HI-TECH PROJECTS

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

> APRIL 2020 Issue (E-copy)



ENGINEERS INDIA RESEARCH INSTITUTE

Regd. Off : 4449, Nal Sarak, Main Road, Delhi - 110 006 (India) * Ph: +91 9811437895, 9289151047, 91-11-23918117, 43658117, 45120361 * E-Mail : eiri@eiriindia.org, eiritechnology@gmail.com

* Website: www.eirlindia.org, www.industrialprojects.in * PayTM: 9811437895

Deposit the amount in "EIRI "Account with HDFC BANK CA- 0553202001279 (RTGS/NEFT/IFSC CODE: HDFC0000553) OR ICICI BANK CA - 038705000994 (RTGS/NEFT/IFSC CODE: ICIC0000387) OR UNION BAK OF INDIA CA-307201010015149 (RTGS/NEFT/IFSC CODE: UBIN0530727) OR STATE BANK OF INDIA CA-30408535340 (RTGS/NEFT/IFSC CODE: SBIN0001067) AND JUST SMS US ON PH. 09811437895

MOST DEMANDABLE PROJECTS

AIR CONDITIONERS, LED TV, WASHING MACHINES AND REFRIGERATORS (INTEGRATED PLANT) [3288]

The Integrated Unit of Air Conditioners LED TV. Refrigerators and Washing Machines is being setup at Neemrana. There is tremendous demand in India as well as export demand. The said project will generate huge number of employment in this region. An air conditioner is a machine which keeps the air in a building cool and dry. The purpose of an air conditioner is to maintain a comfortable indoor environment. The comfort we are used is to determined by a combination of 3 factors. Temperature, • Humidity, • Air Distribution, For this reason, the main purposes of air conditioners are to: · Control room temperatures (cooling/heating). · Control room humidity levels (drying, humidifying) · Optimise air flow (circulation, distribution) · Clean the air (filtration). • An air conditione collects hot air from a given space, processes it within itself with the help of a refrigerant and a bunch of coils and then releases cool air into the same space where the hot air had originally been collected. This is essentially how all air conditioners work. . Many folks believe that an air conditioner produces chilled air with the help of machines installed inside it, allowing it to cool a room so quickly. That might also explain why it consumes so much electricity. In reality, however, that's a misconception. • An air conditioner is not a magical device; it just uses some physical and chemical phenomena very effectively to cool a given space. • When you switch an AC on and set your desired temperature (say, 20 degrees Celsius), the thermostat installed in it senses that there is a difference in the temperature of the room's air and the temperature that you've chosen. • A thermostat constantly monitors the temperature of the system so that it's maintained near a user's desired point. This warm air is drawn in through a grille at the base of the indoor unit, which then flows over some pipes through which the refrigerant (i.e., a coolant fluid) is flowing. The refrigerant liquid absorbs the heat and becomes a hot gas itself. This is how heat is removed from the air that falls on the evaporator coils. Note that the evaporator coil not only absorbs heat, but also wrings out moisture from the incoming air, which helps to dehumidify the room.

COST ESTIMATION (ALL FIGURE IN THOUSAND)

 Indicative
 Indicative

 Plant Capacity
 4666 Units/Day

 Land (202350 sq.mt.)
 Rs. 20.91 Lacs

 Plant & Machinery
 Rs. 2.28 Lacs

 W.C. for 2 Months
 Rs. 31.04 Lacs

 Total Capital Investment
 Rs. 54.42 Lacs

 Rate of Return
 124%

 Break Even Point
 12%

DISPOSABLE PLASTIC SYRINGES (2 ML. AND 5 ML. SIZE) [3290]

Disposable Plastic Syringes are being used by doctors to inject medicines through Intravenous or intramuscular ways for the treatment of diseases & also by research & development personnel. Disposable syringes are made of plastic material and are used in the field of medical and veterinary science. Due to their availability in sterilized condition, ready to use, and cost effectiveness, disposable syringes are fast replacing the age old glass syringes. Moreover, the horror of AIDS worldwide has almost dispensed with the reuse of syringes and the demand of disposable syringes has increased phenomenally. Disposable syringes are injection moulded mostly from polypropylene. Syringes are available in sizes of 1 ml, 2 ml, 5ml and 10ml, 50ml in a variety of designs and consist of either two or three components construction. The number and size of injection moulding machines required depend upon syringe construction, number of mould cavities annual production. These are made of plastic material have been successfully used in the medical and Pharmaceutical Practice for many years The constantly increasing use of this type syringe Indicates its importance which is based mainly on the advantages it offers regarding cost and hygienic applications

COST ESTIMATION

Plant Capacity	40000 Nos/Day	re
and & Building (10,000 Sq.F	Ft) Rs. 70 Lacs	wi
Plant & Machinery	Rs. 90 Lacs	on
W.C. for 2 Months	Rs. 24.20 Lacs	6
Total Capital Investment	Rs. 1.94 Cr.	Pla
Rate of Return	29%	lar
Break Even Point	58%	Pla
*****	****	1 141

DISTRIBUTION TRANSFORMER MANUFACTURING AND REPAIRING UNIT [3291]

A transformer is a device that transfers electrical energy from one circuit to another through inductively coupled conductorsthe transformer's coils. A varying current in the first or primary winding Cr.eates a varying magnetic flux in the transformer's core and thus a varying magnetic field through the secondary winding. This varying magnetic field induces a varying electromotive force (EMF), or "voltage", in the secondary winding. This effect is called inductive. If a load is connected to the secondary, current will flow in the secondary winding, and electrical energy will be transferred from the primary circuit through the transformer to the load. In an ideal transformer, the induced voltage in the secondary winding (Vs) is in proportion to the primary voltage (Vp) and is given by the ratio of the number of turns in the secondary (Ns) to the number of turns in

the primary (Np) as follows: By appropriate selection of the ratio of turns, transformer thus enables an alternating current (AC) voltage to be "stepped up" by making Ns greater than Np, or "stepped down" by making Ns less than Np. The windings are coils wound around a ferromagnetic core, air-core transformers being a notable exception. Transformers range in size from a thumbnail-sized coupling transformer hidden inside a stage microphone to huge units weighing hundreds of tons used to interconnect portions of power grids. All operate on the same basic principles, although the range of designs is wide. While new technologies have eliminated the need for transformers in some electronic circuits transformers are still found in nearly all electronic devices designed for household ("mains") voltage Transformers are essential for high-voltage electric power transmission, which makes long-distance transmission economically practical. A transformer is a device for transferring energy in a system from one circuit to another. It consists of two independent electric circuits linked with a common magnetic circuit. This energy at low voltage may be transformed to energy at high voltage, or vice versa. In the like manner, current of a given value in one circuit may be transformed into current of another value in a different circuit. the winding of the transformer connected to the supply circuit is termed as primary winding and these windings of the transformer that are connected to the ceiver circuits are called secondary ndings. Transformers having more than e primary or secondary winding etc.

2	COSTESTIMATIC	JN .
:	Plant Capacity	1.30 Nos/Day
5	land & Building (2000 Sq.mt)	Rs. 51 Lacs
5	Plant & Machinery R	s. 71.87 Lacs
k	W.C. for 1 Month F	Rs. 56.47 Lacs
	Total Capital Investment	Rs. 1.94 Cr
	Rate of Return	34%
	Break Even Point	61%
	******	*****

MINERAL WATER PROCESSING UNIT OF 3000 LIT CAP WITH

ADDED MINERALS [3292]

All living things need water. The Earth is full of water. Water is the most essential element, next to air, to our survival. Water makes up more than two thirds of the weight of the human body, and without it, we would die in a few days. Water is important to complete daily life and to maintain our body health. Thirty years ago "packaged drinking water? barely existed. Nowadays the product forms an essential business by its stable and still growing market - locally and globally. Packaged drinking water can be described as any product, including natural spring or well water, taken from municipal or private utility systems or other water, distilled water of any of the foregoing to which chemicals

Best Industries to Start and Grow

may be added and which are put into sealed bottles, packages or other containers, to be sold for domestic consumption or culinary use. In 2013 the global packaged drinking water market is forecast to have a value of \$94.2 billion, an increase of 41% since 2007. This increasing trend reveals that the product meets the demand of countless consumers. Water is our lifeline that cleans and feeds us. In ancient cultures, water represented the very essence of life. The Romans were the first to pipe water into their growing cities, especially with their aqueducts. They also realized that sewage water could cause damage to people and needed to be removed from the living environment. Water has played a role not only in the history of countries, but also in religion, mythology, and art. Water in many religions is symbolised as a soul cleanser and known as holy water. For example, water at St.Lourdes, France is thought by many religions to be sacred with healing powers It brought life to their people, but in drought, produced chaos. Water has always been perceived as a gift from the gods, as it rained from the heavens. Mineral Water originally meant water from various natural springs which are thought to be having medicinal and curative value. These spring waters, although contain dissolved chemicals of medicinal properties, also contain harmful micro-organisms. Besides this the underground and surface water is also not potable due to hardness as well as due to presence of toxic substances and Bacteria. This re-quires suitable treatment and purification to make it safe and potable drinking water with long shelf life. The water is packed in suitable food grade packing generally in PVC or PET Bottles of differ-ent capacities. Mineral water is water from a mineral spring that contains various minerals, such as salts and sulfur compounds. Mineral water may be effervescent or "sparkling" due to contained gases. Traditionally, mineral waters were used or consumed at their spring sources, often referred to as "taking the waters" or "taking the cure," at places such as spas, baths, or wells. The term spa was used for a place where the water was consumed and bathed in: bath where the water was used primarily for bathing, therapeutics, or recreation; and well where the water was to be consumed. Today, it is far more common for mineral water to be bottled at the source for distributed consumption. Travelling to the mineral water site for direct access to the water is now uncommon and in many cases not possible because of exclusive commercial ownership rights There are more than 4,000 brands of mineral water commercially available worldwide. The more calcium and magnesium ions that are dissolved in water, the harder it is said to be; water with few dissolved calcium and magnesium ions

is described as being soft. The U.S. Food and Drug Administration classifies mineral water as water containing at least 250 parts per million total issolved solids (TDS), originating from a geologically and physically protected underground water source. No minerals may e added to this water. In many places, however, the term "mineral water" is colloquially used to mean any bottled carbonated water or soda water, as opposed to tap water.

COST ESTIMATION

Plant Capacity	15000 LUS/Da	
land & Building (1500 Sq.m	t) Rs. 1.72 C	
Plant & Machinery	Rs. 56 Lac	
W.C. for 2 Months	Rs. 60.70 Lac	
Total Capital Investment	Rs. 3.06 C	
Rate of Return	37%	
Break Even Point	48%	

PECTIN FROM CITRUS FRUITS [3293]

Pectin (derived from Greek meaning "congealed, and curdled") is a structural heteropolysaccharide contained in the primary cell walls of terrestrial plants. It was first isolated and described in 1825 Heneri Bracannot. Pectin, by а multifunctional constituent of cell wall is a high value functional food ingredient widely used as gelling agent and as stabilizer. It is produced commercially in form of white to light brown powder, mainly extracted from citrus fruits, and is used in food as a gelling agent particularly in jams and jellies. It is also used in fillings, sweets, as a stabilizer in fruit juices and milk drinks and as a source of dietary fiber. In plant cells, pectin consists of a complex set of polysaccharides that are present in most primary cell walls and particularly abundant in the non-woody parts of nearly all terrestrial plants. Pectin is present not only in the primary cell walls but also in the middle lamella between plant cells where it helps to bind the cells together. The amount, structure and chemical composition of the pectin differs between plants, within a plant over time and in different parts of a single plant. During ripening, pectin is broken down by the enzymes pectinase and pectin esterase resulting in the process where the fruit becomes softer. This is because the middle lamella which primarily consists of pectin breaks down and cells become separated from each other. A similar process of cell separation caused by pectin breakdown occurs in the abscission zone of the petioles of deciduous plants at the time of leaf fall. Pectin is thus also a natural part of human diet, but does not contribute significantly to nutrition. As the literature reports, the daily intake of pectin from fruit and vegetables can be estimated to be around 5 g (where the consumption of approximately 500 g fruit and vegetable per day is estimated)3. In human that X-ray fibre diffraction patterns of

digestion, pectin goes through the small intestine more or less intact but is acted upon by microbial growth of large intestine Pectin thus acts as a soluble dietary fibre. Consumption of pectin has been shown to reduce blood cholesterol levels. The mechanism appears to be an increase of viscosity in the intestinal tract, leading to a reduced absorption of cholesterol from bile or food3. In the large intestine and colon, microorganisms degrade pectin and liberate shortchain fatty acids that have favorable influence on health (also known as prebiotic effect). In terms of structure, pectin is an essentially linear polysaccharide. Like most other plant polysaccharides, it is both polydisperse and polymolecular and its composition varies with the source and the conditions applied during isolation. In any sample of pectin, parameters such as the molecular weight or the contents of particular subunits differ even from molecule to molecule. The composition and structure of pectin are still not completely understood although pectin was discovered over 200 years ago. Through various studies it has been brought in notice that the structure of pectin is difficult to determine because pectin subunit composition can change during isolation from plants, storage, and processing of plant material. At present, pectin is thought to consist mainly of Doalacturonic acid (GalA) units, joined in chains by means of a-(1-4) glycosidic linkage. These uronic acids have carboxyl groups, which are naturally present as methyl esters and others which are commercially treated with ammonia to produce carboxamide groups. Units range in number from a few hundred to about thousand saccharides in a chainlike configuration which corresponds to average molecular weights from about fifty thousand to one lack fifty thousand Dalton. As the literature reports, into pectin backbone (made up of glycosides), galacturonic acid is replaced by (1-2)-linked L-rhamnose, at some distinguishing areas. From the rhamnose residues, side chains of various neutral sugars have been discovered to branch off. This type of pectin is termed as rhamnogalacturonan Here, up to every twenty fifth galacturonic acid in the main chain is replaced with rhamnose. The neutral sugars found in a pectin molecule are mainly D-galactose, L-arabinose and D-xylose, whose types and proportions vary with the origin of pectin. The X-ray fibre diffraction studies have reported that the galacturonan segments in the molecule of sodium pectate form helixes with three subunits per turn. The conformation of Galacturonic . acid units as determined by NMR spectroscopy and referred from literatures is 4C19. Calculations indicate that the helix is probably right-handed. It was indicated

Start Your Own Industry

sodium and calcium pectates, pectic acids, and pectinic acids show the same helix structure, but the ways in which these helixes were arranged relative to each other in the crystals differ to various degrees. It has been suggested that helical pectinic acid molecules pack in a parallel arrangement, whereas the pectates pack as corrugated sheets of antiparallel helixes.

COST ESTIMATION

 Plant Capacity
 1 MT/Day

 land & Building (1500 Sq.mt)
 Rs. 1.34 Cr.

 Plant & Machinery
 Rs. 91.75 Lacs

 W.C. for 2 Months
 Rs. 54.46 Lacs

 Total Capital Investment
 Rs. 292 Cr.

 Rate of Return
 56%

 Break Even Point
 37%

SANDING SEALER, LACQUER, PU WOOD COATING & VARNISH MANUFACTURING WITH FORMULAE [3294]

Sanding sealer is a liquid coat that seals wood and prevents the surface from absorbing varnish. It is a hard first coat that seals without obscuring the grain of the wood. It helps woodworkers achieve a smooth, even finish on a wood furniture. By design, sanding sealer serves as a "sandable" sealer, which means it can easily be sanded after application without impacting its effectiveness on the wood Sanding sealer is typically very thin, and dries very quickly to condition the wood in order to allow for less lean time. By applying sanding sealer during the finishing process, woodworkers minimize rough textures and create a smooth finish. Sanding sealers are used to eliminate stains. It can be applied over wood stain or bare wood, depending on the desired appearance, but before any protective coating or finish. This stains include those from water and fire damage. The sealer is then applied over the entire surface using a brush or foam pad after the stain is dried. The sealer must then be allowed to dry completely before proceeding to sanding. The surface is then sanded using a sanding paper before subsequent coats are applied. Sealers may be transparent and sometimes act as primers. Some sealers are designed to be left uncoated and thus can also be used as a varnish however this is not recommended. Sealers are absorbed quickly by spongy woods and this can prevent the formation of a film on the wood, leading to an effective seal. Sanding sealers contains zinc stearate, which helps it seal soft woods quickly and makes the wood easier to sand. However, if a lacquer finish is intended to be used above the sanding sealer, more than one or two coats should not be applied as a buildup of sealer can cause the lacquer to chip. In the current market, most

sanding sealers which have good drying capability have not been able to meet users requirements, prompting the present research study to attempt to calibrate the different qualities of the various available products, to produce sanding sealer of low drving time and also identify the raw materials that could be combined to obtain optimal sanding sealer formulation that would compete with already existing ones. The modern wax based polishes were first introduced as wax solvent paster in the late nineteenth century up till then floors, furniture and other surfaces were treated by a variety of methods such as scrubbing oiling sanding, varnishing and wood polishing. Waxes such as bees wax had been used long before this for treating wooden surfaces but these had to be labourising applied by rubbering with a block of the material concerned later paster of bees wax is turpentine or emulsions of wax in soda solutions were used but these again required the expenditure or vasts amounts of time and energy to achieve a rates factory surfaces gloss. From today new manufacturing techniques and the inclusion of additives such as silicone are continually being experimented with to improve the finished product. Although a number of special wax polished have developed for application to specific surfaces such as footwear motor cars. furniture and floors, two principal types of polish can be distinguished. There are other process in which the wax base is dissolved in a non-aqueous solvent (Paste polished) and those in which the wax is in the form of an aqueous emulsion (liquid polish). In both cases the waxes to be used are broken up i.e. crushes in crushing machine and then melted in steam or electrically heated pans COST ESTIMATION

Plant Capacity	2 Ton/Day	
Land & Building (1500 Sq.mt)	Rs. 1.73 Cr.	
Plant & Machinery	Rs. 54 Lacs	
W.C. for 2 Months	Rs. 1.52 Cr.	
Total Capital Investment	Rs. 3.86 Cr.	
Rate of Return	28%	
Break Even Point	51%	
*******	*********	
SOFT DRINKS MANUFACTURING		
[3295]		
Cold drinks are defined as an	v non-alcohol	

beverages containing syrup essences or fruit concentrates that are mixed with water or carbonated water. Cold drink is a most popular product extensively used during summer, in winter and other seasons also. Cold drink is liked by most of the people especially liked by kids and younger generation. At is a thirst quench, a hygienic but found drink. It is a ironical that the Cold drink industry represent the largest segment of the food industry in the country questionable food value. Cold drinks are

today being promoted as refreshing drinks. The ingredients those go into production of a Cold drink are mainly required concentrates, like sugar, phosphoric acid and carbon dioxide. Cold drink concentrates manufacturing unit is very simple and involve only mixing of various ingredients. Some manufacturers produce juice powder as well as Cold drink concentrates but this involves huge investment. Although, the integrated unit is covered under small scale still it depends upon the individual investment capacity. COST ESTIMATION

Plant Capacity	57600 Bottles/Day
land & Building (30000	Sq.mt) Rs. 3 Cr.
Plant & Machinery	Rs. 2.50 Cr.
W.C. for 1 Month	Rs. 1.57 Cr.
Total Capital Investment	t Rs. 7.32 Cr.
Rate of Return	16%
Break Even Point	63%

LEMON GRASS OIL PRODUCTION [3296]

Oil of lemongrass is one of the most important essential oils. Large quantities are used for the extraction of citral the chief constitument of the oil. Citral is the starting material for the preparation of the important ionone's (a series of armatics with a powerful violet odor). Natural essential oils are volatile, fragrant and pleasant tasting oils obtained from leaves, roots, flowers and fruits. They have wide applications in pharmaceutical, foods, perfumery and cosmetics. A variety of Philippine plants have a high content of essential oils that are feasible for commercial production. These plants mature fast, requiring little maintenance and grow in almost all parts of the archipelago. The extraction of oil from these varieties poses no special problems and the end product is marketable both locally and abroad. Lemongrass, commonly referred to as "tanglad", is an excellent source of essential oil. It grows abundantly in the Philippines and can be cultivated commercially. The characteristic aroma of lemongrass is ascribed to citral, which is the chief constituent of lemongrass oil. Citral is the starting material for the manufacture of ionones and is also used in the preparation of food flavors, cosmetics and perfumes. The fresh lemon-like odor of citronella oil is in alcohols and aldehydes rich (predominantly geranoil, citronellal and hydroxycitronellal) COST ESTIMATION

Plant Capacity	1000 Kgs./Day
land & Building (3000 Sq.mt) Rs. 1.09 Cr.
Plant & Machinery	Rs. 2.58 Cr.
W.C. for 1 Month	Rs. 9.07 Cr.
Total Capital Investment	Rs. 12.88 Cr.
Rate of Return	36%
Break Even Point	42%
*****	*****

Start Your Own Industry

LEMONGRASS CULTIVATION [3297]

Lemongrass is a tropical perennial plant which yields aromatic oil. The name lemongrass is derived from the typical lemon-like odour of the essential oil present in the shoot. The herb originated in Asia and Australia. Lemongrass was one of the herbs to travel along the spice route from Asia to Europe. Lemongrass oil of commerce is popularly known as Cochin oil in the world trade, since 90% of it is shipped from Cochin port. The state of Kerala in India had the monopoly in the production and export of lemongrass oil. The annual world production of lemongrass oil is around 1000 t from an area of 16000 ha. In India, it is cultivated in an area of 4000 ha and the annual production is around 250 t. The crop is extensively cultivated in the poor, marginal and waste lands and also along the bunds as live mulch. The well ramified root system of the plant helps in soil and water conservation. East Indian LEMONGRASS / Cochin grass / Malabar grass Lemongrass is a tropical perennial plant which yields aromatic oil on steam distillation of the herbage. The oil has a typical lemon-like odour. The crop is suitable for marginal and waste lands and also along the bunds as live mulch. India contributes to about 85% of total world production. COST ESTIMATION Plant Capacity CULTIVATION IN 50 ACRES land & Building (50 Acres) Rs. 54 Lacs Rs. 50 Lacs Plant & Machinerv Rs. 22.10 Lacs W.C. for 3 Months

W.C. for 3 Months Rs. 22.10 Lacs Total Capital Investment Rs. 1.41 Cr Rate of Return 16% Break Even Point 67%

BIODEGRADABLE CUPS AND PLATES FROM SUGARCANE BAGASSE, WOOD PULP OR BAMBOO PULP [3299]

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. This is 100% **BIODEGRADABLE & COMPOSTABLE** tableware, which is widely used in various functions, restaurants, festivals as ECC FRIENDLY single time (Use & throw) crockery, it's produce by Plant extract of residue like Sugarcane Bagasse (SCB) etc., which is Proven Environment friendly 100% Biodegradable and Compostable and not harmful for food, human, soil and Nature. This is becoming more popular due to environment awareness, climate change & NGT/State govt. bans on recyclable plastics.

COSTESTIMAT	ION
Plant Capacity	850 Kgs/Day
land & Building (2000 Sq.Mt)	Rs. 1.12 Cr
Plant & Machinery	Rs. 2 Cr
W.C. for 2 Months	Rs. 37.95 Lacs
Total Capital Investment	Rs. 3.58 Cr
Rate of Return	44%
Break Even Point	44%
*****	******

DRY MORTAR MIX [3300]

Dry Mortar Mix is gaining eminence in modern times owing to its versatile superiority in regard to characteristics over the conventional in-situ mortars viz. better performance easy to uses easy to set and the quality of leaving no crakes and voiles. Besides it has preferably better and wider field of application as patching & repairing materials for plasting purposes and other construction works viz. internal/ external plastering masonry work etc. It is a very good substitute for conventional in-situ mortars. Various types of Ready mix dry mortar comprise internal plaster mortar, external plaster mortar masonry mortar, quick setting mortar high strength mortar repair mortar self leaving flooring mortar pre-mix RCC mortar etc. One specific advantage regarding manufacture of these ready mix dry mortar is that they can be manufactured in a single unit by variation in composition proportions as per different formulations. Ready mix dry mortar is particularly useful on congested siles or in road construction where little space for the mixing plant and for extensive aggregate stockpile is available but the greatest single advantage of ready mix dry mortar is that it may be made under better conditions of control than are normally possible on any large construction sites. These consist of finely ground refractory grain and plasticizers that can be thinly spread on brick during construction. For air - setting mortars sodium silicates or phosphates provide strength at room temperature. Heat setting mortars contain no additives and develop strength only when a ceramic bond is formed at high temperatures. A refractory composition containing chemical agents that sure hardening at temperatures below that of ceramic bonding but above room temperature sometimes called "aiı hardening". A refractory mortar material which requires relatively high temperature for the development of a bond. Masonry cements are cements for use in mortars for masonry construction

COST ESTIMATION

 Plant Capacity
 50 Ton/Day

 land & Building (4000 Sq.Mt) Rs. 2.65 Cr.

 Plant & Machinery
 Rs. 72 Lacs

 W.C. for 2 Months
 Rs. 1.56 Cr.

 Total Capital Investment
 Rs. 6 Cr.

 Rate of Return
 79%

 Break Even Point
 28%

ASAFOETIDA (COMPOUNDED)-HING [3301]

Asafoetida is the dried aromatic gum-resin exuded from the living rhizome, rootstock or taproot of varied plant species of genus Ferula. Local names: Hing, Asafetida, Ingo, Inguva, Plant Sources; Ferula asafoetida and allied species (Ferula foetida and Ferula narthex). Family Umbelliferae Distribution: The perennial asafoetida plants has several varieties and are native to the region between the Mediterranean region to Central Asia, especially Iran and Afghanistan. The other species, known botanically as Ferula northex, grow abundantly in Kashmir, Western Tibet and Afghanistan. Major producing countries: Afghanistan, Iran, Turkistan. Ferula gum-resins are imported to India, mainly from Iran and Afghanistan. A part of the imported gum resin is reexported to various countries after some processing and value addition. Method of harvesting/tapping: The gum resin is obtained from incisions in the roots and rhizomes of the plants. Usually plants of sour to five years old develop very thick and fleshy, carrot shaped roots. The upper part of the root is laid bare and the stem is cut close to the crown. The exposed surface is covered by a dome shaped structure made of twigs and earth. A milky juice exudes from the cut surface which soon coagulates when exposed to air. After some days, the exudate gum-resin is scraped off and a fresh slice of the root is cut. Period of harvesting/collection: Tapping is usually done in March and April, just before the plants flower. The milk juice obtained from the root becomes a brown resin-like mass after drying. Asafoetida is processed and marketed either as lumps or in powdered form. The lump asafoetida is the most common form of pure asafoetida. The trading form is either the pure resin or so-called "compounded asafoetida" which is a fine powder consisting to more than 50% of rice flour and gum arabic to prevent lumping. The advantage of the compounded sorin is that is is easier to dose. The gum-resin is also steam distilled to obtain the essential oil known as Oil of Asafoetida. Asafoetida of commerce is available in three forms viz..`tears'.`mass'.and paste'.The tears' constituting the purest form of the resin, are rounded or flattended, 5-30 mm in diameter and greyish or dull yellow in colour. The two types are recognised according to whether the tears retain the original pale colour for years or gradually become dark or reddish brown. Mass asafoetida is the common commercial form. It consists of tears agglutinated into a more or less uniform mass usually mixed with fragments of root, earth etc. The paste form also contains extraneous matter.

Top Industries to Start

COST ESTIMATION

	- · ·
Plant Capacity	200 Kgs/Day
Land & Building (2000 Sq.Mt) Rented
Plant & Machinery	Rs. 7.40 Lacs
W.C. for 1 Month	Rs. 1.31 Cr
Total Capital Investment	Rs. 1.39 Cr
Rate of Return	70%
Break Even Point	26%
*****	*******

BRUSHLESS D.C. MOTOR [3302]

The motor or an electrical motor is a device that has brought about one of the biggest advancements in the fields of engineering and technology ever since the invention of electricity. A motor is nothing but an electro-mechanical device that converts electrical energy to mechanical energy Its because of motors, life is what it is today in the 21st century. Without motor we had still been living in Sir Thomas Edison's Era where the only purpose of electricity would have been to glow bulbs. There are different types of motor have been developed for different specific purposes. In simple words we can say a device that produces rotational force is a motor. The very basic principal of functioning of an electrical motor lies on the fact that force is experienced in the direction perpendicular to magnetic field and the current, when field and current are made to interact with each other. Ever since the invention of motors, a lot of advancements has taken place in this field of engineering and it has become a subject of extreme importance for modern engineers. This particular webpage takes into consideration, the above mentioned fact and provides a detailed description on all major electrical motors and motoring parts being used in the present era.

COST ESTIMATION

Plant Capacity	666 Nos/Day
Land & Building (4000 Sq.Mt)	Rs. 5.58 C
Plant & Machinery	Rs. 3.94 C
W.C. for 2 Months	Rs. 10.88 C
Total Capital Investment	Rs. 20.87 C
Rate of Return	87%
Break Even Point	22%
*****	*****

FOOD GRADE PHOSPHORIC ACID BY THERMAL PROCESS [3303]

Phosphoric acid is an important intermediate chemical product. It is used mainly by the fertilizer industry. In 1980 the worldwide production capacity for phosphoric acid vielded about 33 million tons of P2O5 equivalents. Pure 100% phosphoric acid is a white crystalline solid (monoclinic) that melts at 38.85oC to a syrupy liquid which has a strong tendency to super cool. In dilute solutions, phosphoric acid has a pleasingly sour taste which is similar to but distinguishable from that citric, tartaric, lactic and acetic acids Rock phosphate is the major and essential raw material required for production as phosphoric acid by any route. Usually,

when considering a phosphate rock as a potential raw material, the first approach is to analyze its chemical composition i.e. the P2O5 content and its impurities. Phosphoric acid (H3PO4) is produced by 2 commercial methods: wet process and thermal process. Wet process phosphoric acid is used in fertilizer production. Thermal process phosphoric acid is of a much higher purity and is used in the manufacture of high grade chemicals, pharmaceuticals, detergents, food products, beverages, and other nonfertilizer products. There are two basic methods in commercial use for the production of phosphoric acid - the wet process and the furnace process. In the electric furnace process elemental phosphorous is produced by the electrothermic reduction of phosphate rock with carbon (coke). The silica added to the furnace charge behaves as a strong acid at the high temperatures (about 1500°C) employed in furnace operations and combines with the calcium constituent of the phosphate rock to form calcium silicate. The overall reaction, neglecting carbonates, fluorides, and other nonconstituents, may phosphatic be expressed as follows: In the manufacture of furnace phosphoric acid, the condensed elemental phosphorus is burned in air. The phosphorus oxide vapor (P.01o) formed reacts with water to produce phosphoric acid. The phosphoric acid thus produced has very small amounts of impurities and the major industrial markets for this acid are in the manufacture of sodium phosphates and tetra potassium pyrophosphate for use in detergents and calcium phosphates for use as an animal feed supplement and in dentifrices medicinal, glass, food, and plaster stabilizers.

COST ESTIMATION

Plant Capacity	5 Ton/Day
Land & Building (3000 Sq.Mt)	Rs. 3.97 C
Plant & Machinery	Rs. 3 C
W.C. for 2 Months	Rs. 1.16 C
Total Capital Investment	Rs. 8.33 C
Rate of Return	17%
Break Even Point	68%
*****	********

JAGGERY AUTOMATIC PLANT [3304]

Jaggery or gur is a specific type of sugar popular in India. It is normally manufactured from either sugar cane or date palms, but recent trends in its manufacture have resulted in jaggery made from the sap of coconut and sago palms. While jaggery is useful in cooking, it is also an ancient part of Ayurvedic medicine and has spiritual significance in India too. This type of sugar is considered unrefined and is produced by boiling raw sugar cane or palm juice in iron pans. It is then formed into blocks. Because it does not go through additional processing, it does retain some of the natural vitamins

and minerals of the ingredients used, though boiling the juice does deplete some of these. Many people do consider jaggery healthier than more refined sugar since it is less stripped of natural nutrients. In traditional Indian medicine, called Ayurveda, this sugar has several purposes. It may be prescribed for use for people with sore throats. It has some use in the treatment of bronchial or lung infections, and in fact in research has shown to possibly offset some of the lung damage caused by silicosis, a disease of the lungs that occurs when people are exposed for a long time to silica powder. When sugar from sugarcane was introduced cannot be definitely stated, but brown sugar or gur (Jaggery) was the first known form of sugar manufactured from sugarcane as well as from wild date palm (phonnix sulvestris). palmyra palm (Borassus flapellifar). toddy palm (Carvota urens) and other palms that contain 12-14% sugar in their sap tapped for the purpose. Fermented toddy sap yields a beverage commonly used in India. An about one lakh tonne of brown sugar or gur is still produced from palm sap in India. Gur has always been and is still being recommended in Ayurvedic Medicinal system for nutritive quality and as a much safer form of sugar than pure white (centrifugal) sugar for regular consumption. In the Indian subcontinent the gur is commonly used in preference to molasses free white sugar for many sweet prepartions because of its specific taste. In fact, the findings of a British scientist. John Yadkin, have shown that heavy consumption of highly clarified white sugar or pure sucrose obtained from the modern sugar mills is largely responsible for hyperinsinglism and coronary heat diseases in human beings. Gur is safe from this aspect. Gur (Jaggery) production in India is more than 1.5 times of that of white sugar production (a decade back it was double). Nearly half of the total cane production is utilised for gur produced by open pan method; its production by vacuum process has not been yet successful. Gur production is 10-12% from cane in open pan and about 15% in vacuum process. Even at higher price than white sugar the gur (that contains 70-75% sucrose, 14-16% invert sugars, 5% moisture, and 5% other ash creating material) is still preferred for many special dishes and also in daily use. Besides Indian many countries of Central Americal (Costa Rica, Mexico), sough Americal (Brazil, Columbia) and Asia (including Pakistan, Indonesia, Japan) use this kind of non-crystalline sugar called variously (Repodura, Chancaca, Pancoa, Mascasvado, Chancaca, Pancoa, Popiton, Jaggery, etc.) Asian countries are the largest consumers (80-) of these forms of sugar. Gur (Gul. gud. vellum.

Best Industries to Start and Grow

bella), is the product obtained on concentrating sugarcane juice with or without prior purification, into a solid or semi-solid state. It is produced almost throughout India and forms an important item of the Indian diet. The manufacture of our holds a very important place in the rural economy of the country. Uttar Pradesh accounts for c. 45 percent of the total production of gur while Punjab and Haryana account for some 10 percent. The States of Maharashtra, Andhra Pradesh, Mysore and Tamil Nadu together account for some 30 percent of the total production of gur in the country.

COST ESTIMATION

Plant Capacity	(300 TCE
Land & Building (12000	Sq.Mt) Rs. 6.02 0
Plant & Machinery	Rs. 8.85 (
W.C. for 2 Months	Rs. 2.45 (
Total Capital Investment	Rs. 17.60 0
Rate of Return	189
Break Even Point	619
*****	*****

ELECTRIC BUS BUILDING PLANT [3305]

Over the past decade, India's cities have been witnessing an increasing trend in motorization with deteriorating air quality, and there have been calls to promote public transport as a way out of this gridlock. It is in this context that electric buses can play a positive role, as there are several benefits associated with the shift from conventional diesel buses to electric buses in terms of reduction in local pollution, noise, and fuel consumption. In spite of the many positive benefits related to the electric bus technology, certain challenges remain. Primary among these are costs and safety concerns. Currently, the Electric Vehicle (EV) technology is associated with significant capital costs. with the battery component constituting about half of the total manufacturing costs. Safety is yet another important parameter, and the biggest concern is that of a fire hazard. However, with a good Battery Management System (BMS), rigorous implementation of standard operating procedures, and customization of bus fleet, both safety and cost aspects can be effectively addressed. Electric buses have already been deployed on a large scale globally, and the technology is mature and evolving continuously.

COST ESTIMATION

Plant Capacity	24 Nos/Day	
Land (20000 Sq.Mt)	Rs.10.48 Cr	
Plant & Machinery	Rs. 5.10 Cr	
W.C. for 2 Months	Rs. 67.66 Cr	
Total Capital Investment	Rs. 83.93 Cr	
Rate of Return	56%	
Break Even Point	35%	
*****	*****	

HDPE DRUMS MANUFACTURING PLANT [3306]

HDPE Drums & Barrels are the important Packaging Material for packaging of Chemicals, solvents Pharmaceuticals Pesticide etc. The use of barrels as storage containers is not a new concept. Originally, barrels were created from wooden planks and metal bands. These containers were excellent because they didn't leak when filled with liquid and required no glue or nails to build. The iconic wooden barrel is still used to this day in wine and whiskey making. In the early 1900s, wooden barrels gave way to a new more durable and easily machined material. Steel Steel barrels were stronger, safer for use in transport and able to be manufactured on an assembly line with much less labor than wooden barrels. The steel drum is still widely used for liquid storage and transportation to this day. More advanced technology and manufacturing practices in the late 1960s allowed for another iteration of the barrel to come about: the plastic barrel. Plastic barrels are made from high density, high molecular weight polyethylene (HDPE) Polyethylene is an excellent material because it is inert and resistant to high or low pH contents. As foodies know, the acidity of food products can be high or low. Some materials, including food products, are caustic and can even break down steel. Have you ever left tinfoil over tomato sauce for an extended period of time? The undesirable result is a case in point: the sauce eats right through metal.The use of high densitv polyethylene (HDPE) as opposed to low density (LDPE) allowed for barrels to be created completely from polyethylene, as opposed to using a plastic liner in a steel drum. Plastic drums are manufactured through a process called blow molding. This process allows for various shapes to be created with no seams on the inside. Barrels are still molded in a cylindrical shape to allow for rolling and handling using the same tools as a steel drum. The round shape lacks weak corners (corners are vulnerable to cracking with impact and exposure). The added benefit of a seamless design is that it prevents buildup of bacteria in crevices. Polvethylene barrels are made in various colors. Some barrels are created in a natural semi-transparent color to allow for a filler to see the levels of material in the barrels However these are not UV resistant and are not suitable for outdoor storage. Black drums can be problematic as black pigment is often created from mixing various colors in a recycling process and there is no certainty as to what the previous plastic material was used for. Black barrels are generally not considered food-grade. Most polyethylene drums are created using a blue pigment, and this has become the industry standard for food storage. The blue pigment in polyethylene drums has a

Hi-Tech Projects

Date of Posting 24th to 30th of Every Month Weight of Magazine- Upto 48 Gram) An Industrial Monthly Magazine on Hi-Tech Projects & developed and underdeveloping Technologies with lucrative Project opportunities Editor Sudhir Gupta

Asst. Editor

Ankur Gupta SUBSCRIPTION RATES

FOR INDIA Single Copy Rs. 20/-One Year Rs. 225/-Three Years Rs. 650/-

Add Rs. 100/- for outstation cheques Please make the Draft/Cheque in favour of "Engineers India Research

Institute, Delhi" FOR OVERSEAS

Single Copy US\$ 10/-One Year US\$ 120/-

CAUTION

Project Reports/Profiles provided in this issue had been prepared on datas available at the time of preparing these reports. Entrepreneurs/Industrialists are requested to please update the data before venturing into any project mentioned herein.



lENGINEERS INDIA RESEARCH INSTITUT(449 Nai Sarak, Main Road, Delhi - 110006 (INDIA) Ph : 9111- 43658117, 23918117, 45120361, 9811437895, 9289151047 E-Mail : eiri@eiriindia.org,eiriprojects@gmail.com Website: www.eiriindia.org www.eiri.in Patrons may also directly transfer the fund for Project Reports & Books in following EIRI current accounts:

HDFC BANK - 05532020001279 (RTGS/NEFT/IFSC CODE: HDFC0001981)

ICICI BANK - 038705000994 (RTGS/NEFT/IFSC CODE: ICIC0000387)

AXIS Bank Ltd. - 054010200006248 (RTGS/NEFT/IFSC CODE:UTIB0000054)

UNION BAK OF INDIA -307201010015149 RTGS/NEFT/IFSC CODE: UBIN0530727)

STATE BANK OF INDIA -30408535340 (RTGS/NEFT/IFSC CODE: SBIN0001273)

AND SMS US ON PH. +91 9811437895

Start Your Own Industry season the hull forms from hard materials

higher UV light resistance than natural and does not show dirt or residue as readily Blue is the standard food-grade drum. One of the often forgotten and perhaps most important aspects of polyethylene is how easy it is to recycle and reuse the containers. The inertness and impermeability make them a perfect candidate for reuse or "up cycling.

Plant Capacity	20 MT/Day
Land & Building (4000 Sq.Mt)	Rs. 2.21 Cr
Plant & Machinery	Rs. 5.38 Cr
W.C. for 1 Month	Rs. 4.24 Cr
Total Capital Investment	Rs. 11.94 Ci
Rate of Return	27%
Break Even Point	50%
*****	*******

PRECIPITATED SILICA FROM RICE HUSK ASH [3307]

Rice husk or paddy husk - an agricultural residue is available abundantly in rice producing countries. India alone produces approximately 12 million tons of rice husk annually. Rice husk is generally not advocated as cattle feed because of low cellulose and other sugar contents in it. Furfural and rice bran oil are extracted from rice husk. Rice husk is used by industries as fuel in boilers and for power generation. Rick husk has a high ash content varving from 18-20%. Silica is the major constituent of rice husk ash. High silica (SiO2) content in rice husk ash is economically feasible to extract silica, which has wide market. Rice is the seed of the monocot plants Oryza sativa (Asian rice) or Oryza glaberrima (African rice). It is normally grown as an annual plant, although in tropical areas it can survive as a perennial and can produce aratoon crop for up to 30 years. Since a large portion of maize crops are grown for purposes other than human consumption, rice is the most important grain with regard to human nutrition and caloric intake, providing more than one fifth of the calories consumed worldwide by the human species. The rice plant can grow to 1-1.8 m (3.3-5.9 ft) tall, occasionally more depending on the variety and soil fertility. It has long, slender leaves 50-100 cm (20-39 in) long and 2-2.5 cm (0.79-0.98 in) broad. The small wind-pollinated flowers are produced in a branched arching to pendulous inflorescence 30-50 cm (12-20 in) long. The edible seed is a grain (caryopsis) 5-12 mm (0.20-0.47 in) long and 2-3 mm (0.079-0.12 in) thick. Rice is the staple food of over half the world's population. It is the predominant dietary energy source for 17 countries in Asia and the Pacific, 9 countries in North and South America and 8 countries in Africa. Rice provides 20% of the world's dietary energy supply, while wheat supplies 19% and maize 5%. Rice husks are the hard protecting covering of grains of rice. Rice hulls are the coating for the seeds, or grains, of the rice plant. To protect the seed during the growing

including opaline silica and lignin. One practice, started in the seventeenth century, to separate the rice from hulls, it to put the whole rice into a pan and throw it into the air while the wind blows. The hulls are blown away while the rice fell back into the pan. This happens because the hull isn't nearly as dense as the rice. These steps are known as winnowing. Later pestles and a simple machine called a rice pounder were developed to remove hulls. In 1885 the modern rice hulling machine was invented in Brazil. During the milling processes, the hulls are removed from the raw grain to reveal whole brown rice, which may then sometimes be milled further to remove the bran layer, resulting in white rice. Rice husk is a by-product of the rice milling industry. It is a unique crop residue with uniform size and high content of ash (14-25%). The silica content of the rice husk ash (RHA) can be as high as 90-98% . This husk can be used as a fertilizer in agriculture or as an additive for cement and concrete fabrication. Due to its high silicon content, rice husk has become a source for preparation of elementary silicon and a number of silicon compounds especially silica silicon carbide and silicon nitride . India is a major producer of rice and finding ways to put the husk to use is imminent. The high silica content in the rice husk ash has attracted interest in discovering ways to use it commercially. Although silica occurs as a component of cells or cell walls in virtually all arial parts of the rice plant, it is most abundant in the husk. Owing to their small diameter, many technological applications, such as thermal insulators, composite fillers, etc., use ultrafine silica powders .We have investigated the possibility of producing high purity silicon from rice husk by purifying the rice husk silica followed by pelletizing and reduction in a modified electric arc furnace. The pelletizing was carried using carbon black as a reductant and sucrose as a binder COST ESTIMATION Plant Capacity 200 MT./Day Rs. 19.91 Cr

Land & Building (10 Acres) Plant & Machinerv Rs. 75.10 Cr W.C. for 1 Month Rs. 27.99 Cr Total Capital Investment Rs. 123.57 Cr Rate of Return 20% Break Even Point 60% *****

RAMMING MASS [3308]

Sand is a modification of hand-moulding techniques. The shape is built up gradually by placing successive layers of material in a mould and tamping each layer with pneumatic tools as it is added. Remaining is used to form intricate shapes and ware that it for large to be formed by other methods. Silica ramming mass is the product of silica. Quartz. aluminium oxide. calcium oxide, but there is no iron in the mass. Ramming mass is used for to give

the force into any body or other material etc. Silicon oxide (SiO2), or silica, is ar oxide of silicon commonly found in natural waters. Silica, although quite insoluble in natural water, may be fairly readily dissolved or occur as finely divided colloidal matter originating from silicate rocks. Waters passing through volcanic deposits may have silica concentrations on the order of 100 ppm or higher, although most natural waters have concentrations less tan 40 ppm. From the stand point of portability and general water quality for domestic and municipal Silica is not a significant uses. constituent. It is however, undesirable in many industrial supplier, especially in boiler feed water. It forms very hard deposits on boiler tubes and, at high concentrations, tends to carry over with the steam and deposit on the turbine blading. As the operating pressure of the boiler increase the allowable silica concentration in the food water decreases Silica is generally reported as the oxide (SiO2) in concentration units. Since it is not in ionic form, it should not be reported in equivalent weight unit.

COST ESTIMATION Plant Canacity 300 Ton/Day

Land & Building (4 Acres)	Rs. 2 Cr
Plant & Machinery	Rs. 1.89 Cr
W.C. for 1 Month	Rs. 1.39 Cr
Total Capital Investment	Rs. 5.62 Cr
Rate of Return	32%
Break Even Point	42%

FISHMEAL AND FISH-OIL FACTORY OF CAPACITY TO HANDLE 100 TON OF RAW MATERIAL IN A DAY [3309]

Fishmeal is the crude flour obtained after milling and drying fish or fish parts, while fish oil is usually a clear brown/yellow liquid obtained through the pressing of the cooked fish. Many different species are used for fishmeal and fish oil production with oily fish, especially anchoveta, the main groups of species utilised. A significant, but declining, proportion of world fisheries production is processed into fishmeal and fish oil thereby contributing indirectly to human consumption when they are used as feed in aquaculture and livestock raising. Fishmeal (FM) and fish oil (FO) are produced mainly from sustainably managed stocks of fish for which there is little or no demand for human consumption. Non official estimates of the contribution of fish by-products and processing waste, rather than whole fish to the total volume of FM and FO produced indicate it is now about 25-35% and this figure is expected to grow. These two fish products are manufactured in EU approved dedicated manufacturing plant and through a safety monitored supply chain. FM is never produced in the same factories as meat and bone meal. There

Best Industries to Start and Grow

are three different products sold as meal: High quality - usually for small-scale aquaculture units (trout farms) or marine species. • LT (low temperature) meal - is highly digestible and used in salmon and piglet production. • Prime FAQ (fair average quality) - lower protein content feed ingredient for pigs and poultry.

COST ESTIMATION

Land & Building (6000 Sq.Mt)	Rs. 2.38 Ci
Plant & Machinery	Rs. 3.82 Ci
W.C. for 1 Month	Rs. 14.80 Ci
Total Capital Investment	Rs. 21.95 C
Rate of Return	48%
Break Even Point	35%

PLASTIC MATS PRODUCTION

FROM POLYPROPYLENE [3310] Polypropylene (PP), also known as polypropene, is a thermoplastic polymer used in a wide variety of applications including packaging and labeling, textiles (e.g., ropes, thermal underwear and carpets). Polypropylene has a relatively slippery "low energy surface" that means that many common glues will not form adequate joints. Joining of polypropylene is often done using welding processes. In 2013, the global market for polypropylene was about 55 million tones. Polypropylene is the world's second-most widely produced synthetic plastic, after polyethylene Polypropylene is in many aspects similar to polyethylene, especially in solution behaviour and electrical properties. The additionally present methyl group improves mechanical properties and thermal resistance, while the chemical resistance decreases .: The properties of polypropylene depend on the molecular weight and molecular weight distribution, crystallinity, type and proportion of comonomer (if used) and the isotacticity. In isotactic polypropylene, for example, the CH3 groups are oriented on one side of the carbon backbone. This creates a greater degree of crystallinity and results in a stiffer material that is more resistant to creep than both atactic polypropylene and polyethylene. Mat and matting industry is well established in India. Previously it was made from vegetable origin like coconut fibers, jute and cotton fibers etc. Woven fabrics were among the earliest bases used for laminating. They provide a stronger and more impact resistant product. In woven fabrics the fibrous structure is stronger because the individual fibers are longer by virtue of spinning into yarn. Continuous filament yarns of plastics are much tougher than conventional yarns of vegetable origin. The continuous filament fabrics produce tough structure that are often difficult to bond because the surface of the extruded filament is smooth the individual filaments are in maximum geometrical close packing, and there are no ends to the filaments to provide mechanical

anchoring. After the availability of PP and HDPE as commercial plastic raw materials, the plastic mats have been replacing the conventional mats. Plastic mats are made in a large variety of patterns and designs to provide attractive and damp-proof floor covering. These are preferred over jute or coir mats due to cheap, light, durable and attractive designs. Now - a - days plastic mats are woven with PP/HDPE varn or strapping's. The warp yarns are held in two frames which alternately go up and down and a weft is passed between the warp every time they move. The matting is dove plain or stripped according as the warp is of one colour or of different colours. It may be woven in various attractive designs. The weaving pattern of the fabric controls the physical nature of the laminate. very common weave is a square pattern in which each warp yarn passes above and below each alternate fill varn during weaving This gives a structure with maximum crimp. In drills and twills each yarn still has considerable crimp as it passes from one side of the fabric to the other. Such weaves exhibit uniform properties in the crosswise and lengthwise directions but are relatively weak owing to the great crimp in each varn.

COST ESTIMATION

Plant Capacity	600 Nos/Da
Land & Building (700 Sq.Mt)	Rs. 1.1 C
Plant & Machinery	Rs. 50 Lac
W.C. for 1 Month	Rs. 23.17 Lac
Total Capital Investment	Rs. 1.80 C
Rate of Return	25%
Break Even Point	35%

RESORTS WITH COTTAGES, YOGACENTRE, NATUROPATHY & AYURVEDIC CENTRE, POTTERY WARE, GLASS MOULDING, CARPENTRY WORKSHOP AND CANDLES ETC. [3311]

Resort Hotel is a is a full service lodging facility, intended primarily for vacationers and usually located in places frequented for relaxation or recreation, such as beaches, seashores, scenic or historic areas, ski parks, spas. The difference to a 'simple' hotel lies in the range of services and amenities offered. A Resort Hotel typically includes entertainment and recreational activities. We can say that a Resort is a self-contained establishment. providing for most of a vacationer's needs while remaining on the premises (lodging, food, drink, sports, entertainment, shopping, etc.). The ownership can vary between timeshare, fractionally owned or operated by a single company. Some resorts can operate on a seasonal basis instead of all year-round. The benefits of booking a Resort Hotel are that the guest finds an all-around service within the premises. It is convenient for families, offering kids-club, evening entertaining

program, shopping etc. In cases the Resort is located far away from the city, the Resort provides all the infrastructure needed (it is a 'village' itself). Often a Resort is used as a wedding location (with a wedding planner on side, a photographer, a hairdresser and a beauty salon etc.). After all the world tourism is the largest single item of international trade today with the increase in education discretionary income and in leisure and paid holidays, travel This grown rapidly in recent years. Such magnitude of increase are accompanied by facilities for increased numbers view thus Holiday resorts become and this urreld becomes an integral part of tourism infrastructure of any country. As an expert rightly asserts, they are indeed foundations upon which this industry is built and yet there is probably no other business taken so much for granted or which appears to an outsider to be so easy to run as the resort or hotel business. The place which was usually for the let out to travelers was taken (known) as inn and the keeper, in accordance with the existing laws of the land, was obliged for providing shelter and food to those willing to pay price, Holiday resorts 10 to 15 rooms having spacious lobbies, restaurants serving different tastes of meals swimming pools and health club and comparatively a recent phenomenon. Today there are quit a good number of over 300 approved Holiday resorts and hotels comprising nearly 19,000 guest rooms. But the increase in rooms and other supplementary forms of accommodation such as motels youth hostels camp sanctuaries huts in resorts and has not kept pace with the demands. are pattern in which each warp yarn passes above and below each alternate fill yarn during weaving. This gives a structure with maximum crimp. In drills and twills each yarn still has considerable crimp as it passes from one side of the fabric to the other. Such weaves exhibit uniform properties in the crosswise and lengthwise directions but are relatively weak owing to the great crimp in each varn.

COST ESTIMATION

Capacity **RESORTS WITH COTTAGES** YOGA CENTRE

Land (10000 Sq.Mt)	Rs. 20.50 Cr
Plant & Machinery	Rs. 2 Cr
W.C. for 2 Months	Rs. 1.04 Cr
Total Capital Investment	Rs. 24.34 Ci
Rate of Return	19%
Break Even Point	57%
******	******

Deposit amount in EIRI Accounts in

AXIS BANK LTD. 054010200006248 (RTGS/NEFT/IFSC Code: UTIB0000054)

ICICI BANK LTD. 038705000994 (RTGS/NEFT/IFSC Code: ICIC0000387

Market Overview Cum Detailed Techno Economic Feasibility Reports

To get Loan/Finance from Banks/Finacial Institutes.

To set up your own Industry/Unit

• To have Detailed & Exhaustive Data on any Project.

Y THE .

 * EIRI Project Reports are prepared by highly qualified & experienced consultants & Market Research and Analysis supported by a panel of Experts and Computerised.
 * Data provided are reliable and uptodate collected from manufacturers/suppliers, plant already commissioned in India.

A complete List of Industrial Project Reports are given on www.eiribooksandprojectreports.com

•

EACH DETAILED PROJECT REPORT CONTAINS:

✓INTRODUCTION : Project Mix, Uses & Applications, Quality Control Measure & Their Introduction for Attaining Required Properties Economy & Productivity Competence.

MARKET OVERVIEW : Market Position, Installed Capacity Production, Anticipated Demand, Present Manufacturers, Statistics of Imports & Exports, Estimated Demand, Demand & Supply Gap (If available), LI/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]

◆LAND & BUILDING : Total Land Area Requirement with Rates, Covered Area Break-up with Estimated Costs of Construction

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.

EIRI Technocrats and Engineers have just prepared "MARKET OVERVIEW CUM DETAILED TECHNO ECONOMIC FEASIBILITY REPORTS" on following lucrative products which are most viable and profitable and having bright future scope

Formaldehyde, Urea Formaldehyde, Melamine Formaldehyde Powder, Phenol Formaldehyde Resin, Sodium Formaldehyde, Naphthalene Formaldehyde, Dye Fixing Agent, Formaldehyde Methanol Sort By:	Rubber and Rubber Products, Rubber Chemicals, Goods, Latex, Compounds and Industries, Natural Rubber, Extruded Rubber, Synthetic Rubber, Rubber for Automobile, Belt, Gloves, Tyre, Tire, Rubber Based Industries	Avail One Free Copy of HI-TECH PROJECTS Industrial Monthly Magazine by Email, Contact at: eiriprojects@gmail.com Eiritechnology@gmail.com belt conveyor belt	PROJECT REPORT
Sodium hydrosulfite through formaldehyde route cap-20 tpd Sodium lauryl sulphate and sodium lauryl ether sulphate Sodium polyacrylate dispersant for use in water based paint with dispersant for pigment Sodium sulphide Urea formaldehyde and melamine formaldehyde moulding powder Urea formaldehyde powder & melamine formaldehyde powder	Antifoaming/defoaming agent like antarol t-709 Automobile rubber parts Benzalkonium chloride Calcium aluminate Ethylene propylene diene monomer (epdm) rubber profiles Gloves/mitt/gage/gauntlet (knitted) Industrial rubber sheet Latex foam (rubber) products Manganese oxide and manganese sulphate Nitro cellulose (lacquer) Precipitated calcium carbonate Rubber & flat transmission	Rubber & plastic sheets, mats & flaps Rubber (and metal bonded) auto parts Rubber adhesive Rubber adhesive (all purpose) neoprene & isoprene based rubber moulding & lining of rubber sheeting Rubber adhesive for plywood Rubber auto gasket Rubber auto gasket Rubber balloon Rubber balls Rubber band Rubber beading for automobiles	EIRI is an expert Industrial Consultant working over 35 years and specialized to prepare all types of Detailed Project Reports based on clients requirements. Do Contact Today at: eiritechnology@gmail.com

Highly Profitable Projects for New Entrepreneurs			
EIKI MA	conomic Feas	ibility Report	s"
Rubber belting	Rubberised cloth	Thermoformed cups, plates	Natural sugar wax
Rubber caps (closures) for	Rubberised coir pu foam	& glass with hips sheet	Neem oil captive consumption in
pharmaceutical uses	composit mattresses	Thermoformed cups, plates	production of neem coated urea
Rubber chappel and rubber	Rubberised cork sheet	& glasses with hips sheet	Processing of datura
sheet	Rubberized plant for solid tyre	manufacturing	stramonium into hyosyamina &
Rubber compound for	Rubberized plant for solid	loughened glass	atromin
automobiles	tyres used for forklift and	Herbs, Ayurvedic and	Rose water
Rubber compound for toys	Chr. rubber ebeete and ebee	Herbal, Herbal Cosmetics	Tailot and barbal asan
(using plaster of paris)	sole manufacturing	Projects	Turmorio oil extraction from dry
Rubber conveyor belt	Sulphuric acid (I r and	Aloevera cultivation and	turmeric
Rubber cols and aprofis	a.r.grade)	processing	Vanila cultivation & extraction
Rubber eraser	Synthetic musk	Aloevera gel	Wet face freshner tissue
Rubber flooring	Synthetic rubber	Annatto seed colour	
Rubber gasket	Synthetic rubber adhesive	extraction & processing	Ice cream and ice cream by
Rubber goods from waste	Tyre moulds and dies for	Asparagus culivation and	products (Frozen, dairy, food,
rubber	different automobiles	processing	ice candy, butter, softy,
Rubber hose pipe	Tyre recycling	Ayurvedic churan & tablets	vanilla, chocolate, cookies,
Rubber hose pipe & rubber	Tyre retreading	Ayurvedic dant manjan (red	fudge, kesar, strawberry,
glazing	Tyre retreading (cold)	colour dabur type)	coffee)
Rubber hoses for automobile	Tyre retreading (hot)	Ayurvedic herbai drinking	Cases butter and asses nowder
Rubber hot water bottle	(tread rubber, cushion gum	Avurvedic medicines	Doiny (buffalo) farming
Rubber insulated pilers (nand	(compound) rubber solution	Ayurvedic nain halm	Dairy (buildio) failining
Dubbar moulding & lining of	pre cured rubber)	ointments	(nasteurised milk abee butter
rubber speeting	Tyre tubes & flaps	Avurvedic pharmacy	paneer)
Rubber plantation	Tyres & tubes	Ayurvedic sharbat	Dairy farming (jersey cows) to
Rubber plastic stamp & pad		Ayurvedic tablets (hajmola	produce milk
(automatic)	Glass Sheet, Flat Glass,	type)	Dairy processing unit (50,000
Rubber plate used in ready	MultiAxial Glass Fabric, Art	Ayurvedic/herbal tablets &	ltr/day)
mix concrete	Glass, Hollow Glass, Fibre	churn	Dairy products
Rubber plate used in ready	Glass, Automotive Glass,	Body creams and lotions	Ice cream & ice candy
mix concrete plant (cement	Float Glass, Thermo Flask,	Boutique	Ice cream cup (plastic)
slurry 30%, rcc 30-40%	Tumblers, Optical Glass,	Cosmetic talcum powder	Ice cream of different flavours
gravels 10-15%)	Toughened Glass,	Cosmetics and plastic	Ice cream parlour
Rubber powder	Glassware Industry, Safety	manufacturing	lee making plant using froop
Rubber powder from used/	Glass	Curcumin and turmeric oil	as liquid
Rubber process oil	Air brushing colours for glass	from turmeric	Instant ice cream mix
Rubber reclaim sheet from	Bottling plant (imfl & country	Extraction of coleus	Khandsari sugar (500 tcd)
used butyl tyre and tube	liquor from rectified spirit)	forskholinns from garmar	Milk processing plant (toned/
Rubber reclaiming	Fabric blinds manufacturing	root	double toned milk, cream,
Rubber reclamation (reclaim	unit	Hair dye in oil farm	butter milk, butter cream, khoa,
rubber)	Fibre glass	Henna paste making	butter, paneer, ghee)
Rubber roller for printing	Fibre glass products	Herbal capsules	Milk processing plant 5000 ltr/
machine	Pible glass sheet (pullusion	Herbal cosmetics &	day (pasteurized milk,
Rubber roller for rice mill	Fibre glass sheets	ayurvedic medicines	flavoured milk,plain dahi & misti
Rubber rollers	Fibre glass wire	Herbal cosmetics unit	dahi) Danan awa fan ing angara
Rubber rollers & ebonite	Flat pvc laminated safety	Herbal face paste	Paper cup for ice cream
rollers	glass and toughened	oil+ppd based)	plant 5000 ltr/day (pasteurized
Rubber rollers for textile mills	Flat pvc laminated safety	Herbal hair oils (avurvedic	milk flavoured milk plain dahi
& paper industries	glass/toughened glass	like banphool oil)	& misti dahi)
rubber goods	Float glass	Herbal powder & cream	Softy ice cream of diffrent
Rubber sheet for automobiles	Glass bottle for beer and beer	Herbal shampoo	flavours
Rubber sheet for shoe sole	mug (tumbler)	Herbal shampoo and cream	Start Your Own Coffee and
Rubber sheet from tyre	Glass bottle manufacturing	Industrial fragrance and	Coffee Processing (Hand Book)
Rubber sheets for shoe soles	Glass bottles of diferrent	flavour used in detergents,	Sugar cubes
eva (ethylene vinyl acetate	Class sheet (automatic plant)	cosmetics, juices, ice	Tuity fruity from papaya fruit
sheet for sole)	Glass sheet for window paper	cream	FIRI can prepare any
Rubber shiner type polish in	Hollow glass ware industry	Isabgol processing unit	Elki can prepare any
aerosol can	Multi axial glass fabric	Kalı mehandi powder (hair	Benort Mail request of
Rubber solution	Multiaxial glass fabric	uye powaer)	Report. Man request at:
Rubber stereo	Pet chips (granules) for fibre	Kesh kala tel (hair dye	eiritechnology@gmail.com
Rubber stereo for printing	and yarn (pet recycling unit)	black nite type)	eiri@eiriindia.org
Rubber transmission belt and	Safety glass	Nail polish, lipsticks, nail	
Pubberised canvas shoos	Thermocole based disposable	polish remover	www.eimindia.org
	glass, cups & plates	P	

Adhesive, Rubber Adhesive, Synthetic Adhesive, Office Pask, Polyurethane Adhesive, Polyurethane Polyurethane, Polyurethane Polyurethane, Polyurethane Polyurethane, Polyurethane Polyurethane, Polyurethane Polyurethane, Polyurethane Polyurethane, Polyurethane Polyurethane, Polyurethane Polyurethane, 	Gums & Adhesives, Sealants, Glues, Gums, Wood	Thermocole bowl, dona, plates etc.	Hospital (400 beds) Hospital cum research centre	Warehouse Water park
Adhesive, Gritiker Paty Photice Paste Photice Paste Photice Paste Photice Paste Photice Paste Photice Paste Photice Paste Photice Paste Photice Paste 	Adhesives, Rubber	Thermosetting adhesive	Hospital/nursing home	Website design & e mail
Adhesive, Orlice Peak, Manesive, Polyurethane Adhesive, Polyurethane Samout Survey, Symbolic Resin, Samout Survey, Symbolic Resin, Samout Survey, Symbolic Resin, Samout Survey, Surve	Adhesive, Synthetic	Wood plastic composite board	(30 beds)	registering
Computer functionModula including boards Santum gumPostel<	Adhesive, Office Paste,	(Wpc)	Hospitals	Women polytechnic college
Thermossitting Adhesives Synthotic Resives Synthotic Resives Adhesive (fevicol type) Adhesive (fevicol type) Adhesive based on vinyl actetate Adhesive for band aid bowing alley Adhesive for band aid Bowing alley Adhesive for band aid Bowing alley Adhesive for band aid Bowing alley Adhesive for band aid Bowing alley Call center (domestic) Call center	Leather Based Adhesive	products including boards	Hosel five star	Insocticidos Disinfoctants
Printing Gums, Binders, Synthetic Resin, Resins. Indicating Individuality School College, Medical School College, Medical College, School School College, School School College, School Adhesive foxed on polyurehane Achesive foxed on polyurehane Achesive based on vinyl actate Achesive based on vinyl actate Achesive based on vinyl actate Achesive based on vinyl actate (fwico I type) Indicating Individuality School College, School Achesive foxed on polyurehane Achesive foxed on park. Real State Projects Medical College, Nopilal Medical College, Nopilal Multipory residential complex Multipory residential complex Nursing home (Colle Fertilizer Multipory residential complex Multipory residential complex Multipory residential complex Multipory residential complex Nursing home (Colle Fertilizer Multipory residential complex Multipory residential complex Multipory residential complex Nursing home (Colle School Arriver Complex fertilizer Multipory residential complex Multipory residential complex Nursing home (Colle School Arriver School Of nursing School Of nursing	Thermosetting Adhesive,	Xanthan gum	It park (infotech park)	Pesticides Mosquito
Synthetic Resin, Section (College, Medical College, Entertainment athesive (polyviny) butyral based)School, College, Medical College, Entertainment athesive (polyviny) butyral based)Internet service provider (UT) Harbiddes, Plant Growth Redical college, hospital and Medical college, hospital and meserach institute Medical college, hospital and meserach institute (planson 4, polymethane park Adhesive for band aid doinson type) Adhesive for band aid Bed and law college Banquet hall Bed and law college Banquet hall Call center (international) Children recreation centre dustive for band aid central relative commercial completer solutions Call center (international) Children recreation centre (Dub center (international) Children recreation centre Upper) Call center (international) Children recreation centre Upper) Call center (international) Children recreation centre Upper) Call center (international) Children recreation centre Upper) Call center (international) Children recreation centre Upper) Candensve tapes School (minary) school manifers of and abosed Gommunity centre Computer education institute of conducts, fish farming, lake rod college contracted building resort, 4 star hotel, rod college contracted building resort, 4 star hotel, rod college contracted building resort, 4 star hotel, rod college park denive tapes rod college for basel abosed gom form tamaind seed gom fort all adhesive for bosting lakes for bosting lakes for bosting admit adhesive based on target for basel (gum) Ford paste (gum) Ford paste (gum) Ford paste (gum) Condices for for sating admit admit cub, holiday resort admit admi	Printing Gums, Binders,	Infotech/It Hotel Hospital	Ice cream parlour	Repellents, Phenyl
Adhesive (favicol type) College, Entrafamment Infernét service provider (isp) Harding vervier Adhesive (favicol type) Aided school Real Estate Projects Adhesive based on vinyl Aided school Aided school Medical college, hospital and research institute Regulator, argorechemicals, and the activator (or organic Pasticides, Parta Growth, Activator, Organic Pasticides, Moral all research institute Pesticides, Aorosol Spray, Naphtalene, Bio Adhesive based on vinyl actate (fevicol type) Addes verband aid (inhospital actore trafadion hospital actore trafa	Synthetic Resin, Resins	School, College, Medical	Industrial training institute (ITI)	Fertilizer, Fungicides,
Adhesive (polyvinyi butyral based) Club, Warchousing And Roll Estab Projects Materinty fulling nome Medical college Regulator, Agrochemicals, Biostimulator, Agrochemicals, Medical college Adhesive based on vinyl actetate (servin) hospital based on vinyl actetate (servin) park massement park Amusement park Amusement park Amusement park Amusement park Cum water park bayrodic college with hospital based on vinyl park park bayrodic college with hospital based and awoollege Banquet hall Bowling alley Adied school Amusement park Adhesive for tow and three wheeler cluth plates Adhesive for stickers Adhesive for park board Adhesive for stickers Adhesive to ros otarities Adresive for stickers Adhesive for based for three aduation institute Computer software Computer aduction institute Fast food park muser park in thospital massed Farilizer Computer software Computere software Community hall soft computere advective School (higher	Adhesive (fevicol type)	College, Entertainment	Internet service provider (isp)	Herbicides, Plant Growth
based op polyurethane Adhesive based on vinyl acetate Achesive based on vinyl acetate Achesive based on vinyl acetate (achesive for based on vinyl acetate (achesive for bad aid (ohnson k johnson type) Achesive for paper board Achesive for hospital use Achesive for hospital achesive Achesive for hospital Achesive for hospital achesive Achesive for hospital	Adhesive (polyvinyl butyral	Club, Warehousing And	Maternity nursing home	Regulator, Agrochemicals,
Adhesive based on Adhesive based on vinyl actetate Add school Activator, Organic Pasteria Adhesive based on vinyl actetate Amusement park cum water pp. wredic college with Anseited (error) type) Mainteent park cum water pp. wredic college with hospital Market (error) Market (error) Pesticides, Merital retardation hospital & Merital retardation hospital & Motel/mail hotel Aerosol-pesticides Adhesive for spare board Adhesive for two and three wheeler clutch piates Call center (international) Children recreation centre Children recreation institute Multiplate, cum hotel Multiplate, c	based)	Real Estate Projects	Medical college bospital and	Bio Stimulate, Growth
payurethane Adhesive based on vinyl acetate Adhesive based on vinyl acetate (achesive for stakers (achesive for spaper board Adhesive for stakers Adhesive tapes Gom (sodium silicate based) Gum (sodium silicate based) Gum for pasting labels Gum forot and boxes I stach, gum. Adhesive Athesive (gum) Polyuethane dhesive Definat college Entertainment club, holidaj resort, 4 star hotel, Amusern foroa park furthenology institute park mushroom and its products, fin farming, lake Polyuethane dhesive Dolaria college Entertainment club, holidaj resort, 4 star hotel, Fini studioff versita Polyuethane fasies Polyuethane fasing programm frint & engineering college Franchise traing progra	Adhesive based on	Aided school	research institute	Activator, Organic
Amesive desed off innyr Adhesive based off innyr Adhesive based off innyr Adhesive based off innyr Adhesive for gasket (iquid/ Adhesive for gasket (iduid/ Adhesive for stickers Adhesive for two and three wheeler cluch plates Adhesive industries Adhesive industries Adhesive for baopt all ad Adhesive for two and three wheeler cluch plates Adhesive industries Adhesive for baopt all ad Adhesive for two and three wheeler cluch plates Adhesive industries Adhesive industries Adhesive industries Adhesive for baopt all ad Adhesive for baopt all ad Adhesive for two and three wheeler cluch plates Adhesive industries Adhesive industries Adhesive tape for hospital us Adhesive tape for hospital for hospit	polyurethane	Amusement park	Medical transcription centre	Pesticides, Aerosol Spray,
Adhesive based on vinyl actates (revicol type) park Apurvatic college with bospital Mega food park Mental retardation hospital Pesticides, Mental retardation hospital Adhesive for band aid (dinson & johnson type) Adhesive for saket. (fiquid) paste) Bed and law college Mental retardation hospital Aeros-l-pesticides Bernyl Black in liquid form Naphtalene Balls and Phenyl Multiplex cum entertainment centre Adhesive for saket. (fiquid) paste) Call center (domestic) Call center (domestic) Multiplex cum entertainment centre Multiplex cum entertainment centre Naphtalene Balls Park Multiplex cum entertainment centre Adhesive for skicker, dk øther types) Community centre Community hall Computer software Cyber cafe Nursing home (n Nursing home) Lacquer, Claar nursing home (n nursing home (n nursing home) Finisthing Lacquer, Claar park muthardow and based Office paste (num) Finisthing Lacquer, Claar productin finistitue productin finistitue productin finistitue productin finistitue productin finistitue productin finistitue productin finistitue productin finistitue productin finist de productin finiste training prosting prinistitue for	acetate	Amusement park cum water	Medical university	Naphthalene, Bio
acteatic (revico) (type) Adhesive for band aid (phrson & johnson type) Adhesive for gasket (liquid/ paste)Aerosol-pesticides BiofertilizerAdhesive for gasket (liquid/ paste)Baquet hall Baquet hall Call center (domestic) Call center (domestic) Computer software Cyber cafe Dompiex adhesive (different types) Bops self adhesive based Gum forn tamarind seed Gum forn tama	Adhesive based on vinvl	park	Mega food park	Pesticides,
Adhesive for band aid (johnson & type) Bed and law college Biofertilizer Adhesive for space board Adhesive for two and three Matesive for two and three Wheeler clutch plates Biofertilizer Multiplex cum entertainment Call center (domestic) Adhesive for two and three Wheeler clutch plates Call center (domestic) Multiplex cum hotel Multiplex cum hotel Adhesive for two and three Wheeler clutch plates Call center (domestic) Multiplex cum hotel Multiplex cum hotel Adhesive for two and three Wheeler clutch plates Community centre Multiplex cum hotel Multiplex cum hotel Adhesive tabes to thospital (admiated, sticker, dil & othry pers) Community centre Nursing home (ent and ophthalmology - eye) Nursing home (ent and ophthalmology - eye) Nursing home (ent and ophthalmology - eye) Gum for pasting labels E commercibusiness E conder ent park cum water protucting diver paster E conder ent/paster Nursing home (ent and ophthalmology - eye) Gum for pasting labels Entertainment club, holiday resort, 4 star hotel, producting, fish farming, lake for bating, deer park. School (primary) School (primary) School (primary) School of nursing school rinusy School of nursing school rinusy School fingen secondary school rinusy Gum for paste (gum) Polyurethane damesive with process & formulae Uses for basing gum	acetate (fevicol type)	Ayurvedic college with	Mental retardation hospital &	Aerosol-pesticides
(johnson k) johnson type) Adhesive for paper board Adhesive for paper board Adhesive for paper board Adhesive for paper board Adhesive for stickers Adhesive for woand three Call center (international) Children recreation centre Club Call center (international) Children recreation centre Club Community centre Club Community centre Computer education institute Adhesives (different types) Bopp self adhesive tapes Condome manufacturing for Iatex Date (pvc) Gum for pasticate based Gum for matarind seed Gum for matarind seed Gum manufacturing for Iatex based for matariand seed Gum for matarind seed Gum for matarind seed Gum for pasticate based Gum for matarind seed Gum for matarind seed Gum for matarind seed Gum for pasticate based Gum for matarind seed Gum for matarind seed Gum for matarind seed Gum for matarind seed Gum for mataring labels For fashing Lacquer For past, muster pask, muster pask, muster pask, muster pask and the past past transcent pask cum water pask, muster past for past (gum) Proful file spaste (gum) Proful file spaste (gum) Proful spaste (file the obsprene based Golf course Franchise training programm Franchise training progr	Adhesive for band aid	hospital R ad and law college	cerebral palsy	Biofertilizer
Adhesive for gasket (inquid) Adhesive for spape board Adhesive for stickers Adhesive for stickers adhesive for hospital wheeled dutch plates Community centre Cluiden recreation centre Community centre Community centre Community hall Computer software Comdure reducation institute with spesial use Condome manufacturing from latex Condome manufacturing for condome manufacturing for condome manufacturing for condome manufacturing for products, fish farming, lake resoft, 4 star hotel, amusement park cum water products, fish farming, lake resoft, 4 star hotel, amusement park cum water products, fish farming, lake resoft, 4 star hotel, fransbing during during for brodstrial adhesive based Office paste Office spaste Office spaste Office spaste Office	(johnson & johnson type)	Banquet hall	Multiplex cum entertainment	Phenyl (black & white)
Adhesive for paper board Adhesive for paper board Adhesive for paper board Adhesive for two and three wheeler clutch plates Adhesive two and three wheeler clutch plates Adhesive tapes Adhesive tape for hospital types) Adhesive tapes Condume manufacturing from Gum for tamarind seed Gum for tamaring seet Prive star hotel Firest star hotel Fire hoties taminet bolid with s	Adhesive for gasket (liquid/	Bowling alley	centre	Phenyl Black in liquid form
Adhesive for stickers, Adhesive for two and three wheeler ducth plates Adhesive top for hospital dultstorey residential complex Multistorey residential complex Narsing home (ent and ophthalmology - eye) Ontal Gum forn tamarind seed Gum soften paste Gum forn tamarind seed Gum forn tamarind seed for baster, gum, dextrin silicate tatex based rubber adhesive production Film studiol/ serial & tv al production Film studiol/ serial adh Resportent adhesive polyurethane formits Goff course Film studiol/ serial erriting for it & engineering for it & e	Adhesive for paper board	Call center (domestic)	Multiplex cum hotel	Perfumed Phenvl
Adhesive for two and three wheeler clutch plates Adhesive industries (laminated, sticker, did & other types)Children recreation centre Cullegecomplex complex Natural medicine & research Nature are centre Nursing home Nursing home Portal Eachol East fod parlour Finest & Smart Project Report Food parlour Finest & Senite rea	Adhesive for stickers	Call center (international)	Multistorey commercial	Scented Phenyl Manufacture
wheeler dutch plates Adhesive industriesCollege Community centre Community hall Computer education institute Computer ed	Adhesive for two and three	Children recreation centre	complex	Naphthalene Balls
Adhesive industriesConfigureContain interfactoriesContain interfactoriesContain interfactoriesContain interfactoriesContain	wheeler clutch plates		Natural medicine & research	NPK Fertilizer
(Iaminated, sticker, dol & other types)Community hall Computer software Cyber cafe Dental collegeNature care centre Nursing home Nursing home Nursing home (Manustry, Teach Stacker, and Stacker, dol & Stacker, dol & Stacker, Stacker, and starch, gum, detrin silicate based or based interview for diffee paste (gum) Polyurethane adhesive Office paste (gum) Polyurethane foams Printing gum Printing gum Recycling tyre and to make rubber rollers)Nature care centre Nursing home Nursing home (Manustry, Stacker, and Stacker, Nursing home Nursing home (Manustry, Stacker, and Stacker, and Stacker, and Stacker, gum, detrin silicate based on starch, gum, detrin silicate Define tabesive Office paste (gum)Nature care centre Nursing home (Manustry, Stacker, and Stacker,	Adhesive industries	Community centre	institute with 150 beds hospital	Urea Fertilizer
Computer software Computer software Comput	(laminated, sticker, ddl & other	Community hall	Nature care centre	Neem Based Fertilizer
Adhesives Adhesives (different types)Computer software computer software (condome manufacturing from Dental college Dental college Dental college Dental college Dental college Commerce/business E school E school E school E school E metrainment club, holiday resort, 4 star hotel, amusement park cum water products, fish farming, lake for boating, deer park for boating al ining drive secondary school (higher secondary) school furising park theilt houb, beauty parlour food parlo	Adhesive tape for hospital use	Computer education institute	Nursery school	Herbal Fertilizer
Bopp self adhesive tapesCyber cateNursing home (ent and ophthalmology - eye)Gomd (sodium silicate based) Gum (sodium silicate based) Gum for pasting labels Gum fror tamarind seed Gum for baranita densive based on starch, gum, dextrin silicate Latex based rubber adhesive Office paste (gum) Polyurethane foraus Polyurethane foraus Polyurethane foraus Polyurethane for Polyurethane for based Printing gum Printing for Polyurethane for Po	Adhesives (different types)	Computer software	Nursing home	Water Soluble Fertilizer
Condome manufacturing from latex Gum (sodium silicate based) Gum (sodium silicate based) Gum for pasting labels Gum for pasting labels Gum for pasting labels Gum manufacturing for Gum manufacturing for Finest & Smart Project Report On Cold Storage Fries star hotel Fries star hotel Franchise training programme franchise training programme franchise training programme etertainment club with 4 star hotel Halth club and fitness center Health club beauty parlour Health club peaty parlour Health club p	Bopp self adhesive tapes	Cyber cate	Nursing home (ent and	Looguor Industry
latexContingent constantContingent constantGum (sodium silicate based)E commerce/businessContingent constantGum (sodium silicate based)E commerce/businessPortalGum for pasting labelsE schoolPortalGum manufacturing forEntertainment club, holidayGum manufacturing forEntertainment club, holidayGum kextin silicateEntertainment club, holidayIndustrial adhesive based onEntertainment club, holidayRatch, gum, dextin silicateEasthon technology instituteLatex based rubber adhesiveFast food parlourFast food parlourFast food parlourFast food parlourSchool (primary)School (primary)School of nursingSchool tribe staetFinest & Smart Project ReportOn Clod StorageTissue culture bio-it. basePrinting gumFive star hotelFrinting gumFive star hotelFrintig gumFood parlourFood parlour <td>Condome manufacturing from</td> <td>Dental college</td> <td>Old age home</td> <td>Nitrocellulose (Nc)</td>	Condome manufacturing from	Dental college	Old age home	Nitrocellulose (Nc)
Gum (sodium silicate based) Gum (sodium silicate based) Gum for pasting labels Gum for tamarind seed Gum manufacturing for corrugated board and boxes industrial adhesive based on starch, gum, dextrin silicate Latex based rubber adhesive Office paste (gum) Polyurethane adhesive Polyurethane adhesive Office paste (gum) Polyurethane adhesive Polyurethane adhesive Polyurethane adhesive Polyurethane adhesive Polyurethane adhesive (gum) Polyurethane adhesive Polyurethane foams Printing gum Recycling tyre and to make rubber adhesive for Rubber adhesive for plywood Rubber adhesive for boxing for tile agningening entrance exams Conf course Health club, beauty parlour Holiday resort cum entertainment club hotel Synthetic rubber adhesive for boxing device Synthetic rubber adhesive for boxing device boxing device Synthetic rubber adhesive for boxing device boxing device Synthetic rubber adhesive for boxing device boxing device boxin	latex	E commerce/business	Online shopping mall	Lacquer, Water based
ComContentCo	Gum (sodium silicate based)	E school	Portal	Lacquer. Polyurethane (PU)
Gum for pasting labels Gum forn tamarind seed Gum manufacturing for corrugated board and boxes Industrial adhesive based on starch, gum, dextrin silicate Latex based rubber adhesive Office paste Office paste Polyurethane foams Printing gum Reycling fyre and to make Rubber adhesive for Rubber adhesive for Rubber adhesive Sondo for ursing Reycling fyre and to make Rubber adhesive for plywood Rubber rollers) Synthetic rubbers adhesive Synthetic rubbers adhesive Synthetic rubber adhesi	Gum bottle (pvc)	Engineering college	Pre fabricated building	Lacquer, Lacquer
Gum from tamarind seed Gum manufacturing for corrugated board and boxes Industrial adhesive board and boxes Industrial adhesive based on starch, gum, dextrin silicate Latex based rubber adhesive Office paste Office paste (gum) Polyurethane adhesive Polyurethane adhesive Polyurethane adhesive Polyurethane adhesive Polyurethane for it & engineering entrance Rubber adhesive for pubber sheeting Rubber adhesive for printing, textile, tanning & ebonite rollers) Synthetic rubber adhesive Synthetic rubber adhesive	Gum for pasting labels	Entertainment club	Rehabilitation centre for aged	Electrophoretic, Lacquer
Gum manufacturing for corrugated board and boxes industrial adhesive based on starch, gum, dextrin silicate Latex based rubber adhesive Office paste (Office paste (Office paste (gum)) Polyurethane adhesive Polyurethane forms Printing gum Printing gum Printing gum Printing gum gum based)Finishing Lacquer, Clear Transparent Lacquer etcRestaurant with pub School (higher secondary) School of nursing School of nursing School of nursing Polyurethane forms Printing gum Printing gum Printing gum gum based)Finishing Lacquer, Clear Transparent Lacquer etcRestaurant with pub School (higher secondary) School of nursing School of nursing School of nursing PoiductionAlpha Cellulose Powder From Cotton Waste Manufacture (In 1 Ltr Pet Bottles, 20 Ltr Jars & 250 MI. Pouches)Printing gum Printing gum Recycling tyre and to make rubber colour tiles Rubber adhesive for decorative laminate bonding Synthetic rubber adhesive for printe, textile, tanning & ebonite rollers)Finesta farming, lake productionFinesta Complex Restaurant with pub School of nursing School of nursing School primary)Finesta Complex Restaurant with pub School of primary)Rubber adhesive for decorative laminate bonding Synthetic rubber adhesive for decorative laminate bondingFinesta Complex Printing sector Finesta Sama	Gum from tamarind seed	Entertainment club, holiday	& needy persons Residential cum commercial	Emulsion, Leather
Corrugated board and boxes Industrial adhesive based on starch, gum, dextrin silicate Latex based rubber adhesive With process & formulae Leather to leather adhesive Office paste (gum) Polyurethane adhesive Polyurethane foams Printing gum Printing gum Resycling tyre and to make rubber colour tiles Rubber adhesive (all purpose) Rubber adhesive for gubber adhesive for plywoid Rubber adhesive for plymotor Printing textile, tanning & ebonite rollers) Synthetic rubber adhesive for gynthetic rubber adhesive for gynthetic rubber adhesive for gynthetic rubber adhesive for decorative laminate bonding Synthetic rubber adhesive for deco	Gum manufacturing for	amusement park cum water	complex	Finishing Lacquer, Clear
 Restaurant with pub Starch, gum, dextrin silicate Latex based rubber adhesives with process & formulae Leather to leather adhesive Office paste Office paste (gum) Polyurethane adhesive Polyurethane adhesive Polyurethane adhesive Polyurethane foams Printing gum Printing gum Printing gum Bestaurant with pub School (higher secondary) School of nursing School of nursing School with hostel School with hostel School secondary school Special economic zone (sez)/ Industrial park Three star hotel Tissue culture bio-i.t. base Food parlour Franchise training programme for iit & engineering entrance exams Golf course Health club, beauty parlour Health club and fitness center Holiday resorts Holiday resorts Holiday resorts Holiday resorts Holiday resorts Hospital (100 beds) Ware house Alpha Cellulose Powder From Cotton Waste Manufacture Of Cellulose Accetate Nitrocellulose Lacquer (Nc) Polyethylene Wax (PP Wax) Polyethylene Bottle Polyol Used In Polyurethanes Polyethylene Bottle Polyol Used In Polyurethanes Polyethylene Bottle Polyol Video film studio Video film studio Video film studio Video film stud	corrugated board and boxes	park, mushroom and its	Restaurant	Transparent Lacquer etc
Jatex based rubber adhesive with process & formulae Latex based rubber adhesive Office paste Office paste (gum) Polyurethane adhesive Printing gum Printing gum based)for boating, deer park Fashion technology institute Fast food parlour Film studiofty serial & tv ad productionSchool (higher secondary) School (primary) School of nursing School of nursing School (primary) School of nursing School (primary) School of nursing School (primary) School of nursing School of nursing School (primary) School of nursing School of nursing School parlour Firest & Smart Project Report On Cold Storage Food parlour Franchise training programme for iit & engineering entrance exams Golf course Health club, beauty parlour Health club and fitness center hotelSchool (higher secondary) School of nursing School of nursing Scho	starch our dextrin silicate	products, fish farming, lake	Restaurant with pub	Alaba Callulana Dawdaa Fram
 with process & formulae Leather to leather adhesive Office paste (gum) Polyurethane adhesive Polyurethane foams Printing gum based) Recycling tyre and to make rubber colour tiles Rubber adhesive for plywood Rubber adhesive for plymodi Rubber rollers) Synthetic rubber adhesive Rubber adhesive for Rubber adhesive for	Latex based rubber adhesives	for boating, deer park	School (higher secondary)	Cotton Waste
Leather to leather adhesive Office paste Office paste Off	with process & formulae	Fashion technology institute	School (primary)	Manufacture Of Cellulose
Office paste Office paste (gum) Polyurethane adhesive Polyurethane foams Printing gum Printing gum Printing gum (guar gum based) Recycling tyre and to make rubber adhesive (all purpose) neoprene & isoprene based rubber moulding & lining of rubber sheeting Rubber adhesive for plywood Rubber adhesive for plywood Rubber adhesive for plymood Rubber adhesive for decorative laminate bonding Synthetic rubber adhesive Synthetic rubber adhesivenumatation ochra of the draw production Finest & Smart Project Report On Cold Storage Five star hotel Food parlour Franchise training programme for iit & engineering entrace exams Golf course Health club and fitness center Health club, beauty parlour Health club, beauty parlour Health club and fitness center hotel Holiday resorts hotelNitrocellulose Lacquer (Nc) Packaged Drinking Water Time stantang programme training institute for medical Veterinary college Veterinary college Veter	Leather to leather adhesive	Film studio/ty serial & ty ad	School with hostel	Acetate
Conce paste (guni)Polyurethane adhesivePolyurethane foamsPrinting gumPrinting gumPrinting gums (guar gumbased)Becycling tyre and to makeRubber adhesive (all purpose)neoprene & isoprene basedRubber moulding & lining ofRubber adhesive for plywoodRubber rollers)Synthetic rubber collers)Synthetic rubber adhesiveSynthetic rubber adhesive </td <td>Office paste</td> <td>production</td> <td>Senior secondary school</td> <td>Nitrocellulose Lacquer (Nc)</td>	Office paste	production	Senior secondary school	Nitrocellulose Lacquer (Nc)
On Cold Storage Printing gumOn Cold Storage Five star hotelindustrial parkWith Pet Manufacture (In 1Polyurethane foamsFive star hotelThree star hotelLtr Pet Bottles, 20 Ltr Jars &Printing gumFood parlourFive star hotelTissue culture bio-i.t. baseDolyurethanesPased)Food processing and training centreFood processing entranceTownshipPolyethylene Bottle PolyolRubber adhesive (all purpose) neoprene & isoprene based rubber moulding & lining of printing, textile, tanning & ebonite rollers)Food processing and training centreTraining institute for medical trainscriptionWith Pet Manufacture (In 1Health club, based rubber solveFood processing and training centreTraining institute for medical townshipTraining institute for medical Veterinary collegeVeterinary college Veterinary collegePolyurethanes Polyurethane Rigid Foams (Continuous And Discontinuous Sandwitch Panel)Rubber rollers) Synthetic rubber adhesiveFood parcesorts HotelHoliday resorts Hospital (100 beds)Intraining agriculture for medical training institute nursing home with dispensary, sports and recreational centre, including agriculture for mole of 5 ml/ 10 ml/ 30 ml Manufactured Which Are Used For Dry Injection And Dry Syrps)	Polyurethane adhesiye	Finest & Smart Project Report	Special economic zone (sez)/	Packaged Drinking Water
Printing gum Printing gums (guar gum based) Recycling tyre and to make rubber colour tiles Rubber adhesive (all purpose) neoprene & isoprene based rubber moulding & lining of rubber scheeting Rubber adhesive for plywood Rubber orllers) Synthetic rubber adhesive Synthetic rubber	Polyurethane foams	On Cold Storage	industrial park	Itr Pet Bottles 20 Itr Jaro 9
Printing gums (guar gum based) Recycling tyre and to make rubber colour tiles Rubber adhesive (all purpose) neoprene & isoprene based rubber moulding & lining of rubber adhesive for plywood Rubber adhesive for plywood Rubber adhesive for plywood Rubber adhesive for plywood Rubber rollers) Synthetic rubber adhesive Synthetic rubb	Printing gum	Five star hotel	Inree star hotel	250 MI. Pouches)
based) Recycling tyre and to make Rubber colour tiles Rubber adhesive (all purpose) neoprene & isoprene based rubber moulding & lining of Rubber adhesive for plywood Rubber adhesive for plywood Rubber adhesive for plywood Rubber adhesive for plywood Rubber rollers) Synthetic rubber adhesive Synthetic rubber adhesive Synthetic rubber adhesive Synthetic rubber adhesive	Printing gums (guar gum	Food processing and training	Tourist club	Polyethylene Wax (PP Wax)
Recycling tyre and to make rubber colour tilesFranchise training programme for iit & engineering entrance examsTraining institute for medical transcriptionUsed In Polyurethanes Polyurethane (PU) Lacquer Polyurethane Rigid FoamsRubber adhesive (all purpose) neoprene & isoprene based rubber moulding & lining of rubber adhesive for plywood Rubber rollers (application for printing, textile, tanning & ebonite rollers)Franchise training programme for iit & engineering entrance examsTraining institute for medical transcriptionUsed In Polyurethanes Polyurethane (PU) Lacquer Polyurethane Rigid FoamsRubber adhesive for printing, textile, tanning & ebonite rollers)Franchise training programme for iit & engineering entrance examsTraining institute for medical transcriptionUsed In Polyurethanes Polyurethane (PU) Lacquer Polyurethane Rigid FoamsNubber rollers Synthetic rubber adhesiveFranchise training programme for iit & engineering entrance examsTraining institute for medical transcriptionUsed In Polyurethanes Polyurethane Rigid Foams Used file foamsNubber adhesive Synthetic rubber adhesiveFoal foams training institute for site of adhesive Hospital (200 beds)Training institute for medical trainscriptionUsed In Polyurethanes Polyurethane Rigid Foams Used file foamsNubber adhesive Synthetic rubber adhesiveFranchise training programme thotelTraining institute for medical training institute, nostel with kitchen, rehabilitation centre, including agriculture farming Ware houseUsed In Polyurethanes training institute, Polyurethane Rigid FoamsSynthetic rubber adhesive<	based)	centre	Township	Polyethylene Bottle Polyol
Inductor of the discussionFor iit & engineering entrance examstranscriptionPolyurethane (PU) Lacquer Polyurethane (PU) Lacquer Polyurethane Rigid FoamsRubber adhesive (all purpose) neoprene & isoprene based rubber moulding & lining of rubber adhesive for plywood Rubber adhesive for plywood Rubber rollers)for iit & engineering entrance examstranscriptionPolyurethane (PU) Lacquer Polyurethane Rigid FoamsKubber adhesive for printing, textile, tanning & ebonite rollers)for iit & engineering entrance off coursetranscriptionPolyurethane (PU) Lacquer Polyurethane Rigid FoamsKubber adhesive for printing, textile, tanning & ebonite rollers)for iit & engineering entrance off coursetranscriptionPolyurethane (PU) Lacquer Polyurethane Rigid FoamsKubber adhesive bootie rollers)Health club and fitness center Holiday resorts hotelNostel with kitchen, nursing home with dispensary, sports and recreational centre, including agriculture farming Ware housePolyurethane (PU) Lacquer Polyurethane Rigid FoamsKubber adhesive Synthetic rubber adhesiveFor Divertane (PU) Lacquer Veterinary college with hospital (200 beds)transcription veterinary college with hospital vocational training institute, nursing home with dispensary, sports and recreational centre, including agriculture farming Used For Dry Injection And Dry Syrps)	Recycling tyre and to make	Franchise training programme	Training institute for medical	Used In Polyurethanes
neoprene & isoprene based rubber moulding & lining of rubber sheeting Rubber adhesive for printng, textile, tanning & ebonite rollers) Synthetic rubber adhesive Synthetic rubbe	Rubber adhesive (all purpose)	for iit & engineering entrance	transcription	Polyurethane (PU) Lacquer
rubber moulding & lining of rubber sheeting Rubber adhesive for printng, textile, tanning & ebonite rollers)Health club and fitness center Health club, beauty parlour Health club, beauty parlour Health resorts Holiday resort cum entertainment club with 4 star hotel Holiday resorts Holiday resorts Holiday resorts Holiday resorts Hospital (100 beds) Synthetic rubber adhesiveUter of the sort of the s	neoprene & isoprene based	exams Colf course	Veterinary college	(Continuous And
rubber sheeting Rubber adhesive for plywood Rubber rollers)Health club, beauty parlour Health club, beauty parlour Health resorts Holiday resort cum entertainment club with 4 star hotel Holiday resortsVocational training institute, hostel with kitchen, rehabilitation centre, mini nursing home with dispensary, sports and recreational centre including agricultural centre including agricultural centre including agricultural centre including agricultural centre including agricultural centre used For Dry Injection And Dry Syrps)Panel) Polyurethane Semirigid and Rigid Sandwich Panels Water For Ampoule (Water Ampoule of 5 mil/ 10 mil/ 30 mil Manufactured Which Are Used For Dry Injection And Dry Syrps)	rubber moulding & lining of	Health club and fitness center	Video film studio	Discontinuous Sandwitch
Rubber rollers (application for printng, textile, tanning & ebonite rollers) Synthetic adhesive for decorative laminate bonding Synthetic rubber adhesive Synthetic rubber adhesive	rubber sheeting	Health club, beauty parlour	Vocational training institute.	Panel)
Holiday resort cum printing, textile, tanning & ebonite rollers) Synthetic adhesive for decorative laminate bonding Synthetic rubber adhesive Synthetic rubber adhesive	Rubber rollers (application for	Health resorts	hostel with kitchen,	Polyurethane Semirigid and
entertainment club with 4 star Synthetic adhesive for decorative laminate bonding Synthetic rubber adhesive Synthetic rubber adhesive	printing, textile, tanning &	Holiday resort cum	rehabilitation centre, mini	Rigid Sandwich Panels
Synthetic adhesive for decorative laminate bonding Synthetic rubber adhesive Synthetic rubber adhesive	ebonite rollers)	entertainment club with 4 star	nursing home with dispensary,	Ampoule of 5 ml/ 10 ml/ 30
decorative laminate bonding Synthetic rubber adhesive Synthetic rubber adhesive Synthetic rubber adhesive	Synthetic adhesive for	notel Holiday, resorts	sports and recreational centre,	ml Manufactured Which Are
Synthetic rubber adhesive Hospital (200 beds) Ware house Dry Syrps)	decorative laminate bonding	Hospital (100 beds)	including agriculture farming	Used For Dry Injection And
avonuenci nobel appesive i i i i i i i i i i i i i i i i i i	Synthetic rubber adhesive	Hospital (200 beds)	Ware house	Dry Syrps)

Market Overview Cum Detailed Techno Economic Faeasibility Report on all Projects are available contact: ENGINEERS INDIA RESEARCH INSTITUTE

4449, Nai Sarak, Main Road, Delhi - 110 006 (India) * Ph. : +91 9811437895, 9289151047, 91-11-23918117, 43658117, 45120361 Email: eiri@eiriindia.org, eiriprojects@gmail.com Website: www.eiriindia.org, www.eiribooksandprojectreports.com

Highly Profitable Projects for New Entrepreneurs "EIRI Market Overview Cum Detailed Techno Economic Feasibility Reports"			
Maize, Corn, Starch, Glucose and its Products Processing Projects	Mining, Granite, Gypsum, Mica, Marble And Minerals Based Projects	Agarbatti (mosquito repellent) Allethrin mosquito mat recharger Allethrin mosquito repellent oil	Paint, Pigments, Enamel, Inks, Solvents, Thinners And Varnish
Baby corn Corn chips Corn flakes Corn flakes with details of machines and its suppliers sources Corn oil (maize oil) Ena plant based on maize Ethyl alcohol from corn Grain based ena plant (ena plant based on maize) Liquid glucose from maize Maize & its by products Maize & its by product (1000 ton/day maize processing plant) Maize & its bye product (25 ton/day maize processing plant)	Activated carbon plant Amines and allied products Calcination plant for pyrophyllite and diaspore minerals by vertical shaft kiln process Calcined gypsum for plaster in construction sector Chrome mining ore (alluvial chrome mining) Ferro silicon from mineral Granite and other stone blocks processing and polishing Granite crushing unit Granite cutting & polishing unit Granite mining Granite tiles	Allethrin mosquito repellant oil Mosquito & flies repellent agarbatti (incense sticks) Mosquito coil agarbatti (incense sticks) Mosquito coils and mats Mosquito coils using eucalyptus leaves Mosquito larva destroyer Mosquito repellant wrist band Mosquito repellent coils Mosquito repellent wats Mosquito repellent vaporizer (all-out mosquito oil) Pest control Onion and Onion Products viz Onion dehydration, Onion and Garlic Powder,	Acrylic cement paint Acrylic colours Acrylic emulsion paints Aerosol paint spray Aerosol-pesticides Aluminium paints Aluminium wire drawing and super enamelling Anti corrosive wax coating (aerosol) Automobile paints Ball point pen refill ink Bitumen Bituminious felts for water & damp proofing Bituminious based corrosion resistant
Maize dry milling plant Maize flour & by product manufacturing plant Maize processing for glucose	Graphite ore benefication Gypsum board manufacturing Gypsum plaster board, gypsum plaster and plaster of	Onion Flakes, Onion Storage, Garlic and Onion Dehydration, Garlic Flakes and allied Products	Buffing & polishing Cement paint Cement paint for white & grey cement Clear transparent lacquer for
Ton/Day Maize Processing Plant (500 Ton/Day Maize Processing Plant) Maize Processing Plant (150 Ton/Day) Maize processing plant (starch, modifid starch, liquid glucose, dextrin, gluten etc.) Maize processing plant starches/modified starches/ liquid glucose/dextrose monohydrate/glucose syrups/ corn syrup solids/high maltose corn syrup solids/high maltose corn syrup solids/high maltose corn syrup solids/bigh maltose corn syrup solid	Gypsum plaster boards and plaster of paris Iron ore mining Iron ore pelletization plant Lime stone mining Manganese ore beneficiation Marble and granite chips Marble and granite tiles Marble-granite cutting and polishing Mica paper for electrical insulation Mineral wool (stone wool) Open cast mining of chrome ore Pulverising of mineral, sulphur powder from sulphur Stone mining Stone quarry Wet ground mica	Dehydration & canning of fruits & vegetables Dehydration industry onion chips and powder and garlic powder Dehydration of canning of fruits & vegetables Dehydration of carrot & garlic Dehydration of fruits & vegetables by iqf technology Dehydration of fruits & vegetables by vacuum drying method Dehydration of jackfruit Dehydration of jackfruit Dehydration of onion & garlic Garlic & ginger paste Garlic flakes Garlic flakes & powder (dehydrated) Garlic il & powder	coating on brass bangles to make it weather-resistant Digital ink Dispersant Dry distemper Dry distemper & cement paint Duplicating ink black for gestner duplicator Dye fixing agent (low formaldehyde for pigment printing like acrafix ml) Electrophoric lacquer, polyurethane (pu) lacquer (water based) in liquid form for electrophoretic coating application on metal plates Emulsifier for pesticides Emulsion paints (water based) Enamel removers Enamelling of copper wire
Maize/corn oil from corn germ Mini flour mill (maize, sorghum, millet) Project Reports To Start New Industry on maize and corn processing Rice and corn flakes Rice flakes, corn flakes & wheat flakes (integrated unit) Sorbitol from corn Sorbitol from maize starch Starch & allied products from maize Starch from maize Yeast dry powder from maize	Mosquito Preventive Projects viz Mosquito Coil, Mosquito Repellent, Mosquito Liquid Vaporizer, Mosquito Repellent Wristband, Insects Repelling Mats, Mosquito Net, Mosquito Larva Destroyer, Mosquito and Flies Repellent Agarbatti (Incense Sticks) etc. Aerosol & mosquito repellant spray (baygon, hit, mortein type)	Garlic oil and powder Garlic powder Onion dehydration Onion paste and powder making unit 1 t/day Onion powder Onion Powder (Export Oriented Unit) Onion, garlic & ginger dehydration plant Onion, Potato and Garlic Dehydration for export purposes	Epoxy resins Fabric inks with digital ink Flame ratardant paints Glass coating solution Hammertone paints Ink solvent based (pvc free) Insulating varnish & wire ename! Insulating varnish (polyvinyl butyral based, ffc grade) Iron oxide pigments Lacquer emulsion (high shine and medium shine) for leather finishing & n.c.lacquer for leather finishing (formulation &

ket Overview Cum Detailed Techno Economic Faeasibility Report on all Projects are available cont ENGINEERS INDIA RESEARCH INSTITUTE 4449, Nai Sarak, Main Road, Delhi - 110 006 (India) * Ph. : +91 9811437895, 9289151047, 91-11-23918117, 43658117, 45120361 Email: eiri@eiriindia.org, eiriprojects@gmail.com Website: www.eiriindia.org, www.eiribooksandprojectreports.com

manufacturing processes)	Putty (metal casement)	Zinc phosphate pigment for	Bitumen Brako oli (brako fivid)
Lime colour/cement colour	Red oxide pigment	paints	Brake oil (brake fluid)
used for flooring	nickling plant waste		(refining of edible oils)
Lime putty	Red oxide primer	Perfumes, Flavours And	Crude oil bleaching for
Marking inks (water proof)	Refractory paint (graphite	Essential Oils	petroleum jelly
Metal naphthanate (as drier	based)	Aromatic Perfumery	Crude oil refining
for paints)	Screen printing inks	Compounds	Fuel briquettes from agro
Mica pearl pigment	Silicone emulsion for textile	Agarbatti & allied	waste
Mirror back paint	Solvent & thinners	Agarbatti (incense sticks)	Fuel injection pump calibration
Mirror back paints (orange,	Solvent blue 35	Agarbatti perfumery	(mico calibration test bench)
golden, pink, black & silver)	Solvent extraction plant (silk	compounds with formulations	Fuel injection system
N.C. thinners used in	worm pupae)	Agarbatti synthetic,	Fuel oil
automobiles	Solvent fre lamination,	perfumery compounds	Fuel oil from jatropha (jatropha
N.C.thinners	slitting, rewinding and bag	Anti corrosive wax coating	bio-diesel oil extraction from
narts	making Spirit soluble meloie regin	(aerosol)	Gear oil
Naphtha based thinner	Spint soluble maleic resin	Deodorant perfume spray	Industrial petroleum & nuclear
NC putty	Stamp & pad ink	(non acconone runy automatic	filters
Offset printing ink	Stoving paint	Dhoophatti (synthetic)	Lube oil & grease
Oil bound distemper paint	Synthetic red oxide for	Essential oil from wood flex	Lube oil & grease from used
Paint & reducer	floorings	Extraction of essential oils (by	engine oils
Paint and primer	Texture paints	super critical method)	Lube oil blending with greases
Paint brushes	Thickener for paints in liquid	Extraction of essential oils	Lube oil viscosity improved
Paint drier	form	(cardamom, jeera, ajowan,	for p.p.g./p.e.g.
Paint industry	Thinner	ginger oils, etc. & packaging	Lubricant for rolling mill
Paint industry & wall putty	Thinner for industrial use with	of ground spices)	Lubricants ashless 100%
Paint manufacture for rolling	thinner for acrylic paint,	Fractional distillation of	combustion
coating or aluminium and	thinner for enamel paint,	essential oil & medicinal plant	Paraffin wax
Paint manufacturing for rolling	thinner for pu paint, thinner	extract	Paralini wax noni siack wax
coating of aluminium & steel	Thisper manufacturing unit	Lemon Grass Oil Production	automobile workshop service
coil	including polish thinner	Perfume with formulation	station with modern equipment
Paint removers	methanol based synthetic	Perfumed phenyl (nine oil	and computerised machines
Paints industry (lime colour,	thinner mto based, denatured	disinfectants)	Petroleum jelly
dry distemper, oil bound	spirit based thinner, nc	Perfumes for food industries	
distemper, enamel paint, red	thinner, stoving thinner,	with pan masala perfume	Potato And Potato Based
oxide primer/resin, mica	thinner for epoxy paint,	Scents and perfumes	Products
based paint)	pupaint, enamel paint,	Perfume for Soap &	Alcohol from potato
Photo emulsion for rotary	thinner, acrylic paint thinner	Detergents	Dextrose powder from
screen exposing (trade name	Thinners	Perfumes/Attars	potatoes
Picture varnish	Thinners & its allied products	Petroleum and Petroleum	Ethanol full (anhydrous)
Pigments	Thinners & paints	Products, Automotive &	based on molasses & potato
Powder coating chamber type	hased)	Industrial Lubricants,	Frozen finger chip
Powder coating manufacturing	Thinners (white spirit based)	Refining, Lube Oil, Brake	Imfl (whisky) from potatoes
Powder coating paint	Thinners and paints	Fluid, Wax Products,	Liquid glucose Retable beer (alcobelic) based
Powder paint for powder	Toner ink	Paraffin Wax, Polishes,	on potato & barley/malt
coating	Vacuum metallizing lacquers	Bitumen, Base, Crude,	Potato & Onion flake Powder
Primer paint & enamel paint	Varnish (clear) for wood	Fuel, Gear, Brake Shoe,	Potato chips (automatic plant)
Primer paints, enamel paints	(flame-retarding type)	Kerosene On	Potato chips with nitrogen
& distemper	Varnish manufacture	Automotive alternator and	packing (imported machine)
Frinding inks (flexo graphic	Varnish thinner (solvent)	parts	Potato chips/wafers
IIIK) Printing inks (offsat flave °	Water beend prints	Automotive braking system	Potato granules
roto gravure)	Water based paints	Automotive engine valves	Potato Powder
Printing inks (various types)		Automotive lights and	Potato starch
Putty & water proofing paint	Wood primer	components	Sago seeds (saboo dana)
			vouka from potatoes
TERMS AND CONDITIONS			

Ask for the quotation for the required project report at eiritechnology@gmail.com or eiriprojects@gmail.com Mob: +91 9811437895 or +91 9811151047, 9289151047

ENGINEERS INDIA RESEARCH INSTITUTE

Regd. Off: 4449, Nai Sarak, Main Road, Delhi - 110 006 (India) * Ph: +91 9811437895, 9289151047, 91-11-43658117, 23918117, 45120361, * E-Mail : eiriprojects@gmail.com, eiri@eiriindia.org * Website: www.eiriindia.org, www.eiribooksandprojectreports.com Deposit the amount in "EIRI "Account with HDFC BANK CA-05532020001279 (RTGS/NEFT/IFSC CODE: HDFC00001981) OR ICICI BANK CA - 038705000994 (RTGS/IFSC CODE: ICIC0000387) OR AXIS Bank Ltd. CA - 054010200006248 (RTGS/IFSC CODE: UTIB0000054) OR UNION BAK OF INDIA CA-307201010015149 (RTGS/NEFT/IFSC CODE: UBIN0530727) OR STATE BANK OF INDIA CA-30408535340 (RTGS/IFSC CODE: SBIN0001273) & SMS ON PH. 03811437895

Hi-Tech Projects, Apr'20, www.eiriindia.org # 15

LIST OF PUBLICATIONS/BOOKS PUBLISHED BY: ENGINEERS INDIA RESEARCH INSTITUTE 4449, NAI SARAK, MAIN ROAD, DELHI - 6 (INDIA)

Name of Books Rs. US\$	Name of Books Rs. US\$	Name of Books Rs. US\$
AGRO CULTIVATION, ANIMAL	* Technology of Food	COSMETICS TECHNOLOGY
FARMING, AGRO PLANTATION &	Preservation & Processing1250/-125	(SYNTHETIC & HERBAL)
AGRO CHEMICAL/PESTICIDES/	* Food Packaging Tech 900/- 90	* Cosmetics Processes &
FLORICULTURE/ALOEVERA	Food Products 1100/- 110	Formulations HandBook 1475/- 140
* Poultry Farm & Feed Formula575/-58	* Potato & Potato Process 750/- 75	* Herbal Cosmetics & Beauty
* Hand Book of Pig Farming 400/- 40	* Technology of Maize	* Products withFormulations 950/- 95
* Agro Based H.B. of Plantation,	& Allied Corn Products 650/- 65	Manufacture of Cosmetics 950/- 95
Cultivation & Farming 500/- 75	* Technology of Food	* Synthetic&Herbal Cosmetic 975/- 98
Cultivation & Farming 475/- 50	* Complete Book on Banana	* Tech of Herbal Cosmetics &
* Agro Chemical Industries	Cultivation. Dehvdration	ToiletriesProducts/Formulae1100/-
(Insecticide & Pesticides) 900/- 90	Ripening, Processing,	* Start Your Own Hair Shampoos
* Technology of Modern Rice	Products & Packaging Tech975/- 100	and Conditioners with Manufacturing Processes 900/- 90
Milling and Basmati Rice 600/- 60	* Agro Food Processing	* Manufacturing Processes And
* Hand Book of Goat Farming450/- 50	and Packaging Technology1100/-110	Formulations Of Cleansing
(Flowers Growing Technlay)1000/- 100	Processing/Dehydration 1100/- 110	Creams, Baby Products, Face
* Aloe Vera Cultivation.	* Technology of Food	Powders 975/- 98
Processings, Formulations and	Chemicals, Pigments	* Formulations & Mfg. Processes
Manufacturing Technology 2500/-250	& Food Aroma Compd. 1100/- 110	of vanishing all Purpose900/- 90
DAIRY FARM MILK PROCESSING	* Modern Technology of Agro	OILSEEDS AND FATS
	Processing & Food Packaging Broducts with Project	* Hand Book of Oils, Fats and
	Profiles 1100/- 110	Derivatives with Refining &
* Dairy Formulations, Processes &		Packaging Technology 950/- 95
Milk Processing Industries 750/- 75	CHICKEN MEAT TECHNOLOGY	* lechnology of Uilseeds
Products Industries 950/- 95	CHICKEN MEAT TECHNOLOGY	and Refining 1400/- 140
* Dairy Farming to Produce Milk	* Technology of Chicken Meat	
with Packaging 475/- 50	and Poultry Products 1/50/-1/5	ESSENTIAL OILS & AROMATIC
* Hand Book of Ice Cream	Broiler Production 975/-100	& Aromatic Plants 650/- 65
Technology and Formulae 750/- 75	* Fresh processed meat & coated	* Modern Technology of
* Hand Book of Milk Processing,	poultry products with	Essential Oils 850/- 85
Technology 1675/-165	manufacturing of dried meat	 * Technology of Perfumes,
* Dairy Farming for Milk	emulsions and curing of	Flavours & Essential Oils 1175/- 120
Production Technology 975/- 100	* Poultry Farm/Feed Formulae 575/- 60	* Essential Olis Processes
* Commercial Dairy Farming		DEPENMES AND EL AVOURS
with Project Profiles 750/- 75	WOOD, PLYWOOD, PARTICLE,	* Hand Book of Elayours &
HERBS CULTIVATION/MEDICINES	BOARD, BAMBOO & FOREST	Food Colourants Technoly1400/-140
* Herbs, Medicinal & Aromatic	* Modern Technology of Wood,	* H. B. of Perfume & Flavours 975/-98
Plants Cultivation 650/- 65	Veneer, Plywood, Particle	* Hand Book of Perfumes
* Aushidhi and Sungndhit	Board, Fibreboard, Bamboo	with Formulations (2ndEdn.)900/-75
Paudho Ka Vaysayik (Hindi)800/- 80	& Forest Products 1600/- 160	Flavours & Essential Oils 1175/- 120
and Biodiesel (Jatropha) 1100/- 110	SOAP, DETERGENT & ACID SLURRY	* Complete Technology Book on
* Hand Book of Medicinal &	* Household Soap.Toilet	Perfumes, Agarbatti, Dhoopbatti,
Aromatic Plants 875/- 90	Soap & Other Soap 750/- 75	Attar and other Products
FOOD & AGRO PROCESS, TOMATO	* Soaps & Detergents 750/- 75	Manufacturing & Formulations
PROCESSING, PRESERVATION,	* Synthetic Detergents 975/- 90	WITH Project Profiles 950 95 * H B of Elayours Toch 750/- 75
DEHYDRATION, FRUIT BEVERAGE,	* Acid Slurry, Surfactants, Soap	* Manufacture Of Perfumes.
POTATO, MAIZE, MEAT, BANANA	* Complete Tech Book on	Fragrances, Scents, Essences
* Fruits & Vegetable Processing	Detergents with Formula 950/- 95	And Incense Sticks (Agarbatti)
Hand Book (2nd Edn.) 900/- 75	* Manufacture of Washing	With Formulations 975/- 98
* Fruit Beverage & Processing	Soap, Toilet Soap, Detergent	SOLAR PV PANELS, ENERGY
with Mango 750/- 75	Powders, Liquid Soap & Herbal	* Tech Of Solar Py Panels Energy
Based Industries (2nd Edn.)975/-100	* Mfg Tech of Surfactante	Cells, Lantern, Cooler, Light
* Preservation & Canning of	Washing Powders, Optical	System, Photovoltaic System,
Fruits and Vegetables 1200/- 120	Brighteners & Chelating 1275 125	Power Plant, Water Heater,
* Hand Book of Food	* Complete Tec. Book on Soaps,	Collector, Solar Cooling,
Denydration & Drying 1100/- 110	Detergents, Cleaners &	Refrigeration, Solar Drying, Home System Dish Engine &
Products Hand Book 1275/- 127	Fragrance with Formulae 1100/ 110	Other Solar Products Mfg.1250/- 125
12/5/- 12/		

AVAILABLE PROCESS	TECHNOLOGY BOOKS AT	www.eiriindia.org
Name of Books Rs	Name of Books Rs.	Name of Books Rs. US\$
CHEMICALS, DYES, LUBRICATING	PACKAGED DRINKING WATER	* Moulds Design & Processing
OILS, PETRO CHEMICALS	* Technology of Water and	Hand Book 495/- 50
ELECTROPLATING	Packaged Drinking Water 1100/- 110 *	Hand Book of Plastic Materials
* Small Medium & Large Chamical Industrias 375/ 40	PRINTING & PACKAGING	& Processing lechnology /50/- /5
* Industrial Chemicals	* Complete Hand Book on Packaging	* Plastic Processing &
Technology Hand Book 1100/-110	* Printing Process Tech&Indt. 375/- 40	Packaging Industries 975/-100
* Modern Technology of	* Hand Book of Printing Technology	* Plastic Waste Recycling Tech.750/-75
Organic & Inorganic	(Offset, Screen, Flexo, Gravure,	Botational Moulding Technology
* Electroplating, Anodizing &	Inkjet & Digital) 975/-100	HandBook 750/- 75
Surface Finishing Tech. 1100/-110	Technology 500/- 50	* Plastic Compounding, Master
* Hand Book of Agro Chemical	* Screen Printing with	Batches, PET & Other Plastics750/-75
Indust.(Insecticide/Pesticide)900/- 90	Processes & Technology 350/- 35	with Formulations 800/- 80
Pigments Intermediates 1100/-110	* Hand Book of Prepress 800/- 80	* Technology of PVC Compounding
* Petrochemicals, Lubricants,	* Modern Packaging Technology	& Its Applications 900/- 90
Greases & Petroleum Refining900/-90	for Processing Food, Bakery,	Polymer & Plastic Technology950/-90
* H.B.of Lubricants, Greases &	Snack Foods, Spices and	H.B. of Fibre Glass Moulding450/-45
CUMS ADJESIVES & SEALANTS	Allied Food Products 900/- 90	* Plastic Additives Technology 950/- 95
GUMS, ADHESIVES & SEALANTS	* Tech, of Printing Inks 1150/-115	* Technology of PET Bottles,
 Lechnology of Gums, Adnesives & Sealants with Formulations950/-95 	* Packaging Technoloy 1150/-115	Preform and PET Recycling 850/- 85
* Hand Book of Adhesives	* Corrugated Boxes 1100/-110	* Modern Technology of
with their Formulae (2ndEdn.)900/-65	PAINT, VARNISH, SOLVENTS,	* Technology of Synthetic
* Adhesives Technology &	POWDER COATING & LACQUERS	Resins & Emulsion Polymers975/-100
* Technology of Glue &	* Paint Pigment Varnish &	Technology of Plastic Additives
Adhesives with Adhesives	Lacquer Manufacturing 450/- 45	with Processes & Packaging 900/- 90
Bonding & Formulations 1100/-110	* Paint Varnish Solvents	Identification Of Plastics And
* Complete Hand Book on	& Coating lechnology 800/- 80	Plastic Products Materials 975/-100
Adhesives and Adhesion	Coating, Emulsion, Paint	Identification Of Plastics & Other
SMALL SCALE INDUSTRIES	Additives & Formulations 950/- 95	Plastic Process Industries 950/- 95
SMALL SCALE INDUSTRIES,	* Technology of Coatings, Resins,	Of Plastic Processing And
CANDLES & EXPORT BUSINESS	* Mfg Tech & Formulations H B	Recycling Of Plastics With
* Start Your Own Export	on Thinners, Putty, Wall & Indu.	Project Profiles 1250/-125
Business (How To Export) 450/- 45	Finishes & Synthetic Resins 900/- 90	Complete Hand Book Of Blow
* Start Your Own Small	* Technology of Synthetic Resins &	Moulding Plastics lechnology With Project Profiles 975/- 98/-
Business and Industry 350/- 35	Emulsion Polymers 975/-100	* Modern Technology Of Injection
* Candle Making Processes &	Coating with Formulations 1750/-175	Moulding, Blow Moulding, Plastic
* Stationery. Paper Converting	* Powder Coating Technology 750/- 75	Extrusion,Pet & Other 975/-100
& Packaging Industries 400/- 40	* Paint Technology Hand Book	BEE-KEEPING & HONEY
* Modern Inks Formulaes &	with Formulations (Acrylic Emulsion, Powder Costing, Level	PROCESSING
Manufacturing Industries 325/- 35	ling Agents, PU Ink Binders,	* Tech Book On Beekeeping And
Start for Entrepreneurs 400/- 40	Dispersing Agents,Formaldehyde,	Honey Products With
* Modern Small & Cottage	Polyester Resin, Acrylic Binders	Project Profiles 975/- 98 Complete Technology Book on
Scale Industries 650/- 65	and PU Coatings) 1100/- 110	Honey Processing and
* Profitable Small Cottage Tiny	Varnish, Resins, Copolymers and	Formulations (Harvesting,
RIO ELIEL RIO CAS 8	Coatings with Manufacturing	Extraction, Adulteration,
BIOPROCESSING	Process, Formulations/Tech 900/-90/-	Chemistry, Crystallization, Fermentation Dried Honey
* Technology of Bio-Fuel	- Manufacture Of Nitrocellulose	Uses, Applications and
(Ethanol & Biodiesel) 975/-100	Metallizing Lacquers And Other	Properties) 1100/- 110
* Mod.Tech.of Bioprocessing1475/-150	Lacquers With Formulations	Modern Bee Keeping &
* ModTech.of BioGas Production1975/-	And Project Profiles 750/- 75/-	noney Processing 375/- 40
SWEETS, NAMKEEN & SNACK		STARCH MANUFACTURING
* Tech of Sweets (Mithai) 1050/-110		Taskaslanu of Starsh
* Technology of Sweets (Mithai),	MOULDING PLASTIC FILM FIBRE	Manufacturing (Applications
with Formulae 1750/- 175	GLASS. PLASTIC WASTE	Properties and Composition)
* Mfr. of Snacks Food, Namkeen,	RECYCLING, MOULDS, PET &	with Project Profiles 1100/- 110
Pappad & Potato Products 900/- 90	RESINS, ADDITIVES INDUSTRIES	

SPICE, SEASONING, CONDIMENTS	MINERAL AND MINERALS	ORGANIC FARMING & FOOD/NEEM
& COLD STORAGE	* Hand Book of Minerals and Minorals Based Industries 975/- 100	* Hand Book of Organic Farming
* Technology of Spices and		and Organic Foods with Vermi-
Formulae 975/- 98	RUBBER CHEMICALS,	
* Technology Of Spices (Masala)		FISH FARMING & FISHERT PRODUCTS
And Condiments With Project	Rubber Chemicals & Processing Industries 400/- 40	* Hand Book of Fish Farming
Extrn. Composition etc) 1100/-110	* Modern Rubber Chemicals,	
* Spices & Packaging with	Compounds & Rubber	TEXTILE AUXILIARY & CHEMICALS
Formula 900/- 90	* Technology of Rubber &	* Textile Auxiliaries & Chemicals with Processes/Formula, 1050/- 105
NON WOVEN TECHNOLOGY	Rubber Goods Industries 900/- 90	* Tech of Textile Chemicals
* Complete Tech of Nonwovens	AYURVEDIC/HERBAL MEDICINES	with Formulations 1450/- 145
Fabrics, CarryBags, Composite,	* Ayurvedic & Herbal	 Modern Technology of Textile Auxiliary and chemicals
Geotextiles, Medical Textiles,	Medicines with Formulaes 750/- 75	with formulations 1100/- 110
and Absorbent Nonwoven1175/- 120	Medicines with Formulations 900/-90	* Textile Processing Chemicals,
PHARMACEUTICALS & DRUGS	STAINLESS STEEL, NON FERROUS	Enzymes, Dye Fixing Agents and Other Finishes with
* Tablets, capsules, Injectables,	METALS, BILLETS & ROLLING MILL	Project Profiles 1275/- 125
Dry Strups, Oral & External	* Modern Technology of Non	DISINFECTANTS, CLEANERS,
Preparations, Eye, Ear1575/- 155	Extraction 1100/-110	PHENYL, DEODORANTS,
	* Processing Technology of	DISHWASHING DETERGENTS ETC.
LEATHER PRODUCTS	Steels and Stainless Steels 1900/-190	* Manufacture of Disinfectants,
* Hand Book of Leather &	Rolling Mill, Billets, Steel	Deodorants, Dishwashing
	Wire, Galvanized Sheet,	Detergents with Formulae 900/- 90
BIOTECHNOLOGY	Forging & Castings 2500/-250 * Mfg Tech of Non-Ferrous	COFFEE & COFFEE PROCESSING
* Hand Book of Biotechnology900/-90	Metal Products 1750/- 175	* Coffee & Coffee Processing 525/- 53
CERAMICS & CERAMIC PROCESS	FOOD ADDITIVES/CHEMICALS AND	
* H.B.of Ceramics & Ceramics Processing Technology 1975/- 200	SWEETENERS & FOOD EMULSIFIERS	* Onion Cultivation Dehydration
* Modern Tech Of Ceramic	Additives. Sweeteners and	Flakes, Powder, Processing
Products With Composition 1100/- 110	Food Emulsifiers 1575/- 156	& Packaging Technology 975/- 98
TREE FARMING	* Technology of Food Chemicals Pigments and	BUILDING MATERIAL & CHEMICALS
* Hand Book of Tree Farming 800/-80	Food Aroma Compounds 1100/- 110	* Technology of Building Materials
MUSHROOM PROCESSING	DISPOSABLE MEDICAL PRODUCTS	& Chemicals with Processes950/- 95
* Hand Book of Mushroom	* Technology of Disposable	* Mod. Tech. of Bleaching, Dveing.
Cultivation, Processing & Packaging 975/- 98	Medical Products 1750/-175	Printing & Finishing of Textiles 750/-75
BIOFERTILIZERS & VERMICILI TURE	SOYA MILK, TOFU & SOY PRODUCTS	* Technology of Textiles (Spinning
* Biofertilizers & Vermiculture 900/-100	* Technology of Soya Milk, Tofu, Hydrolyzata, Alliad Soyabaan	Drying, Printing and Bleaching) 900/- 90
BIODEGRADABLE PLASTICS	Products with project Profile 975/- 100	* Garments Manufacturing Tech. 900/- 90
AND POLYMERS	* Technology of SOYBEAN	BAKERY, CONFECTIONERY,
* Modern Technology of	Products with Formulae 1100/- 100	BISCUITS, COOKIES, BREAKFAST,
Biodegradable Plastics and	PRODUCTS FROM WASTE	PASTA & CEREALS
Polymers With Processes (Bio-Plastic Starch Plastics	Wastes (Industrial, Agriculture,	* Technology of Biscuits, Rusks,
Cellulose Polymers & other) 975/- 100	Medical, Municipality, Organic	Formulations 975/- 98
* Production of Biodegradable	& Biological) By Panda 900/- 90	* Hand Book of Confectionery
Plastics & Bioplastics Tech 1500/-150	Technology Hand Book 1100/- 110	with Formulations 900/- 90 * Breakfast, Dietary Food, Pasta
FROZEN FOOD/FREEZE DRYING	WINE PRODUCTION	& Cereal Products Tech 1150/-120
* Frozen Food Processing &	* Technology of Wine	* Modern Bakery Products 900/- 90
Freeze Drying rechnology 1000/- 100 * Frozen Food Products 900/- 90	Production and Packaging 1750/- 175	Fermented Cereal Products
BEER VODKA BEVERAGE WHISKY		with Formulae 1250/-125
* Beer Cereal Based Boverages Sov	Casting Technology H.Book750/- 75	* Confectionery,Chocolates, Toffee, Candy Chewing & Bubble Gume
Beverages, Fruit Wine, Vodka, Tea	* H.B.of Pulp & Paper, Paper	Lollipop & Jelly Products 1750/-175
Beverages & Beverages 1100/- 110	Board & Paper Based Tech. 1150/- 120	* H.Book of Bakery Industries 950/-95
Whisky, Distillery Spirits,	FLOUR MILL (ATTA MAIDA, SUJI)	TECHNOLOGY OF FIBRES
Brandy, Fruit Spirits, Flavours,	* Start Your Own Wheat Flour Mill	* Fibres With Manufacturing
Maturation & Blending With Other Alcoholic Reverage 1250/- 125	(Atta, Maida, Suji, Bran	Processes & Properties With
Line / section = Devoluge 1200/- 120	a Desaily 300/- 90	