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## About Us

NPCS is a well-known technical consultancy that focuses on Project Reports Compilation, and we have been following a tight system and procedure to assure only top quality in accordance with our clients' expectations in this rapidly increasing and changing market. We've created the list of the top projects to start your own business startups.

# Highly Profitable Business Ideas for You

## Manufacturing of Liquid Hand Soap, Foam & Bath Soap

A soap is a salt of a compound, known as a fatty acid. A soap molecule has a long hydrocarbon chain with a carboxylic acid group on one end, which has ionic bond with metal ion, usually sodium or potassium. The hydrocarbon end is non polar which is highly soluble in non-polar substances and the ionic end is soluble in water. The cleaning

action of soaps because of their ability to emulsify or disperse water-insoluble materials and hold them in the suspension of water. This ability is seen from the molecular structure of soaps.

Soap is a salt of a fatty acid used in a variety of cleansing and lubricating products. In a domestic setting, soaps are surfactants usually used for washing, bathing, and other types of housekeeping. In industrial settings, soaps are used as thickeners, components of some lubricants, and precursors to catalysts. When used for

### COST ESTIMATION

#### Capacity:

Bath Soap (1 Kgs Pack 10 Pcs. : 1,000 Kgs Per Day  
Each 100 gms Size)

Liquid Hand Soap : 1,000 Kgs Per Day  
(Pack 1 Ltr. Plastic Cans)

Foaming Hand Soap : 1,000 Kgs Per Day  
(Pack 1 Ltr. Plastic Cans)

Plant & Machinery : ₹ 49 Lakhs

Cost of Project : ₹ 261 Lakhs

Rate of Return : 57%

Break Even Point : 44%

cleaning, soap solubilizes particles and grime, which can then be separated from the article being cleaned. In hand washing, as a surfactant, when lathered with a little water, soap

kills microorganisms by disorganizing their membrane lipid bilayer and denaturing their proteins. It also emulsifies oils, enabling them to be carried away by running water.

The global liquid soap market is poised to grow at a stupendous pace during the period of 2019 to 2028. This growth is attributed to rising awareness about personal hygiene among adult population from all across the world. Liquid soaps have low PH levels. This makes them gentle and suitable for all skin types including sensitive skin. Owing to all features, the global liquid soap market is witnessing stupendous demand avenues from major population in the world.

## Business Industry of Stone Plastic Composite (SPC) Flooring Tiles

Stone plastic composite (SPC), or solid polymer core for flooring tiles, is a type of rigid core used in vinyl flooring that is comprised of mostly limestone

with a mix of polyvinyl chloride and stabilizers. As a result, it's denser due to the core being 75% limestone with a 25% PVC core fused together. Rigid cores like SPC are used in modular vinyl flooring to provide dimensional stability and rigidity. The high limestone content makes SPC incredibly dense, durable, and highly resistant to impact and indentation. Stone plastic composite is waterproof, which allows it to resist cupping and

peeling. It can be installed in laundry rooms, bathrooms, basements,

kitchens, and other areas prone to moisture or temperature changes.

### COST ESTIMATION

#### Capacity

Stone Plastic Composite (SPC) Flooring Tiles : 3,000 Sq. mtr Per Day

Plant & Machinery : ₹ 408 Lakhs

Cost of Project : ₹ 1011 Lakhs

Rate of Return : 28%

Break Even Point : 65%

SPC floor is green and environmentally friendly, truly zero formaldehyde, waterproof, suitable for any place, good anti-skid performance, comfortable foot feel, comparable to solid wood flooring, wear-resistant, long service life, fire and flame retardant, suitable for geothermal, heat preservation and

energy saving, convenient and quick installation.

The Global Stone Plastic Composite Flooring Market size was estimated at USD 24.00 Billion in 2020 and expected to reach USD

27.35 Billion in 2021, at a Compound Annual Growth Rate (CAGR) 14.26% to reach USD 53.44 Billion by 2026. The growing demand of the product due to zero formaldehyde emissions, stain-resistance, anti-slippage,

superior stability, fire-resistance and others, increasing number of construction activities along with growth of the construction industry across the globe, easy availability of the affordable and well as rigid

product are some of the major as well as impactful factors which will likely to augment the growth of the stone plastic composite flooring market in the projected timeframe of 2021-2028.

## Manufacturing Industry of Men's Undergarment (EOU)

**U**nderwear are clothes worn under other clothes, often next to the skin. They keep outer clothes from being made dirty by sweat. They also shape the body and provide support for parts of it, and in cold weather help the wearer to keep warm. Underwear can be used to protect the wearer's modesty, as well as to make them look sexy. Special types of underwear have religious importance. Some items

COST ESTIMATION	
<b>Capacity:</b>	
<i>Men's Briefs</i>	: 10,000 Pcs Per Day
<i>Sports Briefs</i>	: 10,000 Pcs Per Day
<i>Men's Boxers</i>	: 10,000 Pcs Per Day
<b>Plant &amp; Machinery</b>	: ₹ 239 Lakhs
<b>Cost of Project</b>	: ₹ 1656 Lakhs
<b>Rate of Return</b>	: 27%
<b>Break Even Point</b>	: 52%

of clothing are made to be worn as underwear, while others such as T-shirts and certain types of shorts can be used both as underwear and as outer clothing. If made of suitable fabric, some types of underwear can serve as nightwear or swimsuits. Underwear is one of the most private and personal decisions in menswear because only very few people will see it, yet it is worn every day, all day, right next to the skin. As such, comfort is paramount in underwear and while many men prefer one kind of underwear, it makes more sense to choose the style based on the day's activity.

The global men's underwear

market is projected to surpass US\$ 16.5 billion by the end of 2027, in terms of revenue, growing at CAGR of 5.8% during the forecast period (2020 to 2027). Increasing penetration of organized retail around the globe is expected to drive the market growth of the men's underwear. Growing disposable income of the population and an increasing metrosexual male population that are increasing spending on fashion products is expected to fuel the market growth of men's underwear. Growing demand for underwear as a necessity and for comfort reasons is further expected to augment the market growth of the men's underwear.

## Start Assembling of Lithium Ion Battery (Battery Assembly)

**A** lithium-ion battery or Li-ion battery is a type of rechargeable battery in which lithium ions move from the negative electrode through an electrolyte to the positive electrode during discharge, and back when charging. Li-ion batteries use an intercalated lithium compound as the material at the positive electrode and typically graphite at the negative electrode. Li-ion batteries have a high energy density, no memory effect (other than LFP cells) and low self-discharge. Cells can be manufactured to either prioritize energy or power density. They can however be a safety hazard since they contain flammable electrolytes, and if damaged

or incorrectly charged can lead to explosions and fires.

The global lithium-ion battery market size is projected to grow from USD 41.1 billion in 2021 to USD 116.6 billion by 2030; it is expected to grow at a CAGR of 12.3% from 2021 to 2030. The growth of the market is attributed to the growing demand for the lithium-ion battery in Electric Vehicles (EVs) and grid storage as it offers high-energy density solutions and lightweight. The subsequent increase in the registration of EVs and a decrease in the price of the lithium-ion battery is estimated to expand market size over the forecast period. Also, a surge in sales of EVs and a change in user preferences are likely to drive market growth. The mounting number of photovoltaic installations and nuclear power plants, along with the beginning of the wind energy proj-

COST ESTIMATION	
<b>Capacity:</b>	
<i>48 Volt, 60 AH Lithium-Ion Battery Pack</i>	: 10 Nos Per Day
<i>48 Volt, 80 AH Lithium-Ion Battery Pack</i>	: 10 Nos Per Day
<i>48 Volt, 100 AH Lithium-Ion Battery Pack</i>	: 10 Nos Per Day
<i>60 Volt, 20 AH Lithium-Ion Battery Pack</i>	: 10 Nos Per Day
<i>60 Volt, 30 AH Lithium-Ion Battery Pack</i>	: 10 Nos Per Day
<i>72 Volt, 20 AH Lithium-Ion Battery Pack</i>	: 10 Nos Per Day
<i>72 Volt, 40 AH Lithium-Ion Battery Pack</i>	: 10 Nos Per Day
<i>12.8 Volt, 8 AH Lithium-Ion Battery Pack</i>	: 10 Nos Per Day
<i>12.8 Volt, 12 AH Lithium-Ion Battery Pack</i>	: 10 Nos Per Day
<i>12.8 Volt, 20 AH Lithium-Ion Battery Pack</i>	: 10 Nos Per Day
<i>12.8 Volt, 30 AH Lithium-Ion Battery Pack</i>	: 10 Nos Per Day
<b>Plant &amp; Machinery</b>	: ₹ 165 Lakhs
<b>Cost of Project</b>	: ₹ 538 Lakhs
<b>Rate of Return</b>	: 29%
<b>Break Even Point</b>	: 67%

ects, is projected to propel market growth over the estimated period.

## Investment Opportunities in

## Waste Lubricating Oil Recycling Plant

**W**aste oil is generated from industrial and non-industrial sources and primarily contains hydrocarbons. It may also contain additives and impurities due to physical contamination and chemical reactions occurring during its use. Used oil has been used previously, and as a result of that, is now contaminated by impurities, either chemical or physical. Examples of used oil are old transmission oil, motor oil, brake fluid, hydraulic oil and gearbox oil. Used oil is a recyclable commodity, and as such, can be stored for recycling, reuse or disposal. Used oil is not considered to be a waste product.

Lubricating oils are widely used in industries to reduce friction and wear by interposing a thin film of oil between metallic surfaces. During normal use, impurities such as water, salt, dirt, metal scrapings, broken down additive components, varnish and

COST ESTIMATION	
<b>Capacity:</b>	
<i>Used Lubricating Oil</i>	: 20,000 Ltrs Per Day
<i>Spent Clay as by product</i>	: 2,105 Ltrs Per Day
<b>Plant &amp; Machinery</b>	: ₹ 127 Lakhs
<b>Cost of Project</b>	: ₹ 753 Lakhs
<b>Rate of Return</b>	: 27%
<b>Break Even Point</b>	: 50%

other materials can get mixed in with the oil or be generated in it due to thermal degradation or oxidation.

Recycling and reusing used oil is preferable to disposal and can provide great environmental benefits. Recycled used oil can be re-refined into new oil, processed into fuel oils, and used as raw

materials for the petroleum industry. Waste oil is refined oil that has been brought to be used for a variety of purposes. Several contaminants, dirt, and chemicals can be found in waste oil. Waste oil is any synthetic or petroleum-based oil that has become impure and unfit for its original purpose. It is produced mainly from crankcase and lubrication wastes. Additionally, it is also used as road oil for dust control and is sometimes mixed with pure oil to be used in boilers for the generation of electrical or heating power.

The process of refining waste oil to produce fuel or lubricant oil is currently being practiced in many areas. Waste Oil seems to be a threat to the environment because it is burned or indiscriminately dumped into the land. Refining waste oil necessarily requires proper recycling and disposal techniques, which are developed by government agencies. This helps to prevent illegal waste oil dumping and protects the environment. Emerging technologies in waste oil treatment and disposal allow for more efficient service while also lowering the risk of pollution.

## Production Industry of Calcium Carbide (CaC<sub>2</sub>)

Calcium carbide is a chemical compound with the chemical formula CaC<sub>2</sub>. It has the appearance of grayish white lumps. Calcium Carbide is also used in small carbide lamps called "Carbide Candles", which are used for blackening rifle sights to reduce glare. These "candles" are used due to the sooty flame produced by acetylene. It is also known as calcium acetylide, phenyl glyceryl ether diacetate, and glycerol phenyl ether diacetate.

Calcium carbide is a very important basic material in the organic synthesis industry. When mixed with other materials, the combination can produce acetylene, chloroprene rubber, calcium cyanamide, acetate acid, trichloroethylene, and acetaldehyde. Moreover, it can be used as a desulfuring agent in steel manufacturing and is used for metal cutting and welding. Together with calcium phosphide, calcium carbide is used in floating, self-igniting naval signal flares. Calcium Carbide has been declared as inflammable substance under the Inflammable Substances Act and the Petroleum Act has been made applicable to it. Calcium Carbide in contact with moisture generates acetylene gas which has wider range of explosives limits.

Calcium Carbide Market size is likely to grow significantly from 2019 to 2025 owing to its metallurgical and chemical applications in industries including steel manufacturing, fertilizer and metal

fabrication. Downstream application of product derivatives finds usage in automotive, pharmaceutical and plastics industry which may favor industry growth. The product is a transparent and colorless inorganic compound which is industrially produced by heating lime with coke in an electric arc furnace. The technical grade product emits unpleasant odor, reminiscent of garlic in presence of trace moisture. It is used in metallurgical processes including desulfurization and unwanted iron oxide removal.

### COST ESTIMATION Capacity

Calcium Carbide	: 60 MT Per Day
Plant & Machinery	: ₹ 2127 Lakhs
Cost of Project	: ₹ 3810 Lakhs
Rate of Return	: 28%
Break Even Point	: 68%

Calcium carbide market size may grow owing to its usage with calcium phosphide, which find application in floating and self-igniting naval flares which are used for defensive countermeasures, illumination and signaling. Flare made from calcium find preference with naval application as they can be used under water and can illuminate submerged objects. Global maritime safety market size is likely to surpass USD 35 billion by 2026 which may favor market size.

## Start Manufacturing of Medical Disposables (Gowns/Drapes)

Surgical gowns are worn by doctors and nurses in the operating theater to address a dual function of preventing transfer of microorganisms and body fluids from the operating staff to the patient, and also from patient to staff. Many of the performance requirements for surgical gowns are well documented. Surgical gowns must repel diseases and infections yet provide adequate freedom to move. They must allow necessary mobility without rubbing and chafing, and must resist tearing and linting.

A surgical drape is a covering made of a disposable non-woven material and is used to cover the area of a patient. A drape usually has a fenestration (an opening) to allow the surgeon to perform the operation. It comes in various sizes depending on the type of operation for which it is used. Drapes also vary from hospital to hospital. For example, for an eye operation, a drape measuring 15 sq. in. with a fenestration measuring 3 sq. in. might be sufficient, while for open heart surgery, the largest drape manufactured, a laparotomy drape which covers the entire body is required. Surgical drapes are used

to provide and maintain a bacteria-free operating environment.

Surgical Drapes and Gowns Market size was valued at USD 2.28 Billion in 2020 and is projected to reach USD 3.23 Billion by 2028, growing at a CAGR of 4.42% from 2021 to 2028. Growing number of surgical procedures due to the sport injuries, accidents, cardiac surgeries owing to a high prevalence of cardiovascular diseases and other chronic

### COST ESTIMATION

#### Capacity:

Medical Gowns	: 1,250 Pcs Per Day
Medical Drapes	: 1,250 Pcs Per Day
Plant & Machinery	: ₹ 286 Lakhs
Cost of Project	: ₹ 611 Lakhs
Rate of Return	: 26%
Break Even Point	: 53%

conditions where the surgery is being suggested as mandatory is the major factor that is driving the Surgical Drapes and Gowns market. Additionally, growing demand for the protection of patients and healthcare workers, increasing prevalence of surgical site infections is also driving the demand for the surgical gowns and drapes.

## Automated Vehicle Scrapping and Recycling Unit

Vehicle recycling is the dismantling of vehicles for spare parts. At the end of their useful life, vehicles have value as a source of spare parts and this has created a vehicle dismantling industry. The industry has various names for its business outlets including wrecking yard, auto dismantling yard, car spare parts supplier, and recently, auto or vehicle recycling. Vehicle recycling has always occurred to some degree but in recent years manufacturers have become involved in the process. A car crusher is often used to reduce

### COST ESTIMATION

Capacity	: 1000 Vehicles Per Month
Plant & Machinery	: ₹ 497 Lakhs
Cost of Project	: ₹ 2090 Lakhs
Rate of Return	: 29%
Break Even Point	: 40%

the size of the scrapped vehicle for transportation to a steel mill.

The launch of India's vehicle scrapping policy, or the "Voluntary Vehicle-Fleet Modernization Programme", seeks to usher in a new

age of what it means to own and use an automobile in India. It was unveiled in Parliament in March by Road Transport & Highways Minister Nitin Gadkari. The policy dictates that all automobiles over a certain age should be off the roads in the interest of better pollution control and safety, which new vehicles ensure. Commercial vehicles over 15 years old and personal vehicles over 20 years old are marked for scrapping — it doesn't matter if they run on diesel or petrol — if they fail an automated fitness test. These will be deregistered; the owner can choose to scrap them, but cannot use them on the road.

Recycling cars, therefore, is vital. It's also imperative to handle them properly to ensure the reduction of toxic waste in the environment. The disposal of such vehicles needs to be done by professionals who know how to dispose of hazardous substances

like gasoline, coolants, and break fluids.

**Environmental Benefits:** Steel is one of the main materials of a car; most of the components utilized to build it, including its framework, are made of steel. As iron is required to make steel, recycling vehicles helps to preserve iron ores. All waste that is produced as a by-product of refining steel is also prevented, ensuring that air pollution doesn't increase.

**Wildlife Protection:** Another thing to consider is that responsible vehicle recycling can also help to protect the local flora and fauna. Steel mining is not eco-friendly and leads to soil pollution and erosion, which means animals are unable to maintain their normal habits, not to mention they can become unhealthy as well. Land erosion also causes sediment runoff into bodies of water, which impacts water quality and wildlife proliferation.



## **Growing Business of Animal Feed** **(Cattle, Poultry Broiler, Pig & Fish Feed)**

**A**nimal feed is food given to domestic animals, especially livestock, in the course of animal husbandry. There are two basic types: fodder and forage. Used alone, the word feed more often refers to fodder. Animal feed is an important input to animal agriculture, and is frequently the main cost of the raising animals. Farms typically try to reduce cost for this food, by growing their own, grazing animals, or supplementing expensive feeds with substitutes, such as food waste like spent grain from beer brewing.

### **COST ESTIMATION**

#### **Capacity:**

<b>Cattle Feed</b>	: 33.6 MT Per Day
<b>Poultry Broiler Feed</b>	: 16.8 MT Per Day
<b>Fish Feed</b>	: 2.8 MT Per Day
<b>Pig Feed</b>	: 2.8 MT Per Day
<b>Plant &amp; Machinery</b>	: ₹ 160 Lakhs
<b>Cost of Project</b>	: ₹ 1488 Lakhs
<b>Rate of Return</b>	: 24%
<b>Break Even Point</b>	: 48%

Animal wellbeing is highly dependent on feed that reflects a well-balanced nutrition. Some modern agricultural practices, such as fattening cows on grains or in feed lots, have detrimental effects on the environment and animals. For example, increased corn or other grain in feed for cows, makes their micro biomes more acidic weakening their immune systems and making cows a more likely vector for E.coli. While other feeding practices can improve animal impacts.

The animal feed market is projected to grow at a CAGR of 4.90% to reach US\$460.322 billion by 2026, from US\$345.434 billion in 2020. Animal feeds are referred to as those products which are responsible for improving animals' health. The feed is given in various doses depending on the animal. Rapid urbanization and growing consumption of meat and other end products such as milk and eggs across different regions are driving the animal feed market growth opportunities during the forecast period. The feed helps in enhancing the animal's abilities by providing enriched nutrients along with the feedstuff, accelerating growth and weight gain and developing immunity.

## **Opportunities in Manufacturing of Solar Inverter** **(100 KVA – 1000 KVA)**

**A**solar inverter or PV inverter, is a type of electrical converter which converts the variable direct current (DC) output of a photovoltaic (PV) solar panel into a utility frequency alternating current (AC) that can be fed into a commercial electrical grid or used by a local, off-grid electrical network. It is a critical balance of system (BOS)—component in a photovoltaic system, allowing the use of ordinary AC-powered equipment. Solar power inverters have special functions adapted for use with photovoltaic arrays, including maximum power point tracking and anti-islanding protection.

Advanced solar pumping inverters convert DC voltage from the solar array into AC voltage to drive submersible pumps directly with-

out the need for batteries or other energy storage devices. By utilizing MPPT (maximum power point tracking), solar pumping inverters regulate output frequency to control the speed of the pumps in order to save the pump motor from damage. Solar pumping inverters usually have multiple ports to allow the input of DC current generated by PV arrays, one port to allow the output of AC voltage, and a further port for input from a water-level sensor.

The solar PV inverters market is expected to register a CAGR of more than 8%. The industry has also been hit severely due to a reduction in electricity consumption and declining

economic growth. However, with resuming market activities globally, the demand for the market is growing at a faster rate. Factors, such as a drop in inverter prices and the increasing solar PV installations, are expected to boost the market growth. Advancement in technology leading to solar panel manufacturing cost reduction and increase in efficiency have also been a major factor for the growth of the solar PV inverters market. However, lack of general awareness, infrastructure development costs, and recent subsidy cuts on solar panels by governments in the Asia-Pacific region has hampered the market growth.

### **COST ESTIMATION**

#### **Capacity**

<b>Solar Inverter</b>	: 15 Nos Per Day
<b>50 Hz 100 to 1000 KVA</b>	
<b>Plant &amp; Machinery</b>	: ₹ 373 Lakhs
<b>Cost of Project</b>	: ₹ 1288 Lakhs
<b>Rate of Return</b>	: 26%
<b>Break Even Point</b>	: 47%

## **Azodicarbonamide** **Using Urea & Hydrazine Hydrate**

**A**zodicarbonamide, ADCA, ADA, or azo(bis)formamide, is a chemical compound with the molecular formula C<sub>2</sub>H<sub>4</sub>O<sub>2</sub>N<sub>4</sub>. It is a yellow to orange-red, odorless, crystalline powder. It is sometimes called a 'yoga mat' chemical because of its widespread use in foamed plastics. It is prepared in two steps via treatment of urea with hydrazine to form biurea. The principal use of azodicarbonamide is in the production of foamed plastics as a blowing agent. The thermal decomposition of azodicarbonamide produces nitrogen, carbon monoxide, carbon dioxide, and ammonia gases, which are trapped in the polymer as bubbles to form a foamed article.

ADA-treated flours produce dried and more cohesive doughs than chlorine dioxide-treated flours. These dried doughs can tolerate higher absorption, show better gas-retention properties and are superior in machining properties. The bread made from ADA-treated flour is characterized by increased loaf volume and improved grain texture and outside appearance. Azodicarbonamide does not accelerate the onset of rancidity in flour. Natural or

enrichment vitamins are unaffected by azodicarbonamide.

The global azodicarbonamide market is expected to register growth over the forecast period owing to rising demand for quality products of plastic and rubber parts for daily usage. It serves multipurpose for the chemical industry by playing a pivotal role in strengthening, softening, and bringing elasticity to the product it is mixed with. Significantly, it is used

as a whitening conditioner for bread dough.

As a blowing agent, it is used in plastics, synthetics leather, and other industries. Pure azodicar-

### **COST ESTIMATION**

#### **Capacity:**

<b>Azodicarbonamide Powder</b>	: 40 MT Per Day
<b>Ammonia</b>	: 10.6 MT Per Day
<b>Hydrochloric Acid (38% Conc.)</b>	: 20.1 MT Per Day
<b>Plant &amp; Machinery</b>	: ₹ 1951 Lakhs
<b>Cost of Project</b>	: ₹ 3109 Lakhs
<b>Rate of Return</b>	: 25%
<b>Break Even Point</b>	: 50%

in production of foam-based plastics such as toys, sports shoes, shoe soles, floor mats, etc. Azodicarbonamide is a chemical compound which ranges in color from yellow to orange red, odorless by nature and is in form of crystalline powder. It is extensively used as a blowing agent, food additive, and a foaming agent. It is basically used in rubber and plastic products such as yoga mats. Thus, it is commercially practiced by bak-

bonamide usually reacts approximately around 200 °C. While using it for plastics, leather and other utilities it contains additives that strengthen the reaction or react at lower temperatures. As a food additive, it is used as a flour bleaching agent and a dough conditioner. As an oxidizing agent, it reacts with moist flour. The secondary reaction products include semicarbazide and ethyl carbamate.

## Production of Printed Circuit Board (PCB) Multilayer

**P**CB or Printed Circuit Board, came into existence about a century ago, as an idea to get rid of these complex wirings. The PCB electrically connects electric components using copper tracks drawn using hands or designed in the computer using different methods. It also provides mechanical support to the components and provides isolation to the layer. The PCB uses a non-conductive substrate as isolation between two or more etched and laminated copper sheets. They are generally

COST ESTIMATION Capacity	
Standard Printed Circuit Board (FR4, HDI, High-TG, Thick Copper and Halogen-free)	: 60 Sq.Mt. Per Day
Plant & Machinery	: ₹ 1258 Lakhs
Cost of Project	: ₹ 1894 Lakhs
Rate of Return	: 26%
Break Even Point	: 50%

classified as single layer, Double layer, and Multi-Layer PCBs.

Printed circuit board (PCB) is base of any electronics/electrical equipment. A PCB provides the connectivity to the electronic component such as resistor, capacitor, coils, pots, diodes, FET, transistor, ICs, transformer etc. to form a complete electronic circuit. In the present scenario, the

existence of electronics equipment's cannot be imagined without a PCB. The PCBs are not only providing the connectivity among the electronic components but also reduces the size and increases the efficiency of the electronic equipment.

A printed circuit board (PCB) mechanically supports and electrically connects electrical or electronic components using conductive tracks, pads and other features etched from one or more sheet layers of copper laminated onto and/or between sheet layers of a non-conductive substrate. Components are generally soldered onto the PCB to both electrically connect and mechanically fasten them to it.

The Printed Circuit Board market forecast to reach \$72.3 billion by 2026, growing at a CAGR of 5.3%

from 2021 to 2026. Printed circuit boards (PCBs) are the foundational building block of most modern electronic devices. PCBs consist of printed pathways which connect different components on the PCB such as transistors, resistors, Programmable Logic Controller (PLCs), Electrolytic capacitors and integrated circuits. The PCB is used in several automotive applications such as power relays, antilock brake systems, digital displays, audio systems, engine timing systems, battery control systems and many more functions. Printed circuit boards are used in many ways in the automotive industry and have changed the way that people drive. The need for PCBs is increasing as vehicle owners and drivers demand more accessories in vehicles. A printed circuit board used in car or truck must be highly reliable and long-lasting.

## Rising Demand of Rice Husk based Biodegradable Cutlery

**B**iodegradable cutlery has emerged as a better alternative to plastics across the globe and people have been early adopters of biodegradable products. All kinds of plant biomass material such as bagasse, rice husk, coconut coir etc. are being utilized for producing eco-friendly cutlery, tableware and packaging products that could see a surge in usage in the coming decade.

COST ESTIMATION Capacity	
Biodegradable Cutlery (Per Set 6 Pcs. Flatware)	: 1,852 Sets Per Day
Plant & Machinery	: ₹ 29 Lakhs
Cost of Project	: ₹ 135 Lakhs
Rate of Return	: 26%
Break Even Point	: 67%

Rice husk is a surprisingly strong material that can withstand significant wear and tear and has a long life. Rice husk tableware is one of the most durable forms of biodegradable cutlery that can withstand temperatures of more than 100oC without getting damaged. This reusable tableware has a smooth glossy covering that is 100% natural and derived from the wax present in rice husks.

Biodegradable Cutlery a range of cutlery including knives, forks, chip forks, coffee stirrers, spoons and teaspoons made from biodegradable rise husk.

From leading manufacturers including Plastico and Vegware, the items are all food grade and come from renewable resources. Biodegradable Cutlery are fully compostable and biodegradable products that can be made from several types of natural materials such as sugarcane bagasse, bamboo, paper pulp, palm leaves, agricultural residues and other disposable material (cornstarch-based PLA plastic is also a sustainable alternative but is not capable of breaking down on its own in normal conditions).

Biodegradable cutlery has gathered groundswell of interest among consumer worldwide due to compelling environmental reasons. To that end, augmenting the popularity of biodegradable utensils are their better sustainability than plastics cutlery and the salient environmental-friendliness of biodegradable materials. In particular, biodegradable cutlery made of plant-based materials and biodegradable bio-plastics have attracted widespread attention world over. Over the years, several countries have made concerted efforts to increase the awareness about the scope of disposability of biodegradable cutlery products. The biodegradable cutlery market has also seen advancements in educating end users about the correct procedures and limitations involved. Most popularly, eco-friendly cutlery are made using corn, areca leaves, and bagasse, and rice husk.

The global biodegradable cutlery market size was accounted for USD 33.9 million, in 2018 and is projected to grow at a significant rate of CAGR of 5.9% during the 2019 to 2025. The growing awareness about hazardous impacts of non-biodegradable waste is expected to positively affect the market growth. The government has formed strict regulations for banning non-biodegradable plastic.

## Opportunities in Drinking Water with Packaging in Aluminium Beverage Cans (Mineral, Carbonated, Alkaline)

**I**t is needless to mention that water, a compound of Hydrogen and Oxygen is a precious natural gift which is very essential for survival of mankind including animals. The water used for potable purposes should be free from undesirable impurities. The water available from untreated sources such as Well, Boreholes and spring is generally not hygienic and safe for drinking. Thus it is desirable and necessary to purify the water and supply under hygienic conditions for human drinking purpose.

Drinking water, also known as potable water, is water that is safe to drink or use for food preparation. The amount of drinking water required to maintain good health varies, and depends on physical activity level, age, health-related issues, and environmental conditions. Typically in developed countries, tap water meets drinking water quality standards, even though only a small proportion is actually consumed or used in food preparation. Other typical uses include washing, toilets, and irrigation. The World Health Organization considers access to safe drinking-water a basic human right.

Mineral water is water from a mineral spring that contains various minerals, such as salts and sulphur compounds. Mineral water may usually be still or sparkling (carbonated/effervescent) according to the presence or absence of added 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 global bottled water market size was valued at USD 217.66 billion in 2020 and is expected to expand at a compound annual growth rate (CAGR) of 11.1% from 2021 to 2028. Portability, easy usage and installation process, and minimal maintenance costs are the key factors to drive the market over the next few years. Furthermore, rising consumer consciousness towards the health benefits of consuming bottled water is projected to drive market growth over the forecast period. In recent years, plain and flavored varieties of still and sparkling water have become widely popular beverages at the global level. This is an emerging megatrend and is foreseen to remain prevalent in the coming years.

COST ESTIMATION Capacity:	
Mineral Water	: 2,000 Cans Per Day
Carbonated Water	: 2,000 Cans Per Day
Alkaline Water	: 2,000 Cans Per Day
Plant & Machinery	: ₹ 186 Lakhs
Cost of Project	: ₹ 417 Lakhs
Rate of Return	: 22%
Break Even Point	: 61%

# Dairy Farming & Dairy Products (Milk, Butter, Ghee & Paneer)

**D**airy farming has been part of agriculture for thousands of years, but historically, it was usually done on a small scale on mixed farms. Specialist scale dairy farming is only viable where either a large amount of milk is required for production of more durable dairy products such as cheese, or there is a substantial market of people with cash to buy milk, but no cows of their own.

The global dairy products market is expected to grow at a CAGR of 5.2% from 2019 to reach \$645.8 billion by 2025. Dairy is defined as a business enterprise that deals with the processing and harvesting of animal milk for human consumption. Some of the common milch animals include cow, goat, buffalo, camel and sheep. The milk obtained from these animals can be consumed directly and processed into ice cream, cheese, paneer, butter,

ghee, condensed milk and yogurt. These products offer various nutrients such as calcium, proteins, zinc, magnesium, and vitamin D and B12. With widespread demand for dairy products and their

### COST ESTIMATION

#### Capacity :

Milk	: 5,000 Ltrs / Day
Butter	: 120 Kgs/ Day
Ghee	: 100 Kgs/ Day
Paneer	: 220 Kgs/ Day
Cow Urine	: 6,500 Ltrs / Day
Kande	: 2,900 Pkts/ Day
Plant & Machinery	: ₹ 276 Lakhs
Cost of Project	: ₹ 1768 Lakhs
Rate of Return	: 27%
Break Even Point	: 42%

proactive function in the global food industry, dairy plays a crucial role in the growth of the economies worldwide. Over the years, the dairy industry has witnessed improvements in product safety through specialization, modernization and consolidation. Moreover, advancements in global trade have also influenced the

profitability of dairy farms.

India has the highest livestock population in the world with 50% of the buffaloes and 20% of the world's cattle population, most of which are milch cows and milch buffaloes. India's dairy industry is considered as one of the most successful development programs in the post-Independence period. India is the world's largest milk producer, accounting for more than 13% of world's total milk production. As it is the world's largest consumer of dairy products, but consuming almost 100% of its own milk production. Dairy products are a major source of cheap and nutritious food to millions of people in India and the only acceptable source of animal protein for large vegetarian segment of Indian population, particularly among the landless, small and marginal farmers and women. In India, about three-fourth of the population live in rural areas and about 38% of them are poor. As a whole any entrepreneur can venture in this project without risk and earn profit.

# Residential Apartments

**R**esidential Apartment is a part of Housing, which has encouraging scope or development. House is a very complex term. The definition of the same has varied country-to-country and time-to-time 1981 census of India adopted following definition. Requirement for residential accommodation are different for different classes of people & depends on the income & status of the individual a highly rich family with require a luxurious building, while a poor man we satisfied with a single room house for even poor class family. A standard residential building of bungalow type with has drawing room, dining room office room, guest room, kitchen room, store, pantry, dressing room, bath-

room, front verandah, stairs etc., for other house the number of rooms may be reduced according to the requirements of many available.

### COST ESTIMATION

#### Capacity

Cost of Project	: ₹ 13771 Lakhs
Rate of Return	: 8.94%
Break Even Point	: 0.89%

The residential projects are built on vast lands and have a well-developed infrastructure to enhance life style which includes Power backup, latest firefighting devices auto door elevators,

freight lifts, Earthquake resistant structure, 24-hour water supply, auto elevators.

In recent times, with the rapidly exploding population the need for housing and the increasingly crowded cities led to the creation of suburbs. Residential are now developed to end the housing shortage, and provide a better standard of living to all sections of the society. Staying in apartments gives the residents a feeling of living in the countryside, with all the benefits of the city.

One of the biggest advantages of investing in this projects is that the cost of entry is low compared to investing in the city. Most projects are coming up at a distance from the city core and this gives the developer an advantage of lower land cost. These are viewed as a low-risk investment due to its diversification and low entry cost with larger upside potential.

# Solar Panel & Electronic Toys

**A** solar panel is a collection of solar cells. Lots of small solar cells spread over a large area can work together to provide enough power to be useful. The more light that hits a cell the more electricity it produces. Solar panel refers either to a photovoltaic module, a solar thermal energy panel, or to a set of solar photovoltaic (PV) modules electrically connected and mounted on a supporting structure. A PV module is a packaged, connected assembly of solar cells. Solar panels can be used as a component of a larger photovoltaic system to generate and supply electricity in commercial and residential applications. A single solar module can produce only a limited amount of power most installations contain multiple modules. A photovoltaic system typically includes a panel or an array of solar modules, an inverter, and sometimes a battery and/or solar tracker and interconnection wiring.

### COST ESTIMATION

#### Capacity:

Solar Panel	: 25,000 Units/Annum
Electronic Toys	: 1,500,000 Units/Annum
Plant & Machinery	: ₹ 498 Lakhs
Cost of Project	: ₹ 1348 Lakhs
Rate of Return	: 29%
Break Even Point	: 50%

The PV MARKET has been upward trend for years now. The market is expected to continue to grow until 20. The JNNSM (Jawaharlar Nehru National Solar Mission) target of 20 GW of installation by 2022 and also proactive policies from states like Gujarat are the key drivers for the growth of the solar sector in India.

Globally, China dominates the cell and module production and has about 50% MARKET share. In terms of installations, Germany leads the world with close to 50% of installations world over.

In India, there is about 1.4 GW of module manufacturing capacity and this is expected to increase in the future since the solar PV segment is one part of the entire value chain where the barriers to entry is relatively low. As a whole entrepreneurs it is your best investment.



## Production Business of Ethanol from Maize

Ethanol is commonly derived from biological feedstock's utilizing fermentation processes. During these processes, monosaccharide's are fermented to ethanol by yeast or bacteria. There are a variety of carbohydrate-containing feedstock's that yield monosaccharide's for fermentation, such as corn grain, sugarcane, wheat, sugar beet and other biomass.

Ethanol, also known as ethyl alcohol, drinking alcohol or grain alcohol, is a flammable, colorless, mildly toxic chemical compound, and is best known as the alcohol found in alcoholic beverages. In common usage, it is often referred to simply as alcohol. Its molecular formula is variously represented as EtOH, CH<sub>3</sub>CH<sub>2</sub>OH and C<sub>2</sub>H<sub>5</sub>OH or as its empirical formula C<sub>2</sub>H<sub>6</sub>O (which it shares with diethyl ether).

Ethanol has been made since ancient times by the fermentation of sugars. All beverage ethanol and more than half of industrial ethanol is still made by this process. Simple sugars are the raw material. Zymase, an enzyme from yeast, changes the simple sugars into ethanol and carbon dioxide.

Maize is a key candidate for ethanol production. It yields corn grain which is converted to ethanol. The potential for ethanol from maize lies not only in converting the grain to ethanol, but also in applying cellulose conversion technology to the pericarp that covers the grain. Cellulose conversion technology, consisting of pretreatment and hydrolysis, offers the prospect of extending conversion to other parts of the corn plant, such as corn Stover (cobs, stalks, and leaves). Significant increases in the ethanol yield per acre of maize harvested is possible if biomass from the maize residue is utilized for ethanol production. A quantitative analysis of mass balance has been carried out to address this issue. The corn cob, stalks, and leaves can be converted to fermentable sugars with cellulose processing technology that consists of pretreatment, hydrolysis, and fermentation using yeast or other microorganisms. In contrast to grain-based feedstocks, cellulose-based ethanol production requires microorganisms that are capable of producing ethanol from both glucose and xylose.

India ethanol market is projected to grow from \$ 2.50 billion in 2018 to \$ 7.38 billion by 2024, exhibiting a CAGR of 14.50% during 2019-2024, on the back of increasing ethanol use in applications such as fuel additives and beverages. Ethanol is a prominent alcoholic beverage, mainly found in beer, cider, wine, spirits and ale. Indian government is trying to reduce its dependence on imported crude oil and incentivizing Indian sugar manufacturers to produce ethanol for Oil Marketing Companies (OMCs). It is expected that ethanol production will increase by three to five folds in the future in order to meet the demand for its 20% Fuel Blending Program (FBP). Factors such as increasing alcohol consumption and changing lifestyle along with growing influence of the western culture are likely to drive the demand for ethanol in the country.

### COST ESTIMATION Capacity

Ethanol	: 60 KLtrs Per Day
Plant & Machinery	: ₹ 49 Cr.
Cost of Project	: ₹ 80 Cr.
Rate of Return	: 24%
Break Even Point	: 48%

## Haemodialysis Solution B.P and EriLite-Bicarb (Part-B)

Haemodialysis, also spelled hemodialysis, or simply dialysis, is a process of purifying the blood of a person whose kidneys are not working normally. This type of dialysis achieves the extracorporeal removal of waste products such as creatinine and urea and free water from the blood when the kidneys are in a state of kidney failure. Hemodialysis is one of three renal replacement therapies. An alternative method for extracorporeal separation of blood components such as plasma or cells is apheresis. Kidneys usually filter and remove waste products and excess fluid from the blood. Hemodialysis is a way of replacing some of the functions of kidney, if kidneys have failed, by using a machine to filter and clean blood.

Haemodialysis can be an outpatient or inpatient therapy. Routine hemodialysis is conducted in a dialysis outpatient facility, either a purpose built room in a hospital or a dedicated, stand-alone clinic. Less frequently haemodialysis is done at home. Dialysis treatments in a clinic are initiated and managed by specialized staff made up of nurses and technicians; dialysis treatments at home can be self-initiated and managed or done jointly with the assistance of a trained helper who is usually a family member.

Bicarb (Part-B) dry Bicarbonate concentrate is available in India in a dry powdered version. Bicarbonate levels used in dialysis solu-

tions are set slightly higher than normal blood levels to encourage diffusion of bicarbonate into the blood and to act as a pH buffer to neutralize the metabolic acidosis that is often present in these patients. 1:32.75:1.25 Dilution Proportioning For Bicarbonate Haemodialysis Concentrate.

Haemodialysis is the choice of renal replacement therapy for patients who need dialysis acutely, and for many patients as maintenance therapy. It provides excellent, rapid clearance of solutes. A nephrologist (a medical kidney specialist) decides when hemodialysis is needed and the various parameters for a dialysis treatment. These include frequency (how many treatments per week), length of each

treatment, and the blood and dialysis solution flow rates, as well as the size of the dialyzer. The composition of the dialysis solution is also sometimes adjusted in terms of its sodium, potassium, and bicarbonate levels. Haemodialysis can be given in hospital, in free-standing dialysis units (often called satellite units), or at home. In hospital and satellite units, nurses and dialysis assistants help with the treatment; home dialysis requires or someone else to learn how to use the machine. One may feel tired after the dialysis session, but as haemodialysis only takes place up to three times each week, the intervening days can allow a certain amount of freedom to do normal activities, although restrictions in diet and fluid intake are usually necessary.

### COST ESTIMATION

<b>Capacity:</b>	
Haemodialysis Solution B.P. Grade	: 2,000 Units Per Day
EriLite-Bicarb (Part-B) each Pack 4.063 Kgs	: 40 Units Per Day
Plant & Machinery	: ₹ 25 Lakhs
Cost of Project	: ₹ 153 Lakhs
Rate of Return	: 29%
Break Even Point	: 61%

## Natural Bamboo Fiber

The natural bamboo fibers are ranked at the fifth place of the developed natural fibers after the cotton, the wool, the silk, and the linen. Bamboos are the member of a group of woody perennials evergreen to deciduous plants of the true grass family Poaceae, which is a subfamily of Bambusoideae, from the tribe Bambuseae. The total population of bamboos in the world is represented by 80-90 genera and about 1,000-1,500 species. Plant fibers have always been contributing explicitly to the economic prosper-

ity and sustainability as they have application in almost every item used in our daily routine.

Fabrics and textiles play a vital role in meeting our basic clothing needs. Evidently, the textiles and fashion industry has emerged as a dominant sector in Indian industry. Fabrics

### COST ESTIMATION

Capacity	: 10 MT Per Day
Plant & Machinery	: ₹ 74 Lakhs
Cost of Project	: ₹ 1289 Lakhs
Rate of Return	: 29%
Break Even Point	: 33%

are closely associated with every aspect of our lives right from birth till death. A wide variety of natural fibers are used in traditional handloom/textiles. Over the last few years, with the "go green" and "organic" consciousness taking over in India, we have a many eco-conscious fashion brands committed to being 100% organic and using natural fibers.

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- Grow Rich By Starting Your Own Business..... 325/- 50
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- Profitable Cottage and Tiny Industries ..... 475/- 50

**LEATHER PROCESSING & TANNING**

- Leather Processing & Tanning Technology Handbook..... 1400/-150

**TEXTILE SPINNING, WEAVING, FINISHING AND PRINTING, PROCESSING WITH EFFLUENT TREATMENT, TEXTILE DYES & PIGMENTS, NATURAL DYES & PIGMENTS, NATURAL FIBERS, JUTE & COIR**

- The Complete Technology Book on Textile Spinning, Weaving, Finishing and Printing (3rd Rev.Edn.) ..... 1725/- 150
- The Complete Technology Book on Textile Processing with Effluent Treatment..... 1000/- 100
- Modern Technology of Textile Dyes & Pigments (2nd Rev. Edn.).. 1675/- 150
- The Complete Technology Book on Dyes and Dye Intermediates (2nd Rev. Edn.)..... 1995/- 200
- The Complete Book on Natural Dyes & Pigments..... 1100/- 125
- Handbook on Natural Dyes for Industrial Applications (Extraction of Dyestuff from flowers, Leaves, Vegetables) 2nd Rev. Edn..... 1575/- 150
- Natural Fibers Handbook with Cultivation & Uses..... 1275/- 125

## NAME OF BOOKS

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- Woollen Spinning, Weaving, Knitting, Dyeing, Bleaching and Printing Technology Handbook ..... 1100/- 125
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- The Complete Book on Textile Processing and Silk Reeling Technology ..... 1750/- 150
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- Handbook on Paints and Enamels..... 1275/- 125
- Surface Coating Technology Handbook ..... 1475/- 125
- Spirit Varnishes Technology Handbook (with Testing and Analysis) ..... 1275/- 150
- The Testing Manual of Paints, Varnishes and Resins..... 1875/- 150
- Handbook on Paint Testing Methods ..... 1575/- 150
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- The Complete Book on Water Soluble Gums and Resins ..... 1675/- 150
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- The Complete Book On Distillation And Refining of Petroleum Products (Lubricants, Waxes And Petrochemicals) ..... 975/- 100

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- Lubricating Oils, Greases and Petroleum Products Manufacturing Handbook..... 1475/- 150
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- Petroleum & Petroleum Products Technology Handbook (Thermal Cracking of Pure Saturated Hydrocarbons, Petroleum Asphalts, Refinery Products, Blending and Compounding, Oil Refining and Residual Fuel Oils)..... 1875/- 150

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- Soaps, Detergents and Disinfectants Technology Handbook (Washing Soap, Laundry Soap, Handmade Soap, Detergent Soap, Liquid Soap, Hand Wash, Liquid Detergent, Detergent Powder, Bar, Phenyl, Floor Cleaner, Toilet Cleaner, Mosquito Coils, Naphthalene Balls, Air Freshener, Hand Sanitizer and Aerosols Insecticide) (3rd Revised Edition)..... 1595/- 150

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## NAME OF BOOKS

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- The Complete Technology Book on Asbestos, Cement, Ceramics and Limestone..... 1875/- 150
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- The Complete Book on Cold Storage, Cold Chain & Warehouse (with Controlled Atmosphere Storage & Rural Godowns) 4th Revised Edition..... 1575/- 150

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Mob.: + 9097075054, 918800733955, Fax : 91-11-23845886

Website : www.niir.org www.entrepreneurindia.co

E-mail : info@niir.org , npcs.india@gmail.com



**EACH DETAILED PROJECT REPORT (BUSINESS PLAN) CONTAINS**



**Market Survey Cum Detailed Techno Economic Feasibility Reports**



**BEGINNING :** Project Introduction, Brief History of the Product, Properties, BIS (Bureau of Indian Standard) Specifications & Requirements, Uses & Applications.

**MARKET SURVEY :** Present Market Position, Expected Future Demand, Statistics of Imports & Exports, Export Prospect, Names and Addresses of Existing Units (Present Manufactures).

**PLANT & MACHINERY :** List of Plant & Machineries, Miscellaneous Items and Accessories, Instruments, Laboratory Equipments and Accessories, Plant Location, Electrification, Electric Load and Water, Maintenance, Suppliers/Manufacturers of Plant and Machineries.

**RAW MATERIAL :** List of Raw Materials, Properties of Raw Materials, Availability of Raw Materials, Required Quality of Raw Materials, Cost/Rates of Raw Materials.

**MANUFACTURING TECHNIQUES :** Formulae Detailed Process of Manufacture, Flow Sheet Diagram.

**PERSONNEL REQUIREMENTS :** Requirement of Staff & Labour, Personnel Management, Skilled & Unskilled Labour.

**LAND & BUILDING :** Requirement of Land Area, Rates of the Land, Built up Area, Construction Schedule, Plant Layout.

**FINANCIAL ASPECTS :** Cost of Raw Materials, Cost of Land & Building, Cost of Plant & Machineries, Fixed Capital Investment, Working Capital, Project Cost, Capital Formation, Cost of Production, Profitability Analysis, Break Even Point, Cash Flow Statement for 5 to 10 Years, Depreciation Chart, Conclusion, Projected Balance Sheet, Land Man Ratio.

- Prepared by highly qualified and experienced consultants and Market Research and Analyst Supported by a panel of experts and computerised data bank.
- Data provided are reliable and upto date collected from suppliers/manufacturers, plant already commissioned in India.
- NPCS Reports are very economical and immediabely available on demand where as commissioned Feasibility Studies are time consuming and costly.

**FOR ASSESSING MARKET POTENTIAL, INVESTMENT DECISION MAKING CORPORATE DIVERSIFICATION PLANNING ETC.**

**NPCS Engineers and Consultants have prepared Market Survey Cum Detailed Techno Economic Feasibility Report on the following products which are most viable and profitable.**



**Wood and Wood Products, Plywood, Board, Particle Board, Wooden Furniture, Bamboo, Engineered Wood, Forest product, Lumber, Tree, Wood Drying, Wood Plastic Composite, Door, Window, Modular Furniture, Timber, Woodworking, Decorative Laminated Sheets**

- » Activated Carbon from Bamboo
- » Bamboo Furniture
- » Bamboo Sticks
- » Black Lead Pencil
- » Broom Stick Processing Plant
- » Chip Block (Compressed Wood)
- » Chipboard Industry
- » Compressed Wood Pallets
- » Deck Wood
- » Deck Wood (Wood and Plastic Composite)
- » Decorative Laminated Sheets (Sunmica)
- » Flush Door, Chip Board, Hard Board, Insulating Board
- » Fully Automatic Match Box with Match Sticks (Wooden Match Sticks & Waxed Strips)
- » Handicraft (Cane & Bamboo)
- » Hard Board from Bagasse



- » Laminated Particle Board
- » Match Box (Automatic Plant)
- » Matchbox
- » Medium Density Fiberboard (MDF)
- » Particle Board
- » Particle Board (Wood Base)
- » Particle Board from Bagasse
- » Particle Board from Rice Husk
- » Particle Board from Wheat/Rice Straw
- » Ply Board from Bamboo
- » Ply Board from Poplar & Eucalyptus
- » Ply Board from Wood Logs
- » Plywood and Ply board
- » Pre Laminated Particle Board
- » Pre-Compressed Pressboard
- » Rubber wood Processing Plant
- » Shisham (Indian Rosewood) Plantation



- » Solid Wood Finger Jointed Boards from Pine Wood
- » Teak Wood & Meranti Doors-Solid and Semi Solid Doors
- » The English Willow Cricket Bats
- » Tripod Stands, Tables & Chairs (100% EOU)
- » Wood Chips
- » Wood Fibers (Used in MDF).
- » Wood Pellets from Saw Dust
- » Wood Plastic Composite (WPC)
- » Wood Pulp
- » Wooden Doors and Frames
- » Wooden Furniture
- » Wooden Furniture (With Mediocre Automation)
- » Wooden Laboratory Furniture
- » Wooden Pencil
- » Wooden Toothpick
- » WPC Board - Best Alternate of Wood and Plywood



**Market Survey Cum Detailed Techno Economic Feasibility Report on all above Businesses are Available. Contact :**

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## SELECTED BUSINESS IDEAS FOR RIGHT INVESTMENT

### Tomato Processing and Tomato based Products, Value added Products from Tomato: Tomato Juice, Tomato Puree, Tomato Ketchup, Tomato Chutney, Tomato Sauces, Tomato Powder, Tomato Ready-To- Eat Products, Tomato Paste, Instant Tomato Soup, Tomato Processing Unit



- » Tomato Soup Mix (Instant Food)
- » Idli Mix, Dosa Mix, Sambhar Mix, Vada Mix, Gulabjamun Mix
- » Packaging Of Tomato Paste
- » Tomato Concentrate & Ketchup



- » Tomato Ketchup, Tomato Sauce and Tomato Soup
- » Tomato Paste And Purees
- » Tomato Paste Packaging
- » Tomato Powder



- » Tomato Processing Plant-Tomato Products
- » Tomato Ketchup, Sauce and Soup
- » Tomato Pulp



### Surgical, Medical Plastics, Medical Disposables, Disposable Medical Products used in Hospitals

- » Absorbent Surgical Cotton (Cotton Rolls)
- » Black Braided Silk Surgical Suture
- » Black Braided Silk Sutures (Non-Absorbable Surgical Suture)
- » Blood Bags
- » Blood Collection Tubes (Vacutainer)
- » Cloth Surgical Adhesive Tape
- » Cotton Ball (Hospital And Cosmetic Use)
- » Disposable Face Masks
- » Disposable IV Set
- » Disposable Needles
- » Disposable Nitrile Examination Gloves- Medical Grade, Powder Free, Disposable, Non-Sterile, Food Safe, Textured
- » Disposable Personal Protective Equipment (PPE) Kit
- » Disposable Plastic Syringes
- » Disposable Plastic Syringes (2ml, 5ml, 10ml And 50ml)
- » Disposable Plastic Syringes (General Medical Devices)
- » Disposable Plastic Syringes With Needles
- » Disposable Surgical and Medical Face Mask
- » Disposable Surgical Face Mask & N95 Masks
- » Disposable Surgical Masks



- » Disposable Surgical Medical Glove
- » Disposable Syringes
- » Implantable Surgical Suture (Biomedical Textile)
- » Infusion Set and Blood Transfusion Set
- » Intravenous (IV) Cannulas
- » Intravenous Sugar Solution
- » IV Cannula
- » IV Cannula (Intravenous Cannula) and Butterfly Needles
- » IV Cannula and Catheters
- » IV Fluids (BFS Technology)
- » IV Infusion Set (IV Set)
- » Latex & Nitrile Gloves
- » Mackintosh Sheets (Hospital Rubber Sheet) and Surgical Hand Gloves
- » Medical Devices & Disposables (Disposable Plastic Syringes, Disposable Mask & Gloves, Blood Bags, X-Ray, Ultrasound, Ecg, Pacemakers, IV Fluid Sets and other Devices)
- » Medical Devices & Surgical Disposables
- » Medical Disposables: Disposable Syringes (Self Destructive) with Needles, Catheters and Mask
- » N95 Face Mask (5 Ply)
- » Nitrile, Vinyl and Latex Disposable Medical Gloves



- » Pharmaceutical Sterile Water (Sterilized Water) for Injection
- » Powder-Free Disposable Nitrile Gloves
- » Rectified Spirit
- » Sanitary Napkins
- » Silk Braided Non-Absorbable Sutures
- » Sterile Disposable Plastic Syringes
- » Surgical & Examination Latex Rubber Gloves
- » Surgical & N95 Masks
- » Surgical (Surgeons) Latex and Nitrile (NBR-Nitrile Butadiene Rubber) Gloves
- » Surgical Blade & Disposable Scalpel
- » Surgical Blades
- » Surgical Cotton & Bandages (EOU)
- » Surgical Disposable (Surgeon Gowns, Patient Gowns, Bed Sheets, Drapes, Surgeon Caps and Sheets)
- » Surgical Disposable Hospital Apparel
- » Surgical Hand Gloves and Mackintosh Sheets (Hospital Rubber Sheet)
- » Surgical Sutures Materials (Surgical Gut, Polyglactin, Polyglycolic Acid, Poliglecaprone, Polydioxanone, Nylon, Polypropylene, Polyester)
- » Vacutainer Blood Collection Tube
- » Vinyl & Latex Surgical Gloves



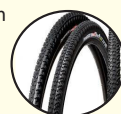
### Rubber and Rubber Products, Rubber based Industries, Natural Rubber, Synthetic Rubber, Tyre, Tire, Rubber Chemicals, Industrial Rubber Products, Rubber for Automobile, Extruded Rubber, Medical, Adhesives & Sealants, Belt, Footwear, Gloves, Injection Parts



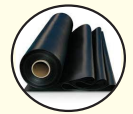
- » Auto Tubes
- » Automobile Gaskets
- » Automobile Hoses (AC Hose, Fuel Hose, Hydraulic Hose, Petrol Pump Hose) and Tyres.
- » Automobile Radial Tyres (For Cars & Trucks)
- » Automobile Tyres for Trucks, Buses and Lorries
- » Bicycle Tubes and Motorcycle Tubes



- » Bicycle Tyre & Tubes Production from Natural Rubber
- » Blood Bags
- » Butyl Reclaim Rubber
- » Butyl Rubber (IIR)
- » Butyl Rubber-Polyisobutylene Rubber
- » Carbon Black from Waste Tyres (Waste Tyre



- » Pyrolysis)
- » Closed Cell Nitrile (Silicone Rubber Insulation), Silicone Elastomer
- » Condoms
- » Condoms (Lubricated)
- » Crude Rubber Processing
- » Cycle and Van Tyre and Tubes



Market Survey Cum Detailed Techno Economic Feasibility Report on all above Businesses are Available. Contact :

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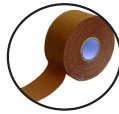
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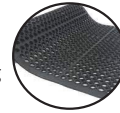
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## SELECTED BUSINESS IDEAS FOR RIGHT INVESTMENT

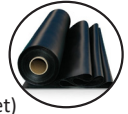
- » Disposable Nitrile Examination Gloves- Medical Grade, Powder Free, Disposable, Non-Sterile, Food Safe, Textured
- » Disposable Nitrile Gloves
- » Downhole Seals Used for Oil and Gas Industry from Synthetic Rubber
- » Elastic and Rigid Tape
- » Ethylene Propylene Rubber
- » Foam & Its Products (Mattresses, Cushions, Pillow Sheets)
- » Grinding Media Ball
- » Hard Rubber Battery Container
- » Hawaii Chappal (Footwear)
- » Heat Transfer Label for Rubber
- » Hemodialysis Blood Tubing
- » Hydraulic Hose with Crimping Facility of Hose End Fittings
- » Hydraulic Hose, Industrial and Hydraulic Hoses
- » Latex & Nitrile Gloves
- » Latex (Rubber) Foam Products
- » Latex Condom
- » Latex Rubber Threads



- » LPG Gas Pipe
- » Mackintosh Sheets (Hospital Rubber Sheet) and Surgical Hand Gloves
- » Natural Rubber Block
- » Nitrile NBR Powder Free Medical Gloves
- » Radial Tyres for Cars & Trucks
- » Reclaim Rubber
- » Reclaimed Rubber Sheet from Waste Tyre
- » Rubber Auto Parts
- » Rubber Band
- » Rubber Based Adhesives
- » Rubber Belting (V - Belts)
- » Rubber Compound Toys (Using Plaster of Paris)
- » Rubber Compounding for Automobile Industry
- » Rubber Floor Mats
- » Rubber Gaskets
- » Rubber Hose Pipe & Rubber Glazing
- » Rubber Plantation
- » Rubber Powder from Waste Tyres
- » Rubber Processing Oil



- » Rubber Reclaiming Unit
- » Rubber Reclamation
- » Rubber Roller & Ebonite Roller
- » Rubber Roller for Printing Machine
- » Rubber Sheet
- » Rubberised Cork Sheet
- » Surgical (Surgeons) Latex and Nitrile (NBR-Nitrile Butadiene Rubber) Gloves
- » Surgical and Examination Latex Rubber Gloves
- » Surgical Gloves
- » Synthetic Rubber
- » Tennis Ball (used in Playing Cricket)
- » Tennis-Ball Factory
- » Tread Rubber used for Cold Process
- » Tyre Retreading
- » Tyres
- » Tyres (For Three Wheelers and Medium Size Four Wheelers)
- » Tyres and Tubes for Bicycle and Rickshaw
- » Tyres for Truck, Lorry, Bus, Car & Cycle
- » Waste Tyre Pyrolysis



## Lucrative Business Ideas for Startup

### Profitable Production Business of Collagen Powder

**C**ollagen is the most abundant protein in our body, accounting for about one-third of its protein composition. It's one of the major building blocks of bones, skin, muscles, tendons, and ligaments. Collagen is also found in many other body parts, including blood vessels, corneas, and teeth. We can think of it as the "glue" that holds all these things together. In fact, the word comes from the Greek word "kolla," which means glue.

Collagen, which is high-value product from waste raw material such as unutilized skins of mammals, is a rigid, inextensible, fibrous protein that is the principal component of connective tissue in animals, including tendons, cartilage, bones, teeth, skin and blood vessels. As a structural protein it is mainly used to give strength to structures in the body, however, it has different functions depending on the location of the body.

There are a variety of collagen supplements available in the market these days. They may be available in the form of pills or powder depending upon the preference of the consumer. There are many sources for making this collagen. It includes collagen made from animal sources (animal parts, fish scales, bones, skin, etc.) as well as vegetarian collagen that is made from genetically modified yeast and bacteria.

Collagen supplement are dietary supplements that are used to address

#### COST ESTIMATION Capacity

Collagen Powder	: 500 Kg. Per Day
Plant & Machinery	: ₹ 1178 Lakhs
Cost of Project	: ₹ 1935 Lakhs
Rate of Return	: 28%
Break Even Point	: 53%

the deficiency of collagen in the diet. They are usually derived from bones and skin of animals and fish. They come in a variety of forms, including pills, gummies, powder, and drinks. Collagen supplements are available across the world and can be consumed without the prescription of a medical practitioner. Collagen supplements are very popular among bodybuilders and regular fitness enthusiasts as they help them maintain the health of their skin and bones.

The market is expected to reach USD 8.67 billion in 2021. The global collagen market is expected to grow at a compound annual growth rate of 9.0% from 2020 to 2028 to reach USD 16.7 billion by 2028. The growth of the collagen supplement market can be attributed to several health and beauty benefits associated with the ingestion of collagen supplement. For instance, the ingestion of collagen supplement enhances the health of skin by reducing dryness and wrinkles. It also increases muscle mass, improves bone health, and provides relief from joint pain.

### Cross-Linked Sodium Carboxymethyl Cellulose

**C**ross-linked sodium carboxymethyl cellulose is also known as crosscarmellose sodium or modified cellulose gum. Crosslinked sodium carboxymethylcellulose (CMC), crosscarmellose, is prepared by the reaction of Na-CMC with acids. The raw material is usually a high viscosity sodium CMC with a low degree of substitution. The cross-linking reduces water solubility while still allowing the material to swell (like a sponge) and absorb many times its weight in water. As a result, it provides superior drug dissolution and disintegration characteristics. Cross-linked sodium carboxymethyl cellulose is used in tablets of table-top sweeteners and dietary food supplements, as it facilitates disintegration in aqueous solutions, with a maximum level of use of 30 g/kg.

The global carboxymethyl cellulose (CMC) market was estimated at \$1,151.7 Million in 2014 and is projected to register a CAGR of 4.2% between 2015 and 2020. Carboxymethyl cellulose (CMC) or cellulose gum is a cellulose derivative

with carboxymethyl group in its chain. CMC is physiologically inert, chemically stable, odorless and tasteless substance which safe for health and environment. The growth of processed food industry, increasing pharmaceutical and cosmetics production, and the growing oil drilling activities are the major factors driving the growth of CMC market. As a whole entrepreneur can venture in this field will be successful.

#### COST ESTIMATION Capacity

Cross Linked Sodium Carboxymethyl Cellulose	: 1000 Kgs./Day
Plant & Machinery	: ₹ 34 Lakhs
Cost of Project	: ₹ 144 Lakhs
Rate of Return	: 27%
Break Even Point	: 70%

Market Survey Cum Detailed Techno Economic Feasibility Report on all above Businesses are Available. Contact :

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## Autoclaved Aerated Concrete Blocks (AAC Blocks)

**A**utoclaved Aerated Concrete (AAC) is a non-combustible, lime-based, cementitious building material that is expanding into new worldwide markets. In our country aerated techniques have been developed for about 40 years, and its technique skills and equipments are becoming mature.

The AAC has the features of light bulk density, good thermal insulation properties and sound-absorption, certain strength and process ability, and its raw materials is very rich, especially the reuse of fly ash enables the comprehensive utilization of industrial residue, curbs environmental pollution, no destroy on farmland, create good social and economic benefits.

### COST ESTIMATION Capacity

AAC Blocks	: 500 Cu.Mtr./Day
Plant & machinery	: ₹ 601 Lakhs
Cost of project	: ₹ 1415 Lakhs
Rate of Return	: 25%
Break Even Point	: 50%

AAC is an ideal alternative of the traditional clay brick wall materials. This is a light-weight building material produced by autoclaving a set mix of fine siliceous materials such as ground sand or fly ash and a binder like Portland cement or lime. AAC products are equally suitable for residential construction, multistory buildings, commercial, and industrial construction.

The autoclaved aerated concrete sector of the construction industry is now in the phase of a tremendous growth cycle. AAC Reduces Additional Material Use and Minimizes Waste and Pollution. The main benefits of autoclaved aerated concrete over other cladding materials are its good strength-to-weight ratio, its mobility and, because it is a non-combustible material, its fire performance. There will be phenomenal growth in autoclaved aerated industry in the near future. It is estimated that by 2025 about 66 per cent of the world population will live in urban areas on 7 per cent of the land, which means that urbanization will be on a small portion of land. This will need taller buildings and use of high strength concrete.

## Pre-Mix and Animal Feed (Poultry and Cattle)

**A**nimal production has been taking place over a long time, with the availability of compound feed being only a relatively recent innovation. This is a feed which is designed to provide the animals' daily requirement of all known nutrients, and no more, and is intended to obtain maximum levels of production with minimum wastage of nutrients and at minimum feasible cost. Compound feed mills may be linked to a

source of raw materials, such as a wheat mill or oilseed crushing plant; to a market outlet, such as a poultry or dairy enterprise; or they may be independent.

Feed Premix Market size is projected to exceed USD 10.5 billion by 2023, at more than 2.9% CAGR. Rising consumer awareness about product health benefits may drive pre-mix market. Global poultry feed premix market is expected to exceed over USD 2.1 billion by 2023, at more than 3.5% CAGR. Global aqua feed premix market is projected to exceed USD 400 million by 2023, at more than 4% CAGR. Consumption of fish and fish products is high in the aquaculture industry. This facilitates the development of new technologies and ensures a high quality product.

### COST ESTIMATION

#### Capacity:

Cattle Feed	: 64 MT/Day
Poultry Feed	: 32 MT/Day
Pre-Mix Feed	: 4 MT/Day
Plant & Machinery	: ₹ 133 Lakhs
Cost of Project	: ₹ 543 Lakhs
Rate of Return	: 68%
Break Even Point	: 37%

## Curcumin Extraction Unit

**C**urcumin is the main biologically active phytochemical compound of Turmeric. Molecular chemical formula of Curcumin: C<sub>21</sub>H<sub>20</sub>O<sub>6</sub>. The most important constituents in organic turmeric are Curcuminoid, which is approximately 6%, and the yellow coloring principles of which Curcumin constitutes 50-60%.

Curcumin market size may observe significant growth owing to pharmaceutical and cosmetic industry expansion. APAC organic cosmetic spending was over USD 2.5 million in 2014 and is estimated to

exceed USD 4 million by 2024 which should favor regional industry growth.

The production is mainly dominated by India, with over 78 percent of global output taking place in the country. India & China are the major supplier of Curcumin. The turnover of Curcumin could reach USD 94.32 million in 2022. India contributes 80% of world production and roughly 60% of export. Indian Curcumin market size accounted for over 81% of the overall Asia Pacific revenue most of these as a food coloring agent. Though Curcumin is

### COST ESTIMATION

#### Capacity:

Curcumin Powder	: 50 Kgs / Day
Turmeric Oil	: 20 Kgs / Day
Deoiled Turmeric	: 920 Kgs / Day
Plant & Machinery	: ₹ 231 Lakhs
Cost of Project	: ₹ 666 Lakhs
Rate of Return	: 21%
Break Even Point	: 48%

currently used majorly as a cosmetic but the market may witness a growth of 10% over last year, majorly driven by its role as a dietary supplements (as immunity booster & anticancer drugs). As a whole any entrepreneur can venture in this project without risk and earn profit.

## Common Facility Centre for Jute

**T**he Common Facility Centre for development and promotion of jute diversified products will generate self-employment opportunities for people and benefit the peoples in rural areas formed under various state, providing forward linkage with the market for value added products. Jute industry plays an important role in the development and promotion of jute & jute products, processes, marketing and

### COST ESTIMATION

#### Capacity:

Dyed, Laminated & Printed Jute Fabrics	: 20000 Meters/ Day
Testing of Jute & Jute Products	: 40 Nos./Day
Skilled Development Trainees	: 3 Nos./Day
Plant & Machinery	: ₹ 2252 Lakhs
Cost of Project	: ₹ 4795 Lakhs
Rate of Return	: 25%
Break Even Point	: 49%

commercialisation of technologies for the manufacture of all jute products including jute-diversified and jute technical textiles products and creating awareness of the use of this natural fibre in non-conventional applications.

Jute Textile Industry is one of the major Industries in the Eastern India, particularly in West Bengal. Jute supports around 40 Lakh farm families and provides direct employment to 2.6 Lakh Industrial Workers and 1.4 Lakh in the tertiary sector. Jute industry contributes to the export earnings in the range of Rs. 1,000 to Rs.1, 200 crore annually. As a whole any entrepreneur can venture in this project without risk and earn profit.

Market Survey Cum Detailed Techno Economic Feasibility Report on all above Businesses are Available. Contact :

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## Plastic Waste Recycling Plant

**P**lastics are made from limited resources such as petroleum, and huge advances are being made in the development of technologies to recycle plastic waste among other resources. Mechanical recycling methods to make plastic products and feedstock recycling methods that use plastic as a raw material in the chemical industry have been widely adopted, and awareness has also grown recently of the importance of Thermal recycling as a means of using plastics as an energy source to conserve petroleum resources. Recycling plastics has many benefits, it contributes to energy savings and the reduction of greenhouse gas emissions. It also saves non-renewable sources like oil and gas. Bottles made of polyethylene terephthalate (PET, sometimes PETE) can be "recycled" to reuse the material out of which they are made and to reduce the amount of waste going into landfills.

### COST ESTIMATION

#### Capacity:

<i>Plastic Granules</i>	: 2400 Kgs/Day
<i>PET Granules</i>	: 2400 Kgs/Day
<i>Plant &amp; Machinery</i>	: ₹ 97 Lakhs
<i>Cost of Project</i>	: ₹ 238 Lakhs
<i>Rate of Return</i>	: 27%
<i>Break Even Point</i>	: 55%

The Indian industry has created enough capacity to export polymers in substantial quantities. India exported close to 17% of its polymer production. The global plastic recycling market has been gaining a steady momentum over the past few years due to the growing awareness about carbon emissions and the need to reduce them. Citing this reason, the report states that the global plastic recycling market, which was valued at US\$31.5 bn in 2015 is expected to reach a figure of US\$56.8 bn by 2024. During the forecast period of 2016 and 2024, the global market is expected to progress at a CAGR of 6.9%. As a whole any entrepreneur can venture in this project without risk and earn profit.

## Municipal Waste Treatment

**M**unicipal Solid Waste management is one of the most vital issues in the contemporary urban environments particularly in developing countries. The estimated quantity of Municipal Solid Waste (MSW) generated worldwide is 1.7-1.9 billion metric tons. In many cases, municipal wastes are not well managed in developing countries, as cities and municipalities cannot cope with the accelerated pace of waste production and waste collection rates are often lower than 70 per cent in low-income countries. More than 50 per cent of the collected waste is often disposed of through uncontrolled land filling and about 15 per cent is processed through unsafe and informal recycling.

The global waste management market size is expected to reach \$530.0

billion by 2025 from \$330.6 billion in 2017, growing at a CAGR of 6.0% from 2018 to 2025. Waste management is the process of treating solid wastes, and involves different solutions to recycle items. It includes activities from its inception to final removal, such as collection, transport, treatment, and disposal of waste along with inspection and regulation.

Increase in environmental

awareness, rapid industrialization, surge in population, and rise in urbanization foster the growth of the global waste management market. In addition, implementation of stringent government norms toward open dumping is expected to fuel the waste management market growth.

The market includes domestic consumables mainly furniture, product packaging, clothing, grass clippings, bottles, newspapers, food scraps, and appliances. These scraps mainly originate from several schools, homes, hospitals, and other commercial establishments. The demand for municipal solid waste management across the residential sector will witness significant gains on account of the ongoing urbanization along with increasing consumer spending toward manufactured goods. As a whole any entrepreneur can venture in this project without risk and earn profit.

### COST ESTIMATION

#### Capacity:

<i>Organic Compost</i>	: 300 MT / Day
<i>Refuse Derivated Fuel (RDF)</i>	: 66.7 MT / Day
<i>Plastics</i>	: 20 MT / Day
<i>Inerts</i>	: 86.7 MT / Day
<i>Recyclables</i>	: 73.3 MT / Day
<i>Plant &amp; Machinery</i>	: ₹ 2038 Lakhs
<i>Cost of Project</i>	: ₹ 3239 Lakhs
<i>Rate of Return</i>	: 26%
<i>Break Even Point</i>	: 44%

## Hot Melt Glue Stick

**H**ot melt adhesive is special kind of adhesives, which can be used at high temperature and adhesion properties remain unchanged on cooling. Hot melt adhesives basically formed by compounding of synthetic polymeric resin. Synthetic polymeric resins are used polyvinyl acetate, Polyethylene acetate, Urea formaldehyde etc.

Hot Melt Adhesives Market size exceeded USD 6.60 billion, globally in 2018 and is estimated to grow at over 6.4% CAGR between 2019 and 2026. Automobile application segment held the highest share in 2018, and is expected to maintain its dominance throughout the forecast period.

Hot melt adhesives demand is attributed towards rising importance regarding disposable hygiene products and growing government initiatives to promote health & wellness among individuals. With

### COST ESTIMATION

#### Capacity:

<i>Clear Transparent Glue Stick Size 200 mmx 7 mm (LxD)</i>	: 2,000 Kgs / Day
<i>Yellow Glue Stick Size 250 mmx 11 mm (LxD)</i>	: 2,000 Kgs / Day
<i>Milky Glue Stick Size 100 mmx 7 mm (LxD)</i>	: 2,000 Kgs / Day
<i>Plant &amp; Machinery</i>	: ₹ 73 Lakhs
<i>Cost of Project</i>	: ₹ 687 Lakhs
<i>Rate of Return</i>	: 27%
<i>Break Even Point</i>	: 49%

increasing awareness for personal hygiene, consumers are looking for products with enhanced features such as better absorption and improved softness which has augmented the adoption of environment friendly disposable adhesives.

The hot melt adhesives market offers an effective solution for car-

ton closing, sealing and play a significant role in overcoming challenges such as energy efficiency and product safety. This has further enhanced its usage in food, beverage & other consumer goods packaging applications. The Adhesive Technologies business unit is a leading solution provider for adhesives, sealants and functional coatings for

consumers, craftsmen and industrial applications. Henkel offers a multitude of applications to satisfy the needs of different target groups: consumers, craftsmen and industrial businesses. In 2019, the business unit generated sales of 9,461 million euros, 47 percent of total company sales. As a whole any entrepreneur can venture in this project without risk and earn profit.

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