTERN, PORTABLE SOLAR HOME LIGHTING SYSTEMS, SOLAR PANEL FOR FANS, SOLAR WATER PUMPS ETC.) [CODE NO. 1829]

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COST ESTIMATION

Land & Building (2000 Sq.Mt)	Rs.1.48 Cr
Plant & Machinery	Rs 74.90 Lacs
W.C. for 2 Months	Rs.76.45 Cr
Total Capital Investment	Rs.78.89 Cr
Rate of Return	28%
Break Even Point	34%

WARE HOUSE (CODE NO.1830)

A simple definition of a warehouse is: 'A warehouse is a planned space for the storage and handling of goods and material.' In general, warehouses are focal points for product and information flow between sources of supply and beneficiaries. However, in humanitarian supply chains, warehouses vary greatly in terms of their role and their characteristics. The global warehousing concept has gained popularity over the last decade as stock pre-positioning becomes one of the strategies for ensuring a timely response to emergencies.

COST ESTIMATION

Land & Building (20000 Sq.Mtr)	Rs.1.44 Cr
Plant & Machinery	Rs 74.90 Lacs
W.C. for 3 Months	Rs. 25.69 Lacs
Total Capital Investment	Rs. 2.71 Cr
Rate of Return	25%

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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 leucoplasts 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%

54 PAINT, VARNISH, SOLVENTS, LACQUERS, RESINS, ENAMEL, PIGMENTS THINNER AND POWDER COATING PROJECT REPORTS (54 PROJECT REPORTS IN CD)

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13. ENAMELLING OF COPPER WIRE
14. EPOXY RESINS
15. GLASS PUTTY
16. GLASS COATING SOLUTION
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21. LACQUER EMULSION FOR LEATHER FINISHING & N.C.LACQUER FOR LEATHER FINISHING (FORMULATION & MANUFACTURING PROCESSES)
22. NAPHTHA BASED THINNER
23. N.C.PUTTY
24. N.C. THINNERS USED IN AUTOMOBILES
25. OIL-BOUND DISTEMPER PAINTS
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29. POWDER COATING PAINTS
30. PAINT AND REDUCER
31. PRIMER PAINTS, ENAMEL PAINTS & DISTEMPER
32. POWDER COATING
33. PRIMER PAINTS & ENAMEL PAINTS
34. POLY VINYL ACETATE EMULSION
35. PIGMENTS BINDERS FOR TEXTILE PRINTING
36. PUTTY AND WATER PROOFING PAINT
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
51. VARNISH (CLEAR) FOR WOOD (FLAME-RETARDING TYPE)
52. WOOD PRIMER FOR PAINTS
53. WALL PUTTY
54. WIRE ENAMEL

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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 polysaccharides, composed of glucopyranose units joined together by glucosidic linkages. It conforms to the molecular formula, (C₆H₁₀O₅)_n, 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 carbohydrates 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 CO₂ which produces CO and activated carbon. The CO₂ is regenerated and the lost carbon is recovered using the boudouard reaction to produce CO₂ 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 consists 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 crockery 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, ALGAE & 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

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
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 productively 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 tonnes 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 bubbles 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. Dioctyl 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 or 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 like 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)2 [14215-15-7], AlCl2(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 gloire, 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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EACH DETAILED PROJECT REPORT CONTAINS:

- **INTRODUCTION** : Project Mix, Uses & Applications, Quality Control Measure & Their Introduction for Attaining Required Properties Economy & Productivity Competence.
- **MARKET SURVEY** : Market Position, Installed Capacity Production, Anticipated Demand, Present Manufacturers, Statistics of Imports & Exports, Estimated Demand, Demand & Supply Gap (If available), L1/IL Issued Recently
- **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 & Equipments, Prices of 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.

For assessing Market Potential, Corporate Diversifications, Planning, Investment Decision Making and to start your own setup, Entrepreneurs and Industrialists are most welcome to contact EIRI.

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on following lucrative products which are most viable and profitable and having bright future scope

- * COPPER SULPHATE FROM COPPER ASH/SCRAP
- * CHELATED ZINC (ZN-EDTA) 12%
- * ORTHOPAEDIC IMPLANTS AND INSTRUMENTS
- * BARLEY MALT
- * MINERAL TURPENTINE OIL (M.T.O.) FROM PETROLEUM (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"> * STEEL FABRICATION * STEEL ROLLING MILL (REINFORCEMENT BAR) * ACRYLIC BATH TUB BY ACRYLIC SHEET * FABRICATION OF HEAT EXCHANGER * KITCHEN PRODUCTS MADE OF STAINLESS STEEL * ALUMINIUM BEVERAGE CAN * STEEL ROLLING MILL (BY INDUCTION FURNACE FROM STEEL SCRAP & SPONG IRON * M.S. BILLET CASTING WITH INDUCTION FURNACE FROM STEEL SCRAP & SPONGE IRON * PROCESSING OF LOW GRADE TUNGSTEN ORE FULL BODY & CHASSIS BUS PLANT * ASSEMBLY OF AIR – CONDITIONER/CHEST FREEZER/REFRIGERATOR * G.I.LADDER & PERFORATED TRAYS * ALUMINIUM DOORS & WINDOWS (ALUMINIUM FABRICATION) * LEAF SPRINGS FOR TRACTOR DRAWN TROLLEYS & FOUR WHEELER TEMPOS * STEEL BRIGHT BARS * AUTOMOTIVE ENGINE VALVE * AUTOMOTIVE BRAKING SYSTEM * DISPLAY COOLER * ERW STEEL PIPES & TUBES * STEEL INGOTS * TMT STEEL BARS (SARIYA) * AUTOMOBILE TRACTORS * ACTIVATED ALUMINA BALLS * ALUMINIUM FOIL * STONWARE PIPE (S.W.PIPE)/ CLAY PIPE * IRON ORE PELLETIZATION * ELECTRIC CONTROL PANEL * SOLAR PV POWER PLANT * MACHINE SHOP (FOR OIL AND GAS ENGINEERING INDUSTRY, AEROSCAPE ENGINEERING INDUSTRY) * STEEL BRIGHT BARS * CEILING FAN * COPPER STRIP COILS FROM SCRAPS * PRODUCTION OF PV PANELS (SOLAR PV PANELS) * ROTARY AIR LOCKS, SCREW CONVEYOR, MOTORIZED/ PNEUMATIC DAMPER, FLAP VALVES, AIR SLIDES * REQUIRED IN CEMENT PLANTS AND THERMAL POWER PLANT * ALUMINIUM EXTRUSION 	<ul style="list-style-type: none"> * ALUMINIUM COIL COATING FOR ACP AND ROOFING IND. * PAVING BLOCK * WIRE NAILS * TMT STEEL BARS * FASTENERS/NUT & BOLTS (INDUSTRIAL &AUTOMOBILE) * HYDRAULIC CYLINDERS * DISPOSABLE SYRINGES WITH NEEDLE PLANT * FABRICATION UNIT (PRESSURE VESSEL, REACTOR VESSEL & AGITATORS, HEAT EXCHANGERS) & SEAMLESS PIPES AND TUBES * COPPER POWDER FROM COPPER SCRAP * STONE CRUSHER * PRODUCTION OF ALL TYPES OF FANS SUCH AS AXIAL FANS,CENTRIFUGAL FANS (SMOKE EXTRACT FANS & FRESH AIR SUPPLY FANS), BATHROOM FANSETC. * STONE MINING * MAHINDRA CAR DEALERSHIP WITH AUTOMOBILE SERVICE STATION/GARAGE * AUTO FILTERS (AIR FILTERS, OIL FILTERS & FUEL FILTERS) * AAC & ACSR ALUMINIUM CONDUCTORS * MANGANESE ORE JIGGING * STEEL TRANSMISSION LINE TOWERS AND ROLLING MILL TO PRODUCE STEEL SECTIONS * FERRO SILICON (FROM MINERAL INGREDIENTS) STAINLESS STEEL TUBES * M.S.FASTENERS AND S.S. FASTENERS * PREFABRICATED STEEL FRAMED BUILDING MANUFACTURING PLANT * LEAD ACID BATTERY * GALVANISED WIRE * POWER TRANSFORMER (50 KVA TO 2000 KVA) * M.S. PIPE * GALVANISED IRON SHEETS * M.S.BILLETS * STEEL GRATING (GALVANISING ELECTRO FORGED STEEL GRATING) * ALLOY WHEELS PLANT * ESTABLISHMENT OF MANUFACTURING OF REFRIGERATING APPLIANCE * WELDED WIRE MESH * ALUMINIUM COLD ROLLING MILL FOR SHEETS & CIRCLES * ALUMINIUM ROLLING MILL FOR MANUFACTURING ALUMINIUM CIRCLES 	<ul style="list-style-type: none"> REQUIRED FOR PRESSURE COOKERS, NON STICK COOKWARES & CIRCLES * LPG CYLINDER * ALUMINIUM COMPOSITE PANNELS * DEEP FREEZER * ENVIRONMENTAL CLEARANCE FOR EXPANSION OF INGOTS/ BILLETS PLANT * FERRO SILICON BY SMELTING PROCESS * ALUMINIUM CONDUCTOR * PRESTRESSED CONCRETE POLES * FASTENERS (NUT & BOLT) USED IN OIL AND GAS * ALUMINIUM ALLOY PLANT * STAINLESS STEEL SINKS * ALUMINIUM ALLOY PLANT * P.V.C BATTERYSEPARATOR * AUTOMOTIVE TYRE AND TUBE VALVES (VALVES MANUFACTURING) * PRESSURE COOKWARE ALUMINIUM, STAINLESS STEEL & HARD ANODIZED * ELECTRIC WATER HEATER * SOLAR WATER HEATER DOMESTIC & INDUSTRIAL * CORRUGATED COLOURED ROOFING GALVANISED IRON SHEET * PRESSURE DIE CASTING * G.I.WIRE AND BARBED WIRE * G.I.WIRE & M.S. BINDING WIRE * HOT DIP GALVANIZING PLANT FOR STRUCTURAL STEEL AND PIPES * COLD ROLLING MILL * DOOR HINGES (MILD STEEL AND STAINLESS STEEL) * PRESSURIZED AEROSOLS (LIKE BODY SPRAYS, PERFUMES, SHAVING FOAM AND SHAVING LOTIONS ETC.) * ANHYDROUS SODIUM DITHIONITE PRODUCTION (SODIUM FORMATE PROCESS) * SODA ASH PLANT (FROM SOLUTION BRINE) * SISAL FIBRE REINFORCED * CEMENT ROOFING SHEET * HIGH ALUMINA REFRACTORY BRICK PLANT * CATHETERS MANUFACTURING * SURGICAL RUBBER DISPOSABLE GOODS 	<ul style="list-style-type: none"> * POULTRY AND HATHERY FARMING * MILK PROCESSING PLANT * ROASTED, SALTED ALMONDS, PEANUTS FOR PACKING IN 25g, 50g,250g & 500g SACHET-S * BEER FROM POTATOES * GUAR GUM POWDER * AUTOMATIC WHITE BREAD MAKING PLANT * AUTOMATIC BISCUIT MAKING PLANT * FROZEN FOOD BY IOF TECHNOLOGY * WALNUT PROCESSING PLANT * WHIPPING CREAM FRUITS & VEGETABLES POWDER UNIT (EXPORTS ORIENTED UNIT) * NATURAL MEDICINE & RESEARCH INSTITUTE WITH 150 BEDS HOSPITAL * PACKAGED DRINKING WATER (PACKED IN 330 ml CUP, 500ML BOTTLE, 1500 ML BOTTLE AND 20 LTR. JAR) * COLD STORAGE (CONTROLLED ATMOSPHERE OR CA) FOR POTATO CAP: 1,00,000 BAGS (50 Kg/Bag), STORING CAP: 5000 Mt, SOLVENT EXTRACTION & REFINING (SOYABEAN) (Cap- 250mt/day & 50mt/Day oil Refining) * BOTTLING PLANT (WHISKY, BRANDY, RUM, VODKS, GIN) FROM RECTIFIED SPIRIT/ENA LUBE OIL BLENDING AND GREASES PLANT * COLD STORAGE FOR POTATO 1,00,000 BAGS (50 KG/BAG) * MAIZE FLOUR & BY PRODUCT MANUFACTURING PLANT * CUT FLOWER (GLADIOLI, MARGOLD, STATICE, CHRYSANTHEMUM ROSE WITH GREEN HOUSE) * CATTLE FARMING AND DAIRY PRODUCTS * COLD STORAGE FORPOTATO AND OTHER HORTICULTURE PRODUCTS Cap:- 5000 Mt or 100000 Bags (50 Kg/Bag) * DEXTROSE PLANT * SBR RUBBER SHEETS AND SHOE MANUFACTURING * CASHEW NUT PROCESSING * PLYWOOD AND PLYBOARD PARTICLE BOARD AND LAMINATED PARTICLE BOARD * VENEER MAKING, PLYWOOD & PLYBOARD MAKING * WALNUT & PINUS(CHILGOZA) OIL, SHELL POWDER PROCESSING PLANT * COUNTRY LIQUOR BOTTLING PLANT (1,00,000 BOTTLES/ DAY)
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<ul style="list-style-type: none"> * PLASTIC GRANULES FROM PLASTIC WASTE * ROPE AND SUTLI MAKING PLANT * BOTTLING PLANT (COUNTRY LIQUOR) 10,000 LTRS./DAY) * I.V. FLUID (FFS OR BFS TECHNOLOGY) * TOXIN PAN MASALA, TOBACCO LESS GUTKHA AND ZARDA * RUBBER & FLAT TRANSMISSION BELT CONVEYOR BELT * UPVC DOORS & WINDOWS FABRICATING PLANT (Fixing and Installation of Door and Windows of uPVC profiles) * RUBBER & FLAT TRANSMISSION BELT CONVEYOR BELT * MUSTARD OIL PROCESSING PLANT (EXPPELLER PROCESS) * MEDICAL COLLEGE WITH 750 BEDS HOSPITAL FACILITY * MICRO IRRIGATION PRODUCT MANUFACTURING PLANT * HOT DIP GALVANIZING MUSTARD OIL PROCESSING PLANT (EXPPELLER PROCESS) * CEMENT TILES, CANAL LINE SLAB, KERV STONE, PAYER RCC PIPE, MANOHOLE COVER,ENTERLOCKING ETC. MANUFACTURING PLANT * MEDICAL COLLEGE (100 STUDENT INTAKE CAP. MEDICAL COLLEGE WITH 500 BED HOSPITAL) * ESTABLISHMENT OF A PRIVATE UNIVERSITY * DIGITAL INKS * GALVANIZING PROCESS PLANT FOR ELECTRICAL POLES * MAIZE PROCESSING PLANT * 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. * BABY CARE PRODUCTS * FAT LIQUOR (CHLORINATED PARAFFIN WAX) * BOTTLING OF WHISKY * UPVC DOORS & WINDOWS PROFILES * EPDM RUBBER PROFILES * FAT LIQUOR (CHLORINATED PARAFFIN WAX) * FAST FOOD RESTAURANT WITH CENTRALISED KITCHEN 	<ul style="list-style-type: none"> * READY MADE GARMENT (T-SHIRT/POLO GOLFER/ WOVEN SHIRTING & SUITING FOR UNIFORMS/SWEATERS) MANUFACTURING * BIO-DIESEL EXTRACTION FROM JATROPHA, SOYABEAN, SUNFLOWER, RICE BRAN, ALGE & CULTIVATION OF JATROPHA * FAST FOOD RESTAURANT CHAIN WITH CENTRALISED KITCHEN * GUAR SPLIT POWDER AND OTHER BY PRODUCTS * SOLVENT EXTRACTION PLANT (COTTON SEED) * RASGULLA MANUFACTURING AND CANNING * CULTIVATION OF RICE & WHEAT COMMERCIAL & MECHANISED DEVELOPMNT * MAIZE & 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 * TEAK FARMING * ARTIFICIAL MARBLE (SYNTHETIC) * POTATO STARCH CARDANOL FROM C.N.S.L. (CASHEWNUT SHELL LIQVID * INTEGRATED SCRAP YARD * POTATO STARCH * MANGO PULP (5 TON/HOUR 200 KG ASEPTIC PACKAGING) * BOTTLING PLANT (WHISKY, BRANDY, RUM, VODKA, GIN) FROM RECTIFIED SPIRIT/ENA * COW DAIRY FARMING (AYRSHIRE/HOLSTEIN) AND MILK PROCESSING MILK/DAY CAP-50,000 LTR/DAY * WHEAT FLOUR MILL * CHAKKI FLOUR MILL * I.V. FLUID (FFSTECHNOLOGY) * LIQUID GLUCOSE FROM POTATOES * SORBITOL FROM MAIZE STARCH * WALNUT PROCESSINGPLANT * SOLVENT EXTRACTION AND OIL REFINERY CUM PACKING OF RICE BRAN OIL * COTTON SEED OIL SOLVENT EXTRACTION PLANT * MARINE TRAINING INSTITUTE & PLACEMENT SERVICE PROVIDING AGENCY * I.V.FLUID (FFS TECHNOLOGY) * CERAMIC FIBERS, CERAMIC 	<ul style="list-style-type: none"> FIBRE BLANKET, CERAMIC FIBRE BOARD AND CERAMIC FIBRE ROPE * COLD SUPPLY CHAIN * LAMI TUBE MANUFACTURING * EYE DROP 3 PIECES (PLASTIC VIALS) * PET BOTTLES (CAMBER/ CLEAR IN COLOUR) CAP: 15ML,60ML 100ML,135ML, 200ML & 500ML * BENZYL ALKONIUM CHLORIDE (BKC) * NATURAL SUGAR WAX * MARGARINE BUTTERFROM VEGETABLE OIL * GREEN HOUSE FOR CROP PRODUCTION * ORGANIC DAIRY FARMING * E-WASTE * BIO-DIESEL FROM ALGAE * VANADIUM PENT OXIDE GRAPHITE MINING AND BENEFICIATION PLANT * VITAMIN WATER * PET PREFORM CUM PET BOTTLES * ORGANIC DAIRY FARMING AND PRODUCING WHOLE MILK POWDER (WMP) * HDPE BOTTLES * CAUSTIC SODA FROM SODIUM CHLORIDE * COAL TAR PITCH * MOSQUITO REPELLANT * WRIST BAND * CASTOR OIL AND ITS DERIVATIVES OLEO RESIN, TURKEY RED OIL, DCO, HCO, SEBACIC ACID, 12-HYDROXY STEARIC ACID * PAPAIN FROM PAPAYA * PROCESSED CHEESE * MONOCHLOROBENZENE * EUGENOL FROM CINNAMON OIL * SULPHUR 80% WDG * CERAMIC FIBERS, CERAMIC FIBRE BLANKET, CERAMIC FIBRE BOARD AND CERAMIC FIBRE ROPE * SCREEN PRINTING * DI CALCIUM PHOSPHATE FROM ROCK PHOSPHATE & HAIFA PROCESS * PVC FLEXIBLE PIPE * FLEX BANNER USED IN DIGITAL PRINTING * PIGMENTS BINDERS FOR TEXTILE PRINTING * POULTRY & HATCHERY FARM * ALOEVERA JUICE AND GEL * LIME PUTTY * AUTOMOBILE WORKSHOP/ GARAGE * EGG TRAY FROM PULP * CARDANOL FROM C.N.S.L. * OXYGEN GAS 	<ul style="list-style-type: none"> * POLYALUMINIUM CHLORIDE * NAMKEEN INDUSTRY (BHUIJA, CHANACHUR ETC.) * POLYOL USED FOR POLYURETHANES * POLYSTYRENE POLY PROPYLENE OXIDE * DIETHYL PHTHALATE * UREA FORMALDEHYDE AND MELAMINE * FORMALDEHYDE MOULDING POWDER * INSTANT COFFEE * ANNATTO SEED COLOUR EXTRACTION * FRUITS AND VEGETABLES DRYING BY (FREEZE DRYING METHOD) * BIO GAS PRODUCTION AND BOTTLING PLANT * JAM, JELLIES, FRUIT JUICE AND ALLIED PRODUCTS * MATERNITY NURSING HOME * CANNING & PRESERVATION OF VEGETABLES * CURCUMIN & TURMERIC OIL FROM TURMERIC * DETERGENT WASHING POWDER (ARIEL TYPE) * GRANITE SLAB AND TILES * TEA PACKAGING * PAN MASALA & GUTKHA * PRESTRESSED CONCRETE ELECTRIC POLES * LEATHER SHOES * ROTOGRAVURE PRINTING (FOR FLEXIBLE PACKAGING) * AUTOCALVED AERATED CONCRETE BLOCKS * OXYGEN AND NITROGEN GAS PLANT * MANGANESE ORE BENEFICATION * MINERAL WOOL * CALCIUM SILICATE * TOUGHENED GLASS * HUMIC ACID * OFFSET PRINTING UNIT (5 COLOUR) * CASTOR OIL AND ITS DERIVATIVES OLEORESIN * TISSUE PAPER PULPING FROM SAW DUST * KNITTED GLOVES * RADIATOR COOLANT * LATEX FOAM RUBBER (SPONG RUBBER) * GARLIC OIL AND POWDER * ACTIVATED CARBON & SODIUM SILICATE FROM PADDY/ RICE HUSK * TRIETHYLENE GLYCOL * RAMMING MASS * WOOD PEELING & VENEER MAKING * PETROLEUM JELLY * DAIRY FARM (COW & BUFFALO) TO PRODUCE
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<ul style="list-style-type: none"> * MILK & PACKAGING IN POUCHES * CUTTING OIL LIQUID GOLD (IN PASTE FORM) * P.V.C. LEATHER CLOTH (REXINE) * COAL TAR DISTILLATION * ALUMINIUM LABEL PRINTING * FOLDING CARTNS/MONO CARTONS * SURGICAL DISPOSABLE GLOVES (DIPPED RUBBER GOODS) * AGRICULTURAL CHEMICAL (PLANT GROWTH PROMOTER AND PLANT GROWTH REGULATOR) * MENTHOL BOLD CRYSTALS FROM MENTHOL FLAKES * ORGANIC FARMING * CORRUGATED POLYCARBONATE SHEET * COLD STORAGE * FLAT PVC LAMINATED * SAFTY GLASS/TOUGHENED GLASS * PLASTIC GRANULES FROM WASTE * DRY WALL PUTTY (WHITE CEMENT BASED) * CHARCOAL BRIQUETTE * OXALIC ACID FROM MOLASSES * POTATO GRANULES * SANITARY NAPKINS & BABY DIAPERS * CORRUGATED BOXES * PLASTER OF PARIS * RUBBER ROLLER FOR PRINTING MACHINE * LACTIC ACID * EMERY PAPER (SAND PAPER) * RUBBER RECLAIM SHEET FROM USED BUTYL TYRE AND TUBE * MANGO PULP * PARTICLE BOARD FROM BAGASSE AND RICE HUSK * TOILET PAPER & NAPKINS * TENDER COCONUT WATER * CALCIUM CARBONATE * LIME CALCINATION PLANT * INJECTION MOULDED PLASTIC COMPONENTS * HYDRATED LIME * BLACK PEPPER * MULTIAXIAL GLASS FABRIC * LIQUID TOILET CLEANER (HARPIC TYPE) * LIME & PRECIPITATED * CALCIUM CARBONATE * LIQUID GLUCOSE FROM BROKEN RICE 	<ul style="list-style-type: none"> * MEDICAL DISPOSABLE PLASTIC SYRINGES * METAL POLISHING BAR * SANITARY NAPKINS & BABY DIAPERS * PERFUMES/ATTAR * GEMS AND JEWELLERY * MULTIAXIAL GLASS FABRIC * ACTIVE ZINC OXIDE * COPPER PHTHALOCYANINE * TURMERIC OIL EXTRACTION FROM DRY TURMERIC * CNSL BASED RESIN IN LIQUID & POWDER FORM * BOPP FILM * BETA IONONE * BIO-FERTILIZER * ZINC & COPPER SULPHATE * PAPER BASED PHENOLIC SHEET (FOR ELECTRICAL APPLIANCE) * THINNERS (WHITE SPIRIT BASED) * SINGLE SUPER PHOSPHATE & SULPHURIC ACID * MONO CALCIUM PHOSPHATE & DI-CALCIUM PHOSPHATE * FLEXIBLE P.U. FOAM * ASPIRIN * SORBITOL FROM MAIZE STARCH * SPICE OIL & OLEORESIN * ANTI-FOAMING AGENT (SILICONE BASED) FOR DISTILLERY, SUGAR, PAPER PLANT ETC. * LAUNDRY & DRY CLEANER * BRICKS FROM STONE DUST * CARBOXY METHYL STARCH * TITANIUM DIOXIDE * UNDECYENIC ACID * PSA BASED NITROGEN GENERATOR * SYNTHETIC IRON OXIDE * PVC INSULATION TAPE * TAMARIND KERNEL POWDER * ORGANIC CHEMICAL & SOLVENTS * PLASTICIZERS * ICE PACK (SOLUTIONS TYPE, VIOLET-SEMI SOLID POLYMER TYPE) * GUM FROM TAMARIND * PEARL SUGAR CANDY (MISHRI) * GOAT & SHEEP FARMING * GYPSUM PLASTIC BOARD (AUTOMATIC PLANT) * NON-WOVEN INDUSTRY (CARRY BAGS, SURGICAL GOWN, FACE MASK, ROUND CAPS, SHOE COVER, GLOVE) * COTTON SPINNING, SIZING, 	<ul style="list-style-type: none"> * YARN, DYEING & WEAVING * CALCIUM CHLORIDE * AMINES & ALLIED PRODUCT * SPINNING COTTON * SILICONE FROM RICE HUSK * ADHESIVE (FEVICOL TYPE) * CAUSTIC SODA FROM ELECTROLYSIS * CAMPHOR TABLETS * CERAMIC GLAZED WALL AND FLOOR TILES * ZINC SULPHATE MONO * ETHANOL (BIO FUEL) FROM RICE STRAW * GYPSUM MOULDING AND GYPSUM BOARD * SMOKELESS COAL * ACID (SILICA) AND BASIC RAMMING MASS * UNSATURATED POLYESTER RESINS * DAIRY (BUFFALO) FARMING * SILICONE FROM RICE HUSK * N-ACETYL THIOZOLIDINE-4-CARBOXYLIC ACID (NATCA) * PE BASED CARBON BLACK COMPOUND * ONION DEHYDRATION * PVC PIPES & FITTING * GLASS REINFORCED * GYPSUM MOULDINGS * ABSORBENT COTTON & SURGICAL BANDAGES * CALCIUM STEARATE BY FUSION PROCESS * MANGO POWDER & OTHER FREEZE DRIED PRODUCTS * MENTHOL OIL FROM LEAVES AND MENTHOL * CRYSTALS (PEPPERMINT) * MANUFACTURE OF CELLULOSE ACETATE * ANTIFOAMING / DEFOAMING AGENT * ALOEVERA CULTIVATION & PROCESSING * SYNTHETIC MAGNESIUM SILICATES * EPHEDRINE * HYDROCHLORIDE * ACTIVATED BLEACHNG EARTH * TECHNICAL TEXTILES * FORMALIN FROM METHANOL * CATIONIC SOFTNER (STEARIC ACID BASED) * PRECIPITATED SILICA * PU BASED FOOT WEARS * FORMALDEHYDE RESIN (UREA, PHENOL, MELAMINE) * HDPE MONO FILAMEN NET * POTATO & ONION FLAKES 	<ul style="list-style-type: none"> * DUSTLESS CHALK (SCHOOL CHALK) * TOMATO POWDER * BIODEGRADABLE / COMPOSTABLE PLASTICS * ACRYLIC CO POLYMER EMULSION * ESTER GUM (FOOD GRADE) * PROTEIN BASED FOAMING AGENT * LECITHIN (SOYA BASED) * SOYA OIL AND CATTLE FEED FROM SOYA BEAN * COMPARISON BETWEEN FLY ASH AND CELLULAR LIGHTWEIGHT CONCRETE (CLC) BRICKS * CELL CAST ACRYLIC SHEET * ACRYLIC BATH TUB AND SHOWER TRAY * THERMOCOLE BASED DISPOSABLE PLATES * SODIUM SILICATE FROM RICE HUSK * ETHYL METHACRYLATE * SODIUM LAURYL ETHER SULPHATE * LATEX GLOVES, CONDOMS & CATHETER * CALCIUM NITRATE * GRAIN BASED ALCOHOL DISTILLERY * BULK DRUGS * MARBLE QUARRYING * CULTIVATION OF CAPSICUM IN GREEN HOUSE * SULPHUR 90% WDG * EGG POWDER * WOOD PLASTIC * COMPOSITE BOARD LINE * SODIUM LAURYL SULPHATE AND SODIUM LAURYL ETHER SULPHATE * FISH PROCESSING * BABY CEREAL FOOD & MILK POWDERS (BABY FOOD) * GUR (JAGGERY) * DAIRY PRODUCTS * CHLORINATED PARAFFIN WAX (CPW) * HAND WASHING DETERGENT POWDER USING THE DRY MIX PROCESS INCLUDING FORMULA OF DIFFERENT TYPES QUALITIES (LOW/ MEDIUM/HIGH COST) * HANDWASHING DETERGENT POWDER USING THE DRY MIX PROCESS INCLUDING
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Market Survey Cum Detailed Techno Economic Faeasibility Report on all Projects are available contact:

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Hi-Tech Projects, Apr'16, www.eiriindia.org # 14

<p>FORMULA OF DIFFERENT TYPES QUALITIES (LOW/ MEDIUM/HIGH COST)</p> <ul style="list-style-type: none"> * DIGITAL PHOTOPAPER/ INKJET PHOTOPAPER * KAOLIN FOR ROAD MAKING * PEPPERMINT CULTIVATION & PROCESSING * PEPPERMINT CULTIVATION & PROCESSING * HDPE PIPE * ACTIVATED CARBON FROM RICE HUSK * HT & LT INSULATOR, HT AIR BRAKE SWITCH D.O. FUSE, LIGHTENING ARRESTOR * PET BOTTLES IN CAP: 500ML, 1 LTR, 2 LTRS, 5 LTRS, USED FOR PACKAGED DRINKING WATER, EDIBLE OILS * ALCOHOLIC BEVERAGES (COUNTRY LIQUOR & IMFL) * QUARTZ BASED INDUSTRIES (QUARTZ POWDER SILICA SAND SILICA RAMMING MASS FUSED SILICA) * BEEDI (BIDI) BY MACHINE * RICE SHELLER * FRUIT RIPENING CHAMBER * MINERAL WATER AND PET BOTTLING PLANT * DIAGNOSTIC LAB AND * ONLINE TRADING BUSINESS * CEREAL MILLING * MINI OIL PLANT SUITABLE FOR GROUNDNUT OIL AND COTTON SEED OIL * CHANACHUR, BHUJIA, GANTHIA (AUTOMATIC PLANT) * KHADYA SURAKSHA (FOOD SECURITY) * PLASTIC WATER STORAGE TANKS * ZINC SULPHATE, MONOHYDRATE & HEPTA HYDRATE * CIGARETTE MANUFACTURING UNIT * CATTLE FEED PELLETS PLANT FOR COW & BUFFALOE FOR BOOSTING MILK AND GROWTH * TYRE RECYCLING UNIT * PAPAIN EXTRACTION INDUSTRY * CAKE SHOP * BUSINESS PROCESS 	<p>OUTSOURCE (B.P.O.)</p> <ul style="list-style-type: none"> * EMPTY HARD GELATINE CAPSULES * BIOFERTILIZER * PLASTIC MOULDING UNIT (CHAIR, TABLES & VEGETABLE TRAYS) * GOLD POTASSIUM CYANIDE (G.P.C.) * HDPE, PVC & CPVC PIPES AND FITTINGS * NO CARB PASTE (ANTICARBURIZING PASTE- WATER SOLUBLE) FOR HEAT TREATMENT * CONVERSION WASTE PLASTIC WITH TYRE INTO ACTIVATED CARBON AND INDUSTRIAL FUEL * PYROLYSIS PLANT FROM PLASTIC & RUBBER * COMPARISON BETWEEN FLY ASH AND CELLULAR LIGHTWEIGHT CONCRETE (CLC) BRICKS * AGAR AGAR * NAIL POLISH * PLASTIC GRANULES FROM WASTE * AGARBATTI SYNTHETIC PERFUMERY COMPOUNDS & AGARBATTI COMPOUNDS LIKE (CHAMPA, MOGRA, SANDAL WOOD & LOBAN) * PET PREFORM AND PET JARS (20 LTRS CAPACITY) * KRAFT PAPER FROM 100% WASTE PAPER * PRIVATE UNIVERSITY * LIQUID GLUCOSE AND MALTODEXTRIN FROM BROKEN RICE * DRY WALL PUTTY (WHITE CEMENT BASED) * CONSTRUCTION CHEMICALS OT PASTE * FUSED SILICA FROM SILICA SAND * BANANA CHIPS, BANANA PULP & BANANA POWDER (BANANA PRODUCTS) * CONFECTIONERY UNIT (TOFFEE, CANDY /LOLLIPOP CHEWING GUM, BUBBLE GUM CHOCOLATE) * FORMALDEHYDE RESIN (UREA, PHENOL, MELAMINE & THEIR MODIFIED RESINS) 	<ul style="list-style-type: none"> * EPDM RUBBER PROFILES (WEATHER STRIPS, INDUSTRIAL MONOSTRIPS ETC) * GRANITE CUTTING AND POLISHING UNIT (100% EOU) * SURGICAL COTTON, ROLLER BANDAGE, CREPE BANDAGE & PLASTER CART (READY MADE) E.G. GYPSONA 3M CART * ENTERTAINMENT CLUB, HOLIDAY RESORT, 4 STAR HOTEL, AMUSEMENT PARK CUM WATER PARK, MUSHROOM & ITS PRODUCTS, FISH FARMING, LAKE FOR BOATING, DEER PARK ETC. * HDPE, PVC, LLDPE PIPES/ TUBES AND FITTING * EPOXIDIZED SOYABEAN OIL (SECONDARY PLASTICIZER) USED IN PVC COMPOUND * POULTRY PROCESSING PLANT * B.O.P.P. SELF ADHESIVE TAPES * I.V.SET * MANGANESE OXIDE AND MANGANESE SULPHATE * ODOURLESS NYLON GRANULES FROM FIBER OF WASTE TYRE WITHOUT CHANGING PROPERTIES OF NYLON * PARTICLE BOARD FROM RICE HUSK OR WOOD WASTE OR SUGAR CANE BAGASSE OR MIXED OF ALL ABOVE * POULTRY LAYER AND BROILER FARMING * TOMATO, GUAVA AND MANGO PULP * GREEN HOUSE * HYDROXY PROPYL GUAR (HPG) AND CARBOXY METHYL HYDROXY PROPYL GUAR * BATHSOAP MANUFACTURE * PLASTIC MOULDED CHAIRS * FROZEN POTATO PATTY * CALCIUM ALUMINATE * ACTIVATED CARBON FROM COCONUT SHELL * RIGID PVC FILM MANUFACTURE FOR PHARMACEUTICALS BLISTER 	<p>PACKAGING</p> <ul style="list-style-type: none"> * NYLONE 66 CURING TAPE USED IN RUBBER HOSE PIPE WRAPPING * ANTIFOAMING/DEFOAMING AGENT LIKE ANTAROL T-709 * SOY AND GLUTEN BASED MOCK MEAT * KRAFT PAPER USING WASTE PAPER AND OLD CORRUGATED CARTONS * GLASS BOTTLE FOR BEER AND BEER MUG (TUMBLER) * DISPOSABLE SYRINGES AND NEEDLE PLANT (Single Use Syringes, Single Use Needles & As Syringes) * DIRECT FILLED BALL PEN (USE AND THROW) * BENZALKONIUM CHLORIDE * SPINNING COTTON (COTTON SPINNING PLANT) * CALCIUM CHLORIDE USING LIME STONE AND HYDROCHLORIC ACID * RUBBER POWDER FROM WASTE TYRES * CALCINATION PLANT FOR PYROPHYLLITE AND DIASPORE MINERALS BY VERTICAL SHAFT KILN PROCESS * ONION, GARLIC & GINGER DEHYDRATION PLANT * POTASSIUM NITRATE * POTASSIUM SULPHATE * N.P.K. FERTILIZER * CHICORY EXTRACT (ROASTED CHICORY GRANULES/CUBES, LIQUID EXTRACT ETC.) * SOLID WASTE SEGREGATION * LAMITUBE MANUFACTURE * BOARDING SCHOOL * CERAMIC FUSE TUBE/ BARRELS USED IN HRC FUSE * SODIUM POLYACRYLATE DISPERSANT FOR USE IN WATER BASED PAINT WITH DISPERSANT FOR PIGMENT * NAIL POLISH, LIPSTICKS, NAIL POLISH REMOVER * SOYA PRODUCTS (MILK, PANEER, TOFU, BUTTER, CHEESE CURD/YOGURT, ICE CREAM) WITH PACKAGING UNIT * GREASE MANUFACTURING
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TERMS AND CONDITIONS

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