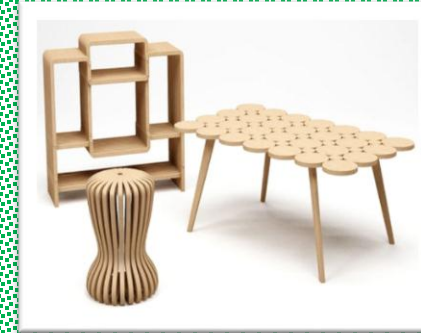


Eco Friendly, Recyclable and Biodegradable

Products

Environmentally friendly Products, Earth Friendly Products, Nature Friendly Products, Green Products

(PET Preform from PET Resin, PET Bottles and Containers from PET Resin, Paper Cups, Bamboo Furniture, Disposable Plates from Banana Leaves, Biodegradable Plastic Products, Recycling of PET, Jute Garments, Coir Mattresses, PET Bottles, Natural Food Colours, Paper Plates, Toilet Paper Roll)



Eco-friendly products are products that do not harm the environment, whether in their production, use or disposal.

Some of these going green products when in use, help conserve energy, minimize carbon footprint or the emission of greenhouse gases, and does not lead to substantial toxicity or pollution to the environment.

Other green products are biodegradable, recyclable or compostable. Hence, they do not harm the environment or upset the ecological balance when they are disposed of.

There are also ecofriendly products that are made out of recycled materials. These recycle products help reduce the need for new raw materials and the amount of waste sent to landfills and incinerators (because waste can be diverted to making recycled products).

Benefits of Eco-Friendly Products:

- **Eco-friendly products are not only safe for the environment, but they also help keeping your family protected from being exposed to any toxic chemicals. Most standard-quality products nowadays contain the use of harmful substances to a certain degree, which may potentially lead to cancer or other serious health problems. Off course, recognizing eco-friendly products that are truly as safe for the environment as they claim to be is not always easy, unless you know exactly what you are looking for.**

- **Eco friendly products are not just wants. Rather, they are equal to needs in this modern-day world where pollution, uncontrolled use of natural resources and other environmental threats are scaling new heights of depression every day.**
- **Eco friendly products are not just wants. Rather, they are equal to needs in this modern-day world where pollution, uncontrolled use of natural resources and other environmental threats are scaling new heights of depression every day.**

- **By using eco-friendly products, each person is contributing to the safety and preservation of the resources provided from the planet, such as metals, plastics, and even water. If more people use eco-friendly products, the cost of other products will go down, and it would benefit all inhabitants, human and animal.**

Market Outlook

The Indian consumer is increasingly conscious of the benefits of environmentally friendly and sustainable practices... 86% Indian consumers surveyed, place faith in energy efficient products and appliances.

India is one of the top three countries within Asia Pacific that have shown an affinity towards eco-friendly products.

Paper Plates

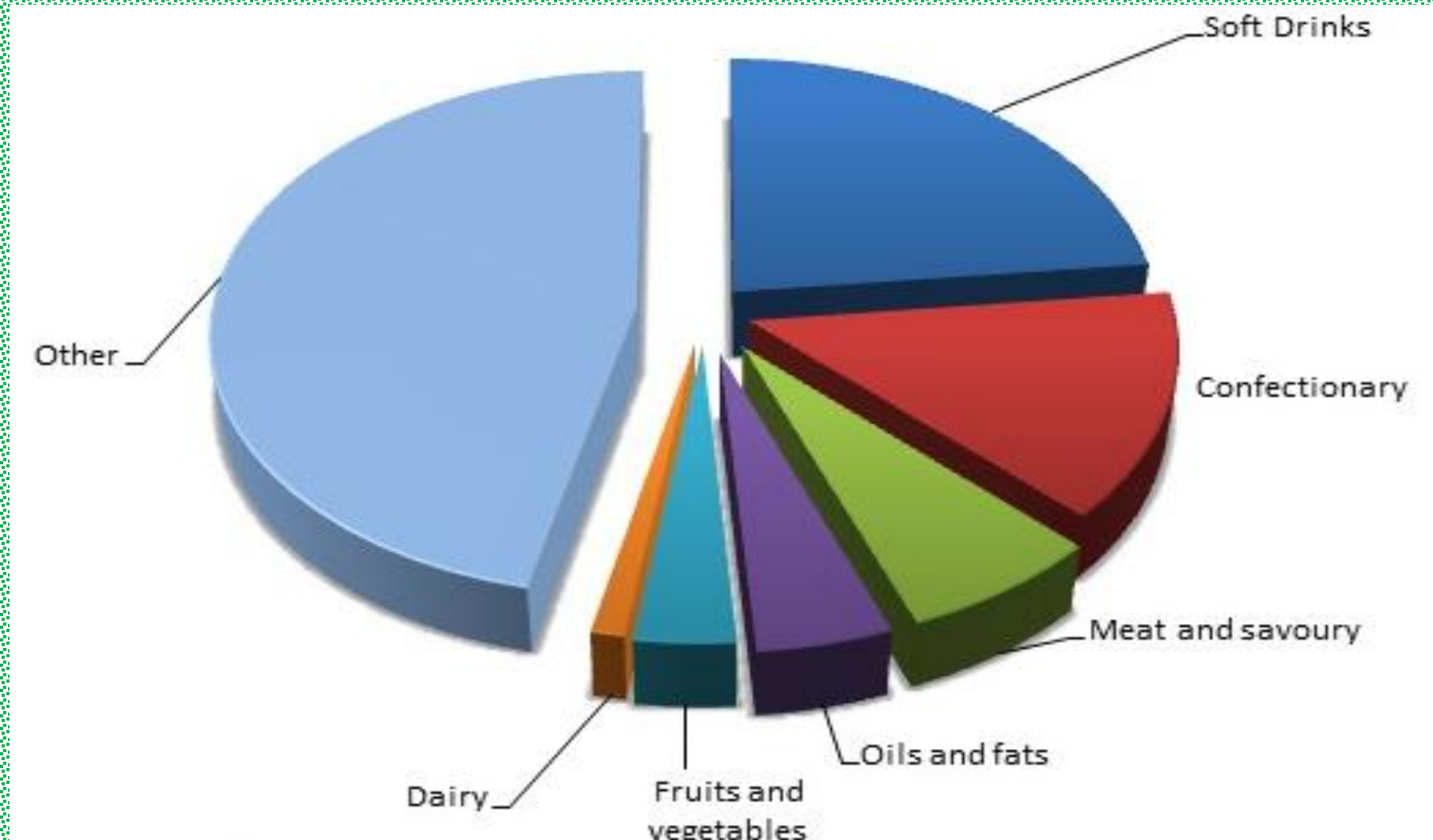
The demand for paper plates is likely to grow substantially in future both in urban as well as rural areas. Paper plates are produced from paperboards classed in the category of industrial paper. Due weightage is given to the fact that demand for boards and industrial paper is rising at a much faster rate than writing and printing paper. It has been estimated that demand for boards and industrial paper could be as high as nine per cent compared with five per cent now. According to recent data, globally, per capita paper consumption for Europe is 129 kg, Australia 116 kg, Asia 45 kg and in China it is 75 kg. In India, on the other hand, the per capita paper consumption hovers between nine and 11 kg. Even developing countries have a much higher per capita consumption as compared to India.

Natural Food Colors

Natural food colors are used to enhance the color and taste of processed or cooked food. It consists of natural extracts with zero toxic level which are environment friendly in nature. Natural food colors improve the appearance of food. Increase in demand for natural food colors is likely to decline the demand of synthetic food colors which are hazardous for the environment and for the health as well. Natural food colors are used in food, beverages and drug industries in order to restore color of the product for good appearance.

The global natural food colors market was valued at USD 1.3 Billion In 2016, and is expected to register a CAGR of 7.8% over the forecast period i.e. 2016-2023. Further the market is estimated to garner USD 2.1 Billion by 2023 on account of rising demand of natural food color in food industries and rapid expansion of food and beverages sector across the globe.

Global Natural Food Colors Market Revenue



PET

The global PET bottles market has witnessed a 7% CAGR in the last five years and this is primarily because of speedy development of FMCG sector.

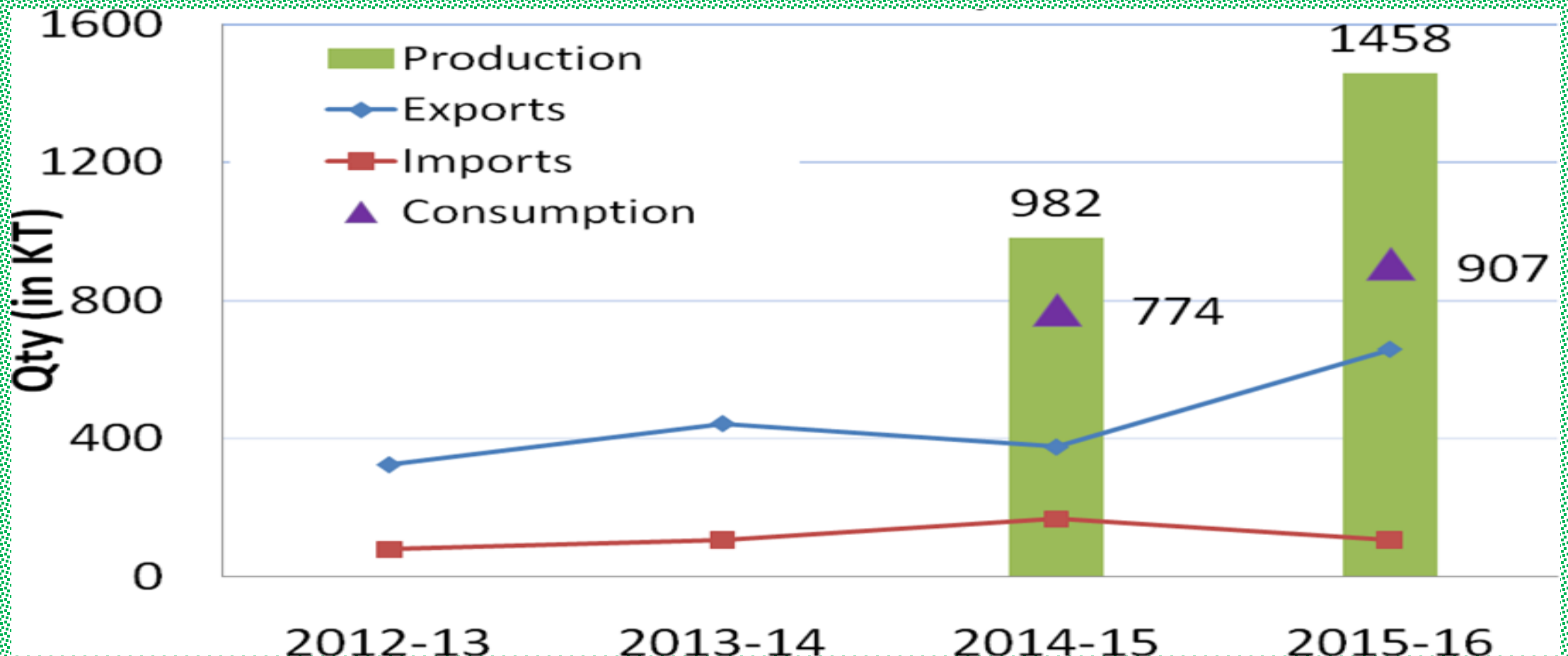
The PET resins market in India is expected to surpass USD1.9 billion in 2015.

India's PET market continues to be dominated by PET bottles, followed by PET films, sheets and chips, and the trend is expected to continue over the next five years. PET bottles are being increasingly used for packaging of bottled drinking water, carbonated soft drinks, edible oils, juices, alcoholic beverages, etc.

PET production in India has risen steadily over the years. In 2015-16, ~1,450 KT of PET was produced in India (against a total capacity of 1,976 KT), as compared to ~980 KT in 2014-15 (against a capacity of 1326 KT).

About 900 kilo tons PET was produced in India 2015-16.

PET Production, Consumption in India



Biodegradable Plastic Products

The global bio plastics market was 19.54 billion USD in 2016 and is estimated to reach US\$ 65.58 billion in 2022 at an estimated CAGR of 22.36% for the forecasted period. The market is mainly driven by increased environmental awareness and implementation of stringent environmental regulations.

Demand for bio plastics is increasing since past decade due to growing awareness concerning environmental conservation, use of bio-based or natural resources for manufacturing materials and formulation of various regulations across countries for effective use of natural resources and waste management.

Recycling of PET

Plastic recycling refers to a process that is performed either mechanically or chemically to recover plastic waste from discarded items for production of reusable plastic. 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.

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%.

Global Plastic Recycling Market Revenue



**Niir Project Consultancy Services (NPCS) can provide
Detailed Project Report**

Eco Friendly, Recyclable and Biodegradable Products

➤ Pet Preform from Pet Resin

PET (also named PETE) is a kind of polyester material for fiber, injection molded parts, as well as blow-molded bottles and jars. Special grades are offered with the required properties for the different applications.....[Read more](#)

➤ **PET Bottles and Containers from PET Resin**

Polyethylene Terephthalate (PET, PETE or polyester) is commonly used for carbonated beverage and water bottles. PET provides very good alcohol and essential oil barrier properties, generally good chemical resistance (although acetones and ketones will attack PET) and a high degree of impact resistance and tensile strength.....[Read more](#)

➤ Paper Cups

A paper cup is a disposable made out of paper and after lined with plastic or wax to prevent liquid from leakage out or soaking by paper. Paper cups are made from renewable resources. The cups should be made from food grade paper which are hygienic in nature. It is capable for holding both hot & cold liquid for longer time. The uses of paper cups have wide range....[Read more](#)

➤ **Bamboo Furniture**

The bamboos are a group of woody perennial evergreen plants in the true grass family poaceae, subfamily bambusoideae, and tribe bambuseae. Some are giant bamboo, the largest members of the grass family. Bamboo is the fastest growing woody plants in the world. Their growth rate is due to a unique rhizome-dependent system but is highly dependent on local soil and climate conditions.....[Read more](#)

➤ **Disposable Plates from Banana Leaves**

Disposable cutlery and containers are products that are a part of our day to day life. Disposable items like cups, plates, saucers are being increasingly used. Such disposable items are made with natural materials like leaf as well as man made products like paper, plastics. Leaf cups, plates have greater hygiene value.....[Read more](#)

➤ **Biodegradable Plastic Products (Bags, Plates & Glasses)**

Plastics have become an important part of modern life and are used in different sectors of applications like packaging, building materials, consumer products and much more. Most of today's plastics and synthetic polymers are produced from petrochemicals. As conventional plastics are persistent in the environment, improperly disposed plastic materials are a significant source of environmental pollution, potentially harming life.....[Read more](#)

➤ **Recycling of PET**

Recycling of waste has become a necessity for environmental as well as for economic reasons. Plastics wastes being recycled in our country for over three decades have not been in an organized and scientific way. With the availability of sophisticated recycling lines indigenously, it was felt that the recycling business will get organized, thus opening one more avenue for investment.....[Read more](#)

➤ **Jute Garments**

Jute fibre is natural fibre obtained from stalks of Plants of the genus Corchorus of the Tiliaceal family. Garments made of jute is not only soft but also good for skin as it causes no irritation. It is used as warm clothes, bed covers and also to decorate the house. The raw materials used to manufacture jute garments are jute fibre base yarn/dyes and quenching oil. Natural fibre base garments has good demands in the European country.....[Read more](#)

➤ **Pet Bottles**

With new impetus from improved technology and materials PET bottles are moving fast into glass territory. The fact that PET bottles are now offering better price/performance than glass and tin is bringing to life market sectors that were off limits only a few month ago. A number of refined edible oil brands are being packaged in and jars.....[Read more](#)

➤ **Natural Food Colours**

Dyes, colour and pigments are one of the important sections of the chemical industry. For making different food attractive to the consumer, it is required to make coloured food items. Natural pigments like chlorophyll, turmeric powder etc. has large use in the industry as it is eco-friendly and it has very small side effect. Turmeric powder is used to make yellow colour.....[Read more](#)

➤ Paper Plates

Paper crockery is finding extensive usage these days for serving in parties and functions. Paper plates are the most commonly used disposable crockery in India. Paper plates, cups & saucers are made from millboard, grey board, Kraft paper, and grease proof paper. Due to their disposable nature and attractive designs in which these are available, paper crockery like cups and plates have to a large extent replaced glass or porcelain crockery for some specific usage?....[Read more](#)

➤ Toilet Paper Roll

Tissue paper is used for direct inside part wrapping as in jewellery, liquor, fruits, florist trade and for manufacturing paper napkins, toilet papers rolls, facial tissues and neutralised paper for capacitors used in electric and electronic industries as well as manufacture of cigarette and wrapping paper. Airmail papers used for copying and printing also use tissue paper. With growing civilization, the per capita consumption of paper and paper products is increasing.....[Read more](#)

For more details visit at:

- [Eco Friendly, Recyclable and Biodegradable Products](#)
- [Handbook On 100% Export Oriented Jute & Jute Products \(Eco Friendly Projects\)](#)
- [Handbook On Bio Degradable Plastics \(Eco friendly plastics\)](#)

Major Queries/Questions Answered in our Report?

- 1. How has the industry performed so far and how will it perform in the coming years?**
- 2. What is the Project Feasibility of the Plant?**
- 3. What are the requirements of Working Capital for setting up the plant?**
- 4. What is the structure of the industry and who are the key/major players?**

- 5. What is the total project cost for setting up the plant?**
- 6. What are the operating costs for setting up the plant?**
- 7. What are the machinery and equipment requirements for setting up the plant?**
- 8. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up the plant?**
- 9. What are the requirements of raw material for setting up the plant?**

- 10. Who are the Suppliers and Manufacturers of Raw materials for setting up the plant?**
- 11. What is the Manufacturing Process of the plant?**
- 12. What is the total size of land required for setting up the plant?**
- 13. What will be the income and expenditures for the plant?**
- 14. What are the Projected Balance Sheets of the plant?**

- 15. What are the requirement of utilities and overheads for setting up the plant?**
- 16. What is the Built up Area Requirement and cost for setting up the plant?**
- 17. What are the Personnel (Manpower) Requirements for setting up the plant?**
- 18. What are Statistics of Import & Export for the Industry?**
- 19. What is the time required to break-even?**

- 20. What is the Break-Even Analysis of the plant?**
- 21. What are the Project financials of the plant?**
- 22. What are the Profitability Ratios of the plant?**
- 23. What is the Sensitivity Analysis-Price/Volume of the plant?**
- 24. What are the Projected Pay-Back Period and IRR of the plant?**
- 25. What is the Process Flow Sheet Diagram of the plant?**
- 26. What are the Market Opportunities for setting up the plant?**
- 27. What is the Market Study and Assessment for setting up the plant?**
- 28. What is the Plant Layout for setting up the plant?**

Reasons for buying our report:

- **The report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product**
- **The report provides vital information on the product like it's characteristics and segmentation**
- **The report helps you market and place the product correctly by identifying the target customer group of the product**

- **The report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials**
- **The report provides a glimpse of government regulations applicable on the industry**
- **The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions**

Our Approach:

- **Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.**
- **The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players**
- **We use reliable sources of information and databases. And information from such sources is processed by us and included in the report**

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NIIR PROJECT CONSULTANCY SERVICES

An ISO 9001:2015 Company

Who are we?

- *One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services*
- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*



What do we offer?

- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
- *Business Plan*
- *Market Research Reports*
- *Technology Books and Directory*
- *Industry Trend*
- *Databases on CD-ROM*
- *Laboratory Testing Services*
- *Turnkey Project Consultancy/Solutions*
- *Entrepreneur India (An Industrial Monthly Journal)*

How are we different ?

- *We have two decades long experience in project consultancy and market research field*
- *We empower our customers with the prerequisite know-how to take sound business decisions*
- *We help catalyze business growth by providing distinctive and profound market analysis*
- *We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors*
- *We use authentic & reliable sources to ensure business precision*



Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation

Who do we serve?

- *Public-sector Companies*
- *Corporates*
- *Government Undertakings*
- *Individual Entrepreneurs*
- *NRI's*
- *Foreign Investors*
- *Non-profit Organizations, NBFC's*
- *Educational Institutions*
- *Embassies & Consulates*
- *Consultancies*
- *Industry / trade associations*

Sectors We Cover

- *Ayurvedic And Herbal Medicines, Herbal Cosmetics*
- *Alcoholic And Non Alcoholic Beverages, Drinks*
- *Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin*
- *Activated Carbon & Activated Charcoal*
- *Aluminium And Aluminium Extrusion Profiles & Sections,*
- *Bio-fertilizers And Biotechnology*
- *Breakfast Snacks And Cereal Food*
- *Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling*

- *Bamboo And Cane Based Projects*
- *Building Materials And Construction Projects*
- *Biodegradable & Bioplastic Based Projects*
- *Chemicals (Organic And Inorganic)*
- *Confectionery, Bakery/Baking And Other Food*
- *Cereal Processing*
- *Coconut And Coconut Based Products*
- *Cold Storage For Fruits & Vegetables*
- *Coal & Coal Byproduct*

- *Copper & Copper Based Projects*
- *Dairy/Milk Processing*
- *Disinfectants, Pesticides, Insecticides, Mosquito Repellents,*
- *Electrical, Electronic And Computer based Projects*
- *Essential Oils, Oils & Fats And Allied*
- *Engineering Goods*
- *Fibre Glass & Float Glass*
- *Fast Moving Consumer Goods*
- *Food, Bakery, Agro Processing*

- *Fruits & Vegetables Processing*
- *Ferro Alloys Based Projects*
- *Fertilizers & Biofertilizers*
- *Ginger & Ginger Based Projects*
- *Herbs And Medicinal Cultivation And Jatropha (Biofuel)*
- *Hotel & Hospitality Projects*
- *Hospital Based Projects*
- *Herbal Based Projects*
- *Inks, Stationery And Export Industries*

- *Infrastructure Projects*
- *Jute & Jute Based Products*
- *Leather And Leather Based Projects*
- *Leisure & Entertainment Based Projects*
- *Livestock Farming Of Birds & Animals*
- *Minerals And Minerals*
- *Maize Processing(Wet Milling) & Maize Based Projects*
- *Medical Plastics, Disposables Plastic Syringe, Blood Bags*
- *Organic Farming, Neem Products Etc.*

- *Paints, Pigments, Varnish & Lacquer*
- *Paper And Paper Board, Paper Recycling Projects*
- *Printing Inks*
- *Packaging Based Projects*
- *Perfumes, Cosmetics And Flavours*
- *Power Generation Based Projects & Renewable Energy Based Projects*
- *Pharmaceuticals And Drugs*
- *Plantations, Farming And Cultivations*
- *Plastic Film, Plastic Waste And Plastic Compounds*
- *Plastic, PVC, PET, HDPE, LDPE Etc.*

- *Potato And Potato Based Projects*
- *Printing And Packaging*
- *Real Estate, Leisure And Hospitality*
- *Rubber And Rubber Products*
- *Soaps And Detergents*
- *Stationary Products*
- *Spices And Snacks Food*
- *Steel & Steel Products*
- *Textile Auxiliary And Chemicals*

- *Township & Residential Complex*
- *Textiles And Readymade Garments*
- *Waste Management & Recycling*
- *Wood & Wood Products*
- *Water Industry(Packaged Drinking Water & Mineral Water)*
- *Wire & Cable*

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