

HI-TECH PROJECTS

(An Industrial Monthly Magazine on New Project Opportunities and Industrial Technologies)

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ENGINEERS INDIA RESEARCH INSTITUTE

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JUST PREPARED NEW PROJECTS FOR YOU

COPPER SULPHATE FROM COPPER ASH/SCRAP

[EIRI-1602]

Copper sulphate is a well known compound of copper. The commercial name of this compound is Blue Vitriol. Blue stone or chalcantihite. Copper sulphate is used in copper plating, as a mordant in dyeing, as a laboratory reagent, in electric batteries, in production of others salts, as germicide and insecticide in leather industry pulp in pigments in the preservation of wood, pulp and ground pulp in the process of engraving and lithography in ore flotation, destroying large and low forms of animal life from drinking water, in petroleum industry synthetic rubber, steel manufacture etc.

Cost Estimation

Plant Capacity	5 MT/Day
Land & Building (1500 Sq.Mtr)	Rs. 1.27 Cr.
Plant & Machinery	Rs. 49 Lacs
W.C. for 3 Months	Rs. 3.14 Cr.
Total Capital Investment	Rs. 5.00 Cr.
Rate of Return	45%
Break Even Point	34%

BARIUM CARBONATE FROM BARIUM SULPHIDE (BLACK ASH) [EIRI-1677]

Barium carbonate (BaCO₃), also known as witherite, is a chemical compound used in rat poison, bricks, ceramic glazes and cement. With rite crystallizes in the orthorhombic system. The crystals are invariably twinned together in groups of three, giving rise to pseudo-hexagonal forms somewhat resembling bipyramidal crystals of quartz, the faces are usually rough and striated horizontally. The mineral is named after William Withering, who in 1784 recognized it to be chemically distinct from barytes. It occurs in veins of lead ore at Hex ham in Northumberland, Alston in Cambria, Anglezarke, near Chorley in Lancashire and a few other localities. Witherite is readily altered to barium sulfate by the action of water containing calcium sulfate in solution and crystals are therefore frequently encrusted with barytes.

Cost Estimation

Plant Capacity	4 MT/Day
Land & Building (2000 Sq.Mt.)	Rs. 2.50 Cr.
Plant & Machinery	Rs. 1.80 Cr.
W.C. for 1 Month	Rs. 34 Lacs
Total Capital Investment	Rs. 4.87 Cr.
Rate of Return	34%
Break Even Point	48%

PLASTIC MOULDED CHAIRS (P.P.) [EIRI-1658]

Due to the very low consumption as compared to developed countries and even in India, a large gap is to be filled by introducing new and cost effective products. Customers with low purchasing power don't have any option other than plastic furniture. Middle and lower classes in Pakistan is major buyer and these classes are 65% of total population. Also there

are very few players in this business. The business of Molded Furniture has marked its place in the country through growth during the last ten years. This growth has opened up new opportunities. The prime reason for this is awareness about the product. Along with that, companies are offering conditional warranty of plastic chairs minimizing risk of customer. Molded Furniture is basically produces in developed countries to be used as Lawn Furniture and outdoor restaurants. As trends are from developed countries,

Cost Estimation

Plant Capacity	400 Nos./Day
Land & Building (Existing)	Rs. 25 Lacs
Plant & Machinery	Rs. 1.50 Cr.
W.C. for 1 Month	Rs. 7 Lacs
Total Capital Investment	Rs. 1.87 Cr.
Rate of Return	9%
Break Even Point	73%

KURKURA AND NAMKEEN

[EIRI-1659]

Namkeen products are in demand from over many years in India and are being exporting to many countries. Dal Moth, Chanachur & Bhujia are the important names enhancing the flavour & taste as processed foods. These are food products having no historical background & becomes in market and in social & cultural synonym as the society became more advanced. Initially in long-long ago, people did not heard the name of Dal moth, chur or Bhujia like food products. But now Days it is well known not in India but world wide. These are mainly consumed during breakfast period & are very much during social & cultural periods. These are used as tasty & flavored food as well as in medicinal way, however, a little it may be, according to ayurveda) because of their carminative stimulative digestive properties. India produces almost all these types of salty processed food products of grains all these types of salty processed food products of grains like Grams, Pulses etc. It aid in digestion and adsorption of food possesses anthelmintic and antiseptic properties.

Cost Estimation

Plant Capacity	20 MT/Day
Land & Building (2000 sq.mt.)	Rs. 3.60 Cr.
Plant & Machinery	Rs. 1.75 Cr.
Total Capital Investment	Rs. 10.20 Cr.
Rate of Return	47%
Break Even Point	36%

SORBITOL FROM CORN

[EIRI-1660]

Sorbitol, a polyol (sugar alcohol), is a bulk sweetener found in numerous food products. In addition to providing sweetness, it is an excellent humectant and texturizing agent. Sorbitol is about 60 percent as sweet as sucrose with one-third fewer calories. It has a smooth mouthfeel with a sweet, cool and pleasant taste. It is non-cariogenic and may be useful to people with diabetes. Sorbitol has been safely used in processed foods for almost half a century. It is also used in other

products, such as pharmaceuticals and cosmetics.

Cost Estimation

Plant Capacity	20 MT/Day
Land & Building (4 Acres)	Rs. 6 Cr.
Plant & Machinery	Rs. 17 Cr.
W.C. for 3 Months	Rs. 7.98 Cr.
Total Capital Investment	Rs. 31.69 Cr.
Rate of Return	16%
Break Even Point	68%

POLYTHENE ROLLED SHEET

[EIRI-1661]

Over 60 million tons of poly(ethene), often known as polyethylene and polythene, is manufactured each year making it the world's most important plastic. Its uses include film, packaging and containers, from bottles to buckets. Polyethylene is a thermosetting white solid high temperature resistance excellent resistance to chemical and to creep, high impact and tensile strength. The density of polyethylene is effected by the shape and spacing of the molecular chain, low density material, have highly branched and widely spaced chain, whereas high density materials have comparatively straight and closely aligned chain. Polymer of the latter type are called linear.

Cost Estimation

Plant Capacity	5 Ton/Day
Land & Building (1000 Sq.Mt.)	Rs. 1.44 Cr.
Plant & Machinery	Rs. 42 Lacs
W.C. for 1 Month	Rs. 1.19 Cr.
Total Capital Investment	Rs. 3.12 Cr.
Rate of Return	49%
Break Even Point	37%

SUPERABSORBENT POLYMER (POLY ACRYLIC ACID BASED)

[EIRI-1662]

Superabsorbent polymers are primarily used as an absorbent for water and aqueous solutions for diapers, adult incontinence products, feminine hygiene products, and similar applications. Undoubtedly, in these applications, superabsorbent materials will replace traditional absorbent materials such as cloth, cotton, paper wadding, and cellulose fiber. Commercial production of super absorbent polymers began in Japan in 1978, for use in feminine napkins. This early superabsorbent was a crosslinked starch-g-polyacrylate. Polyacrylic acids eventually replaced earlier superabsorbents, and is the primary polymer employed for superabsorbent polymers. European countries further developed the superabsorbent polymer for use in baby diapers.

Cost Estimation

Plant Capacity	10 MT/Day
Land & Building (1 Acre)	Rs. 2.40 Cr.
Plant & Machinery	Rs. 1.90 Cr.
Total Capital Investment	Rs. 14.70 Cr.
Rate of Return	38%
Break Even Point	36%

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41 PLASTIC EXTRUSION AND EXTRUDER BASED INDUSTRIES (41 Project Reports in CD Rs. 43,821)

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4. EXPANDED CELLULAR POLYETHYLENE SHEET
5. H.D.PE/P.P. BOX STRAPINGS
6. HDPE/PP WOVEN SACKS (BAGS)
7. HDPE FISHING NET
8. H.D.PE. AND FITTING PIPES
9. HDPE PIPES AND PIPE FITTINGS
10. INJECTION & BLOW MOULDED PLASTIC PRODUCTS
11. LAMINATION OF CO-EXTRUSION MULTI LAYER FILM IN ROLL FORM
12. MULTI LAYER CO-EXTRUSION, 3 LAYER - FILM WITH LAMINATION & PRINTING
13. NYLON GRANULES FROM NYLON WASTE
14. NYLON NET FOR GIVING SHADE TO TEA PLANT IN NURSERY
15. PET GRANULES (DANA)
16. PLASTIC INJECTION MOULDING PRODUCTS
17. PLASTIC MAT
18. PLASTIC MOULDED FURNITURE
19. P.V.C. PIPES AND FITTINGS
20. PLASTIC FILMS AND SHEETS WITH PRINTING (FLEXO AND ROTO) LDPE/HDPE/PP/HM/PVC
21. PLASTIC GRANULES FROM FRESH RESIN
22. PLASTIC ROPE
23. PLASTIC CORRUGATED SHEET & BOX
24. PLASTIC TOOTH PICK
25. POLY-VINYL FLOORING
26. PLASTIC TARPAULIN
27. POLYTHENE BAGS
28. PLASTIC SUTLI OR POLYPROPYLENE SUTLI
29. PVC EXTRUSION PROFILES (WIRING CHANNELS)
30. POLY CARBONATE SHEET
31. PVC/PLASTICS (SOFT/RIGID) FILMS/ SHEET
32. POLYSTER FILM
33. P.V.C. FLEXIBLE PIPES
34. PVC NON-WOVEN MAT
35. P.V.C. CONDUIT PIPES
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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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Top Industries to Start

BISCUIT (ASSORTED) AUTOMATIC PLANT

[EIRI-1663]

Around the world Biscuits is the principal food and provides more nutrients than any other single food source. The value of grain in the world used for human consumption is over 2, 3 times of the value of the world iron and steel production. Although only 14% of the grain in the world is handled through international channels, cereal grains make up more than half of all the goods in overseas trade. The same Biscuit is made up from the word 'BIS' Which means twice and 'Cut' means Balled suggesting that product should be twice balled. The Biscuit were originally developed to meet the requirement of longer life of the barley products and for this, purpose, the dough were made up and twice balled to make them moisture free to improve their keeping qualities.

Cost Estimation

Plant Capacity	5 MT/Day
Land & Building (1000 Sq.Mt.)	Rs. 1.47 Cr.
Plant & Machinery	Rs. 82.75 Lacs
W.C. for 1 Month	Rs. 53.93 Lacs
Total Capital Investment	Rs. 2.98 Cr.
Rate of Return	63%
Break Even Point	43%

SYNTHETIC PEARL COATING ON POLYSTYRENE BEADS

[EIRI-1664]

Pearl is one of the highly elegant variety of gem among others. Though the availability of pearl (natural) is limited in market. This is so costly that only limited number of people can purchase the same. For general categories of people it is the synthetic pearl which is largely available and used by the people. The plastic beads of suitable size is manufactured by plastic manufactures, which are either dip coated or spray coated by suitable coating material giving the same pearly effect on it. It gives same shining like natural pearl. It can be prepared in various shades depending on the addition of requisite dyes in the pearl coating compound.

Cost Estimation

Plant Capacity	4 Ton/Day
Land & Building (1000 Sq.Mt.)	Rs. 1.20 Cr.
Plant & Machinery	Rs. 50 Lacs
Total Capital Investment	Rs. 2.89 Cr.
Rate of Return	70%
Break Even Point	29%

SODIUM SULPHIDE

[EIRI-1665]

Sodium sulphide, Na₂S, is an organic chemical that has attained as very important position in the organic chemical industry. It is an important sulphide of sodium. It is widely used in leather industry for removing hairs from the hide. It finds extensive applications in textile and also synthetics of sulphur dyes and reduction of amino compounds. It is also used in paper industry, lithography and

engraving manufacture of sulphur black dyes etc. There was no production of sodium sulphide in India before the war, all the requirements being met from imports. Arrangements for the import of sodium sulphide failed and considerably difficulty was experienced by the textile and terming industries in meeting the requirements of the defense serious for textiles and leather.

Cost Estimation

Plant Capacity	50 MT/Day
Land & Building (2 Acres)	Rs. 4.30 Cr.
Plant & Machinery	Rs. 1.85 Cr.
W.C. for 3 Months	Rs. 5.08 Cr.
Total Capital Investment	Rs. 11.45 Cr.
Rate of Return	51%
Break Even Point	35%

SORBITOL FROM CORN

[EIRI-1666]

Sorbitol, a polyol (sugar alcohol), is a bulk sweetener found in numerous food products. In addition to providing sweetness, it is an excellent humectant and texturizing agent. Sorbitol is about 60 percent as sweet as sucrose with one-third fewer calories. It has a smooth mouthfeel with a sweet, cool and pleasant taste. It is non-cariogenic and may be useful to people with diabetes. Sorbitol has been safely used in processed foods for almost half a century. It is also used in other products, such as pharmaceuticals and cosmetics.

Cost Estimation

Plant Capacity	5 MT/Day
Land & Building (4000 sq.mt.)	Rs. 1.83 Cr.
Plant & Machinery	Rs. 3.41 Cr.
W.C. for 3 Months	Rs. 1.54 Cr.
Total Capital Investment	Rs. 6.88 Cr.
Rate of Return	50%
Break Even Point	41%

STEVIA CULTIVATION (ESPECIALLY MORITA VARIETY) AND EXTRACTION OF STEVIA BY PRODUCTS/ STEVIOSIDES/ SWEETENER FOR FOOD INDUSTRIES/ EXTRACTS FOR HEALTHCARE INDUSTRIES ETC. [EIRI-1667]

Stevia is a perennial shrub that extensively grows in places like Brazil, Central America and Israel but is native to Paraguay. The genus Stevia belongs to Asteraceae family, tribe Eupatoriaceae and comprises of 240 species. This plant grows mostly at the altitude of 500 - 3000 m above sea level in semidry mountainous terrain.

Cost Estimation

Land & Building (10 Hactare)	Rs. 2.63 Cr.
Plant & Machinery	Rs. 1.85 Cr.
Total Capital Investment	Rs. 4.70 Cr.
Rate of Return	12%
Break Even Point	69%

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<p>LIQUID GLUCOSE FROM POTATOES [EIRI-1530]</p> <p>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.</p> <p>Cost Estimation</p> <table border="0"> <tr><td>Plant Capacity</td><td>25 MT./Day</td></tr> <tr><td>Land & Building (Area 5 Acres)</td><td>Rs. 3.39 Cr.</td></tr> <tr><td>Plant & Machinery</td><td>Rs. 8.05 Cr.</td></tr> <tr><td>W.C. for 2 Months</td><td>Rs. 2.12 Cr.</td></tr> <tr><td>Total Capital Investment</td><td>Rs. 14.18 Cr.</td></tr> <tr><td>Rate of Return</td><td>18%</td></tr> <tr><td>Break Even Point</td><td>69%</td></tr> </table>	Plant Capacity	25 MT./Day	Land & Building (Area 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%	<p>corrosion concrete and particularly prestressed concrete poles can be considered as having an unlimited life without maintenance cost for their corrosion protection.</p> <p>Cost Estimation</p> <table border="0"> <tr><td>Plant Capacity</td><td>117 Nos/Day</td></tr> <tr><td>Land & Building (16'000 sq.mt.)</td><td>US\$ 10.60 Lacs</td></tr> <tr><td>Plant & Machinery</td><td>US\$ 10.89 Lacs</td></tr> <tr><td>W.C. for 2 Months</td><td>US\$ 5.56 Lacs</td></tr> <tr><td>Total Capital Investment</td><td>US\$ 27.56 Lacs</td></tr> <tr><td>Rate of Return</td><td>36%</td></tr> <tr><td>Break Even Point</td><td>60%</td></tr> </table>	Plant Capacity	117 Nos/Day	Land & Building (16'000 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%	<ol style="list-style-type: none"> 1. ALUMINIUM EXTRUSION 2. ALCOHOL FROM BROKEN RICE 3. AUTOMATIC BRICK PLANT 4. AUTOMATION CONTROL EQUIP. 5. BATTERY-OPERATED 3 WHEELER 6. BEER INDUSTRY 7. BED SHEET, BED COVER, SOFA CLOTH 8. BIOFERTILIZER 9. BUTYL RUBBER 10. BOTTLING PLANT 11. BIOCIDES FOR DISTILLER 12. BENEFICATION PLANT-MANGANESE ORE 13. CHICKEN FARMING (HATCHERY) 14. CORRUGATED SHEET BOARD & BOXES 15. COMPUTER SOFTWARE DEVELOPMENT 16. CONSTRUCTION CHEMICALS 17. CHICKEN PROCESSING 18. CHROME BENEFICATION PLANT 19. CASEIN FROM MILK 20. DEHYDRATION OF ONION & GARLIC 21. DEHYDRATION OF FRUITS & VEG. BY IQF TECHNOLOGY 22. DISPOSABLE PLASTIC SYRINGES 23. E.R.W. STEEL PIPES & TUBES 24. FERRIC ALUM 25. GUARGUM POWDER FROM GUAR SPLIT 26. HOSPITAL (100 BEDS) 27. IRON ORE MINING 28. INTEGRATED UNIT OF DAIRY, FARMING MILK COLLECTION ETC. 29. I M F L (WINE, BRANDY, WHISKY) 30. KATHA & KUTCH 31. KRAFT PAPER 32. KRAFT PAPER FROM BAGASSE 33. MULTIPRODUCTS 34. MULTIPURPOSE COLD STORAGE ETC. 35. MEGA FOOD PARK 36. M.S. PIPE (WELDED) 37. MEDICAL COLLEGE, HOSPITAL ETC. 38. MILD STEEL SECTION MILL (ANGLES, CHANNELS, ROUND, SQUARES, ETC.) 39. MONOCHLORO ACETIC ACID 40. MONOCHLORO ACETIC ACID FROM ETHANOL AND CHLORINE 41. MINERAL WATER CUM PET BOTTLE MANUFACTURING UNIT 42. PORTLAND CEMENT PLANT 43. POWER PLANT FROM BIO GAS 44. PRODUCTION OF BIO-OIL 45. PVC PIPE AND FITTING 46. PAPER PLANT 47. POWER PLANT (GAS BASED) 48. RESIDENTIAL COMPLEX (TOWNSHIP) 49. ROLLING MILL BY TMT TECHNOLOGY 50. ROLLING MILL WITH INDUCTION FURNACE 51. SUGAR PLANT 52. SPONGE IRON FROM IRON ORE 53. SOLAR POWER (ENERGY) PLANT 54. STEEL PLANT BASED ON INDUCTION FURNACE 55. STEEL PLANT (BILLETS) BASED ON INDUCTION FURNACE 56. STEEL TRANSMISSION LINE TOWER & HOT ROLLING MILL 57. SODIUM TRIPOLY PHOSPHATE 58. TYRES, TUBES & FLAP 59. TUBULAR STEEL SWEDGE TYPE POLE 60. TMT STEEL BARS 61. UREA FERTILIZER PLANT 62. VODKA FROM POTATOES 63. WOMEN POLYTECHNIC COLLEGE
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<p>RIGID PVC FILM MANUFACTURE FOR PHARMACEUTICALS BLISTER PACKAGING [EIRI-1533]</p> <p>Plastic films (PVC) have got wide uses including for garments and saree packaging. Polyvinyl chloride (P.V.C.) is one of not the largest single volume plastics material in general use in the world. It is potentially one of the lowest cost materials. 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.</p> <p>Cost Estimation</p> <table border="0"> <tr><td>Plant Capacity</td><td>2 Ton/Day</td></tr> <tr><td>Land & Building (1500 sq.mt.)</td><td>Rs. 2.10 Cr.</td></tr> <tr><td>Plant & Machinery</td><td>Rs. 3.93 Cr.</td></tr> <tr><td>W.C. for 3 Months</td><td>Rs. 1.33 Cr.</td></tr> <tr><td>Total Capital Investment</td><td>Rs. 7.75 Cr.</td></tr> <tr><td>Rate of Return</td><td>30%</td></tr> <tr><td>Break Even Point</td><td>51%</td></tr> </table>	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%	<p>FROZEN POTATO PATTY [EIRI-1529]</p> <p>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).</p> <p>Cost Estimation</p> <table border="0"> <tr><td>Plant Capacity</td><td>8 Ton/Day</td></tr> <tr><td>Land & Building (1500 sq.mt.)</td><td>Rs. 2.23 Cr.</td></tr> <tr><td>Plant & Machinery</td><td>Rs. 8.35 Cr.</td></tr> <tr><td>W.C. for 3 Months</td><td>Rs. 4.67 Cr.</td></tr> <tr><td>Total Capital Investment</td><td>Rs. 16.06 Cr.</td></tr> <tr><td>Rate of Return</td><td>24%</td></tr> <tr><td>Break Even Point</td><td>59%</td></tr> </table>	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%	<p>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.</p> <p>Price of this CD containing all above 63 Project Reports is Rs. 1,09,551/-. Payable fully in advance through Bank Draft/M.O. in favour of ENGINEERS INDIA RESEARCH INSTITUTE, DELHI. Delivery within 3 days. (To Order please dial : 098114-37895).</p>
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<p>PRESTRESSED CONCRETE POLES (PSC POLES) [EIRI-1534]</p> <p>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</p> <p>Cost Estimation</p> <table border="0"> <tr><td>Plant Capacity</td><td>30 MT./Day</td></tr> <tr><td>Land & Building (4000 sq.mt.)</td><td>Rs. 5.70 Cr.</td></tr> <tr><td>Plant & Machinery</td><td>Rs. 1.90 Cr.</td></tr> <tr><td>W.C. for 3 Months</td><td>Rs. 30.47 Cr.</td></tr> <tr><td>Total Capital Investment</td><td>Rs. 38.51 Cr.</td></tr> <tr><td>Rate of Return</td><td>54%</td></tr> </table>	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.	Rate of Return	54%	<p>HYDROXY PROPYL GUAR (HPG) AND CARBOXY METHYL HYDROXY PROPYL GUAR [EIRI-1526]</p> <p>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 hiwani, 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. The pods are used as a green vegetable or as a cattle feed besides extraction of guar gum.</p> <p>Cost Estimation</p> <table border="0"> <tr><td>Plant Capacity</td><td>30 MT./Day</td></tr> <tr><td>Land & Building (4000 sq.mt.)</td><td>Rs. 5.70 Cr.</td></tr> <tr><td>Plant & Machinery</td><td>Rs. 1.90 Cr.</td></tr> <tr><td>W.C. for 3 Months</td><td>Rs. 30.47 Cr.</td></tr> <tr><td>Total Capital Investment</td><td>Rs. 38.51 Cr.</td></tr> <tr><td>Rate of Return</td><td>54%</td></tr> </table>	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.	Rate of Return	54%					
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Start Your Own Industry

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, (C₆-H₁₀O₅)_n, where n varies from a few hundred to over one million. Starch is found as the reserve carbohydrate

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in various parts of plants and is enzymatically broken down to glucose to other erbohydrates 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.

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). Caulking compounds, putties and same cements have a boiled drying oil, usually combine with resins that act as the binder putty is the thick mixture of finally powdered calcium carbonate (whiting) and acid refined linseed oil which imparts good wetting and grinding characteristics. White Cement Based Wall Putty is a specially formulated product based on white cement blended with special fillers and additives to be used as putty, filler & sealer, on concrete / mortar walls and ceiling for both interiors & exteriors. It renders to the surface, smooth bright white coating suitable for over coating by

different kinds of water and solvent based paints, of attractive colors, giving a durable and smooth finish on the walls.

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%

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. 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. It is produced by initially making a slurry of Cement + Fly Ash + Water, which is further mixed with the addition of pre-formed stable foam in an ordinary concrete mixer.

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 a 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.

Cost Estimation

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

Top Industries to Start

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. Today, due to Industrialization and global competitive market trend, it has emerged as one of the major industrial activity in tiny, small, medium and large scale sector to cater to the needs of increasing population.

Cost Estimation

Plant Capacity	40 Ton/Day
Land & Building (Area 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 injection 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 2c.c. to 100c.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 (Area 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, GLASS & 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 (Area 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 be 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 (Area 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%

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 (Area 4000 sq.mt.)	Rs. 30 Lacs
Plant & Machinery	Rs. 1.14 Cr.
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%

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.

Cost Estimation

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

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Best Industries to Start and Grow

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 Urea-formaldehyde resins comprise about 80% of the amino resins produced worldwide.

Cost Estimation

Plant Capacity	30 MT/Day
Land & Building (Area 3 Acres)	Rs. 7.52 Cr.
Plant & Machinery	Rs. 2.11 Cr.
W.C. for 1 Months	Rs. 4.63 Cr.
Total Capital Investment	Rs. 14.73 Cr.
Rate of Return	56%
Break Even Point	36%

EPDM RUBBER PROFILES (WEATHER STRIPS, INDUSTRIAL MONO STRIPS ETC.) [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 is 8,00,000 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.
W.C. for 3 Months	Rs. 2.50 Cr.
Total Capital Investment	Rs. 8.60 Cr.
Rate of Return	37%
Break Even Point	43%

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.
W.C. for 1 Months	Rs. 95 Lacs
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.

Cost Estimation

Plant Capacity	2 Ton/Day
Land & Building (3000 sq.mt.)	Rs. 3.08 Cr.
Plant & Machinery	Rs. 28 Lacs
W.C. for 2 Months	Rs. 1.05 Cr.
Total Capital Investment	Rs. 4.50 Cr.
Rate of Return	35%
Break Even Point	66%

WHEAT FLOUR MILL [EIRI-1501]

India is ranked as the world's largest producer of a number of agri-products including milk and dairy products and pulses and the second largest producer of rice, wheat, sugar and cotton. The plant will have facility to produce, Maida, sooji, Atta and bran.

Cost Estimation

Plant Capacity	115 MT/Day
Land & Building (5000 sq.mt.)	Rs. 3.15 Cr.
Plant & Machinery	Rs. 1.72 Cr.
Total Capital Investment	Rs. 10.95 Cr.
Rate of Return	68%

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Start Your Own Industry

PLASTIC GRANULES FROM PLASTIC WASTE & PLASTIC ROPE (SUTLI) [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 (Area 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

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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 [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. Banana is basically a tropical crop, grows in temperature range of 13:C - 38:C with RH regime of 75-85%.

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. Method for the manufacture of translucent fused silica by fusion of sand surrounding a graphite rod through which a current is passed and subsequent manipulation of the hot plastic material were patented around the turn of

century. Not familiar with the Arabian Shield? Why would you be - the area has barely been touched. All you need to know is this: the Saudis call this region the Cradle of Gold, and they want to share it with you.

Cost Estimation

Plant Capacity	40,000 MT./Day
Land & Building (5 Acres)	Rs. 13.10 Cr.
Plant & Machinery	Rs. 4.28 Cr.
W.C. for 3 Months	Rs. 8.89 Cr.
Total Capital Investment	Rs. 26.79 Cr.
Rate of Return	19%
Break Even Point	71%

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 or cloth instantaneously wets it.

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 vitamin. 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. Most of the tomato products are prepared from tomato pulps, which is unflavoured, finely divided flesh and juice separated from skins and seeds. It is usually concentrated to a greater or less degree before used in other products.

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%

Top Industries to Start

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.

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. For producing

these semis, the liquid steel, in finished form is cast into ingots and subsequently rolled in several types of mills which are normally a part of the steel plant.

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.

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.

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%

PAPAIN EXTRACTION INDUSTRY [EIRI-1418]

The papaya is the fruit of the papaya tree (Carica papaya) native of Central America. The fruit ripens from 4 to 6 months depending on the climate where it is grown (Salunkhe and Kadam, 1995). The cultivation of this fruit has two main purposes: the sale of the fruit for human consumption and the extraction of enzymes that constitute 40% of the latex in 1 mm concentrations. The papain is a natural proteolytic enzyme that is extracted from the latex in the leaf, the stem and the papaya's unripe fruits. Papain is used in a many industrial fields (like pharmaceutical, brewery, meat, dairy, textile, photographic, optical, tanning, cosmetic, detergents, food & leather industry), because a synthetic enzyme is not capable of simulating the propertie of the natural enzyme, which increased its demand. The process to obtain raw papain consists of two main stages: latex extraction and drying. A third stage, purification, may be used if a purified papain is wanted. This work compares the crude enzymatic activity obtained from locally Carica papaya using the unripe fruit and the skin juice under different drying processes and evaluates the enzyme activity for the proposed purification procedure. A common enzyme known as papain is obtained from the green papaya (pawpaw) fruit.

Cost Estimation

Plant Capacity	100 KGS/Day
Land & Building (Area 3 Acres)	Rs. 90 Lacs
Plant & Machinery	Rs. 82 Lacs
W.C. for 3 Months	Rs. 62 Lacs
Total Capital Investment	Rs. 2.45 Cr.
Rate of Return	46%

MAIZE & BY-PRODUCTS PROCESSING [EIRI-1421]

Starch is an abundant carbohydrate distributed worldwide in plants. Starch has been a major ingredient in man's diet over the centuries. In addition it has become a major industrial raw material. Plant seeds, roots and tubers are all sources of industrial starch production. The commercial realities of the starch recovery process limit the industrial sources mainly to wheat, maize and tapioca. Indian starch industry mainly consumes maize as input raw material. Maize is doing wonderful things in our everyday life. Maize (Corn) contains about 70% starch, other components being protein, fibers and fat. The basis of the maize milling process is the separation of the maize kernel into its different parts.

Cost Estimation

Plant Capacity	50 TPD/Day
Land & Building (Area 10 Acres)	Rs. 1.03 Cr.
Plant & Machinery	Rs. 8.50 Cr.
W.C. for 1 Months	Rs. 2.16 Cr.
Total Capital Investment	Rs. 12.41 Cr.
Rate of Return	40%
Break Even Point	49%

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☛ **RAW MATERIALS** : Raw Material Specifications, Market Codes & Raw Material Prices, Sources of Procurement of Raw Materials [Imported/Indigenous]

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☛ **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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 * 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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 * CASHEW NUT PROCESSING
 * BIOGAS PRODUCTION (1500 CUBIC METER PER DAY)
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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 & CHASSISS 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 PELLETTIZATION * 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 * 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 FOR POTATO 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, KERVY 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 GOLFERS/ 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 * PAPAINE FROM PAPAYA * PROCESSED CHEESE * MONOCHLORO BENZENE * 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) * AUTO FLEAVED 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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Market Survey Cum Detailed Techno Economic Feasibility Report on all Projects are available contact:

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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 (CLO) 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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<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 	<ul style="list-style-type: none"> * PACKAGING * 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

Ask for the quotation for the required project report at
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