

Manufacturing of Recycled Polyester Fiber from used PET Bottles



Recycling Plastic Bottle into Synthetic Fiber



Introduction

Polyester may be a manmade Fibre, synthesized from petrochemical products by a process called polymerization. Polyester springs from crude oil petroleum and may be a non- natural resource. It's processed through a system called 'cracking' which treats the petroleum through intensive heating and cooling, fuel, solvents, pressure and catalysts to interrupt down the molecular structure. The most common variety of recycled polyester is understood as rPET, which comes from discarded clear plastic bottles rather than raw petrochemicals. Polyester fabric recycling, where the particular polyester yarn is recycled, is a smaller amount common. During this case, polyester scraps and textiles are broken down into Fibre components which will then be spun into the recycled yarns.

Related Projects:- [Plastics, Polymers and Resins, Polypropylene \(PP\), Polystyrene \(PS\), Acrylonitrile butadiene styrene \(ABS\), Polyethylene terephthalate \(PET\), Polyester](#)

The development of polyester fiber from recycled bottles is really a matter of re-channeling the utilization of the chemical “polyethylene terephthalate” which is additionally the chemical ingredient in PET bottles. Both polyester and PET bottles are basically made up of the chemical “polyethylene terephthalate”. It had been proven to be more cost efficient if polyester fabrics were manufactured by just recycling PET bottles, since there'll be less heating and energy required in processing the polymer ingredient.

Waste PET was depolymerized via glycolysis product was used for synthesis of latest polyester polyglot. This was used for coating application having excellent mechanical properties like as flexibility, impact resistance, scratch & hardness, good chemical resistance.

Related Books:- [Waste Management, Waste Disposal And Recycling Industry](#)

To produce a replacement material from plastic waste, PET was oligomerized by a poly-functional alcohol and mixed temp. The presence of oligomers enhanced thermal stability. PET waste is used in useful textile finishing softeners. By the high purity of virtual manner BHET, it can further converted into quaternary compound which used as softeners in textile finishing. Recycled PET doesn't adversely affect the resins properties supported recycled PET can help decrease the value of polymer end product & reduce environment pollution.

Related Projects: - [Waste Management and Recycling, Industrial Waste Management, Agro Waste](#)



Characteristics of Polyester Fibers:

Good strength

Low absorbency

Resistant to stretching and shrinking

Resistant to most chemicals

Easy to wash – Quick-drying

Crisp and resilient when wet or dry

Wrinkle and abrasion resistant

Retains heat-set pleats and creases

Related Videos:- [Plastics Projects](#)



How is Polyester Fiber from Recycled Bottles Made?

Plastic bottle wastes are going to be supplied by recycle collectors. Workers of the yarn manufacturer will need to separate the colored bottles from the clear ones while every bottle are going to be inspected if free from any foreign materials including the labels and therefore the caps.

The sorted PET bottles are going to be sterilized clean, dried and crushed into small chips still separating the clear PET bottle chips from colored PET bottle chips.

Related Books:- Plastics And Polymers, Polyester Fibers, Pet & Preform, Medical, Expanded Plastics, Polyurethane, Polyamide, Polyester Fibers



Once the chips are ready they're going to undergo heating which will enable them to pass to the spinneret until they find yourself being wound up like yarn threads in spools. The fibers are drawn into smooth strings, then go through a crimping machine which can give the polyester yarns the fluffy wooly texture. The crimped polyester yarns are going to be dried and baled and can need to pass internal control before they're considered fit selling.

Textile manufacturers will buy the polyester yarns from the yarn makers. The white yarns are going to be bleached or dyed then fed to a circular textile machine after the bleach or color has dried. The finished product is now the polyester fabric from recycled bottles.

Related Videos:- [Business Ideas for Startups](#)



However, so as to realize different textures, the polyester fabric will go through a napper machine. Here, the polyester fabric will pass through mechanized bristles which will give the fabric texture by raising the fabric's surface and shearing the raised threads with a yarn to even out the surface. The polyester fabrics from plastic bottles will become textiles like fleece wool, corduroy, velvet and other similar textiles with piled textures.



Uses and Applications

Fabrics woven or knitted from polyester thread or yarn are used extensively in apparel and residential furnishings, from shirts and pants to jackets and hats, bed sheets, blankets, upholstered furniture and electronic device mats. Industrial polyester fibers, yarns and ropes are utilized in car tyre reinforcements, fabrics for conveyor belts, safety belts, coated fabrics and plastic reinforcements with high-energy absorption. Polyester fiber is employed as cushioning and insulating material in pillows, comforters and fabric padding. Polyester fabrics are highly stain-resistant—in fact, the sole class of dyes which may be wont to alter the colour of polyester fabric are what are referred to as disperse dyes.

Related Videos: - [Waste Management and Recycling](#)

Polyesters also are wont to make bottles, films, tarpaulin, sails (Dacron), canoes, liquid displays, holograms, filters, dielectric film for capacitors, film insulation for wire and insulating tapes. Polyesters are widely used as a finish on high-quality wood products such as guitars, pianos and vehicle/yacht interiors. Thixotropic properties of spray-applicable polyesters make them ideal to be used on open-grain timbers, as they will quickly fill wood grain, with a high-build film thickness per coat. Cured polyesters are often sanded and polished to a high-gloss, durable finish.

Related Project:- [Recycled PET Polyester Fiber Manufacturing from used PET Bottles](#)



Recycled PET Fibers) are widely utilized in diversified industries like bedding, furniture, automotive, and other industrial uses. It's also used for fiber fillings (after carding process) in pillows, cushions, pillows, doll toys and sofa furniture. It are often utilized in spinning to form Polyester small stuff which is then knitted or weaved into fabrics. Hollow fibers have soft characteristics that's why it's utilized in pillows and solid fibers are utilized in non-woven e.g. floor carpet, car-roofs etc. Hollow Silicon zed fibers have the graceful finish while hollow non-silicon zed fiber features a rough finish.

Projects:- [Project Reports & Profiles](#)



Uses

- Packaged Water
- Carbonated Soft Drinks
- Food Bottles & Jars
- Non-Food Bottles & Jars
- Fruit Juice
- Beer

Use Industry:

Packaging (Bottles, Containers, Bags & Films, Strapping, Others)

Building & Construction (Carpets & Rugs, Lumber, Pipe, Furnishings, Others)

Textiles

Automotive (Batteries, Others)

Electrical & Electronics

Books:- BOOKS & DATABASES

Applications

- Pillow/Cushions
- Wadding
- Furniture
- Beverages
- Personal Care
- Consumer Goods
- Pharmaceuticals
- Food & Beverages
- Packaging
- Personal Care
- Consumer Goods
- Household Products
- Others (Textile, Construction, etc.)

Market Research: - [Market Research Report](#)

Benefits of Recycling

General Benefits

Recycling 1 ton of PET bottles saves 7.4 cubic yards of landfill space

It takes 5 recycled two-liter PET bottles to make one square foot of carpet.

PET bottles and containers are actually a form of polyester, which is why it is so easy to recycle bottles into T-shirts, sweaters and socks.

It takes 35 liter recycled PET bottles to make the soft filling inside a sleeping bag, called fiberfill.

Plastic makes up 8% of trash by weight, but is 24% of the volume

Related Project:- [Recycled PET Polyester Fiber Manufacturing from used PET Bottles](#)



Environmental Benefits

By making use of plastic waste instead of using virgin materials, recycled polyester dramatically lowers its environmental impact versus traditional polyester. Some benefits of recycled polyester:

Reduces reliance on virgin petroleum as a raw material

Diverts used plastic from landfills.

Prevents used plastic from ending up in oceans and harming marine life.

Decreases greenhouse gas emissions from creating and processing virgin polyester can be continuously recycled again and again without quality degradation.

Projects:- [Project Reports & Profiles](#)



Market Outlook

The plastic bottle recycle market is growing at a gentle rate within the near future. The market growth is driven by growing prospects for recycled plastic bottles and growing environmental concerns which creates land pollution. Recycling plastic water bottles also helps to conserve natural resources, especially oil, which may be a nonrenewable natural resources available in restricted supply. The Environmental Protection Agency (EPA) estimates that recycling one ton of plastic conserves approximately 3.8 barrels of petroleum.

Books:- [BOOKS & DATABASES](#)



Recycling plastic water bottles also help to decrease the quantity of pollution within the air and water. Many landfill facilities will destroy plastic bottles to save lots of waste, which may emit toxic pollutants or irritants into the air. The plastic resins used to manufacture water bottles also contains harmful chemicals. These harmful chemicals can penetrate into the soil or groundwater if they're ready to break down within the landfill. [Plastic](#) bottle recycling market are often classified on the premise of the sort of plastic material which incorporates polyethylene terephthalate (PET), high-density polyethylene (HDPE) and polypropylene (PP). PET is that the mostly recycled plastic material among the [plastic](#) bottles recycling market followed by HDPE and PP material.

Market Research: - [Market Research Report](#)

PET bottle recycling refers to the process of plastic waste recovery and further processing to turn them into useful products. PET bottle recycling generally encompasses the procedures of waste collection, sorting, shredding, and molding. CAGR of 5.28% in the global PET bottle recycling market over the forecast period of 2018-2023. The global PET bottle recycling market was valued at USD 4,381.3 MN in 2017 and is due to reach USD 5,933.6 MN by the end of 2023.

Recycling of plastic bottles became a significant market altogether and is carried out on a large scale. It increases the reuse of plastic material. Recycling helps to scale back pollution levels by converting them into lower grade plastic. This provides opportunities to scale back carbon dioxide emissions and therefore the quantities of waste. Moreover, advance technologies and systems for the gathering, sorting and reprocessing of recyclable plastics are creating new opportunities for recycling market.

Energy conservation, reduced greenhouse emission emissions and reduced pollution are expected to spice up the marketplace for plastic bottle recycling. Moreover, government initiatives towards recycling of plastic bottles and increased awareness among people are driving the plastic bottle recycling market. However, high operational costs hamper the expansion of the market significantly. The worldwide market is predicted to point out staggering growth. The marketplace for plastic bottles within the beverage sector is anticipated to witness growth, due to the never-ending demand for drinking water and non-alcoholic beverages. The demand for beverage is credited to consumers' propensity for specifically demanding high-quality drinking water, due to the fear of diseases as an aftermath of drinking polluted water and therefore the simple portability and convenience provided by drinking water.

Books:- [BOOKS & DATABASES](#)

The clothing industry is a heavy user of resources and an equally heavy polluter. It is a consumer industry that by its nature encourages people to buy and discard clothing according to the fashion of the day rather than in terms of durability or environmental impact. Environmental fashion, organic fashion, and recycled fabrics are attempts to alter the status quo. selects wool over recycled PET for its textiles because wool is locally produced and doesn't contain the hazardous chemicals which are present in PET.

Projects:- [Project Reports & Profiles](#)



Asia-Pacific to Witness Highest Growth

One of the main initiatives across multiple countries in the Asia-Pacific region has generally been to cut down the usage of single-use plastic bottles and packaging. But, companies might likely resort to plastic packaging to combat the pandemic's spread, putting the sustainability aspect away at this time.

The healthcare and pharmaceutical sector in China is one of the world's largest markets, primarily driven by its aging population. According to Pharmaceutical Technology, China's pharma market's size was forecasted to surge up to almost 574 billion U.S. dollars by 2022. Hence, there is a growth possibility for domestic players as they might experience an increase in demand for plastic bottles from these companies.

Related Project:- [Recycled PET Polyester Fiber Manufacturing from used PET Bottles](#)

The plastic bottles market in India is estimated to grow steadily, owing to the continually increasing consumption and industrial applications of plastic-made bottles. According to the India Brand Equity Foundation (IBEF), the market demand for plastic bottles continues to expand in the country, with plastic export of USD 7.045 billion during the period of April 2019 - January 2020. Plastic projects are anticipated to increase across several products and sectors, including beverage, food and water, pharmaceutical, household sectors.

The fastest-growing pharmaceutical businesses after the United States and is continuously concentrating on steady innovation and patented drugs. The Government of Japan is also contributing to this growth through deregulations for international companies to invest, thereby driving the country's pharmaceutical market.

Market Research: - [Market Research Report](#)

Pharmaceutical market will resume growing significantly in 2019, connected to a range of factors, such as an anticipated 10% increase in solid dose formulations from 4.7% in 2018 and constant growth for generics across all drug classes. Recognizing these needs, local pharma companies will experience an increase in demand for plastic bottles, thus stressing the growth of the market.

Books:- [BOOKS & DATABASES](#)



The Fastest-Growing Segment of the Recycled Plastics Market, **By End-Use Industry**

Packaging is estimated to be the fastest-growing end-use industry of the recycled plastics market during the forecast period. The market for packaging is increasing because recycled plastics are increasingly witnessing its usage in the food and beverage packaging, as technological advancements has made the recycled resins suitable for food applications, which was not the case, until a few years earlier.

The fastest-growing type of recycled plastics market during the forecast period (2017-2022). PET is expected to have the fastest growth as PET based recycled plastics are easy to recycle and PET bottles are the most easily sorted and collected source of used plastics.

Projects:- [Project Reports & Profiles](#)

Thus, recycling of plastics has emerged as the leading method to curb negative environmental impact and resource depletion. With the growing concern of effects of plastics pollutions, recycled plastics is fast becoming the solution to limit it, as recycling results in decrease in use of energy, material usage and improve eco-efficiency. All these factors play a significant role in driving the usage of recycled plastics.

Related Project:- [Recycled PET Polyester Fiber Manufacturing from used PET Bottles](#)



Growing Textile Industry in the Developing Countries

The global exponential population growth has led to an increased demand from the textile and the packaging industries which is the largest end use industry of recycled plastics. Owing to an explosive growth of population in the region, the packaging and the textile industry of APAC is increasing with China being a dominating market since the 1980. The major factors leading to this are: because of the development of economy, which has increased the purchasing power of consumers, thereby propelling the per-capita consumption of goods, including textiles. This industry significantly contributes to the overall GDP of the region and plays an important role in creating employment opportunities.

Related Videos: - [Waste Management and Recycling](#)

China is the largest producer and exporter of textiles and clothing because of its low production costs. Singapore is also a hub for the textiles industries in the region. Vietnam's garment and textiles industries are estimated to register an annual growth rate of 25–30%. The apparel industry of Indonesia contributes significantly to the textiles industry in APAC. Thus, the growing textiles industry in the region is expected to drive the recycled plastics market.

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Business Strengths

Point 1: Proliferation in the use of PET bottle on the back of 7 – 8 % CAGR growth coupled with low scale of recycling (about 30 – 40 %) to yield abundant feed stocks to be recycled.

Point 2: Indian Man Made Fiber (MMF): Natural fiber ratio of 41:59 to align to global ratio of 63:37 consumption. Huge scope of growth in consumption of polyester fiber.

Point 3: Raw material price for recycled PSF insulated unlike in virgin PSF which is linked to crude prices (PTA and MEG) thereby ensuring stable margins with scale up of business.

Related Books:- [Plastics And Polymers, Polyester Fibers, Pet & Preform, Medical, Expanded Plastics, Polyurethane, Polyamide, Polyester Fibers](#)

Point 4: Changing life styles and cost effectiveness led to innovative applications of the MMF. This has clearly helped to expand its market share. Such trend is likely to continue. Some of the notable ones are winter clothes, Disposables, Non-woven, technical textiles etc. Expanding market lends growth visibility

Point 5: Govt. support in terms of Excise Duty exemption for recycled PSF.

Point 6: Industry associations like CII, have launched programs to reward companies for green endeavor like recycling. In future, government shall extend benefits to such companies.

Related Projects: - [Waste Management and Recycling, Industrial Waste Management, Agro Waste](#)



Key Players:-

- ❖ A G L Polyfil Pvt. Ltd.
- ❖ Appollo Fibres Ltd.
- ❖ Arora Fibres Ltd.
- ❖ B L S Ecotech Ltd.
- ❖ Bombay Dyeing & Mfg. Co. Ltd.
- ❖ Futura Industries Ltd.
- ❖ Futura Polyesters Ltd.
- ❖ Ganesha Ecosphere Ltd.
- ❖ India Polyfibres Ltd.
- ❖ Indo Rama Synthetics (India) Ltd.
- ❖ J C T Fibres Ltd
- ❖ Orissa Polyfibres Ltd.
- ❖ Orissa Synthetics Ltd.
- ❖ Rishraj Filaments Ltd.
- ❖ Suncity Synthetics Ltd.

Machinery Photographs



CRUSHER



CONVEYOR



DRYER



EXTRUDER

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site							
Development Exp.	0.00	67.00	67.00	Capital	0.00	88.29	88.29
Buildings	0.00	70.00	70.00	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	73.00	73.00	Capital	0.00	0.00	0.00
Motor Vehicles	0.00	10.00	10.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation							
Equipments	0.00	44.50	44.50	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow				Internal Cash			
Fees & Exp.	0.00	10.00	10.00	Accruals	0.00	0.00	0.00
Franchise & Other				Long/Medium Term			
Deposits	0.00	0.00	0.00	Borrowings	0.00	264.86	264.86
Preliminary & Pre-operative Exp	0.00	5.00	5.00	Debentures / Bonds	0.00	0.00	0.00
Provision for				Unsecured			
Contingencies	0.00	56.50	56.50	Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	17.14	17.14				
TOTAL	0.00	353.14	353.14	TOTAL	0.00	353.14	353.14

Project at a Glance

Year	Annualised		Book Value	Debt	Dividend	Retained Earnings		Payout	Probable Market Price	P/E Ratio	Yield Price/Book Value
	EPS	CEPS	Per Share		Per Share	Per Share		%		No.of Times	%
						%					
1-2	6.53	9.96	16.53	24.00	0.00	100.00	6.53	0.00	6.53	1.00	0.00
2-3	9.47	12.48	26.00	18.00	0.00	100.00	9.47	0.00	9.47	1.00	0.00
3-4	12.35	14.99	38.35	12.00	0.00	100.00	12.35	0.00	12.35	1.00	0.00
4-5	15.13	17.45	53.48	6.00	0.00	100.00	15.13	0.00	15.13	1.00	0.00
5-6	17.77	19.82	71.25	0.00	0.00	100.00	17.77	0.00	17.77	1.00	0.00

Project at a Glance

Year	D. S. C. R.			Debt / Equity - Deposits Debt	Equity as- Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contribution	P/V Ratio		
Initial	(Number of times)			(Number of times)		%	%	%	%	%	%			
1-2	1.45	1.45		3.00	3.00	1.89		21.54%	13.51%	9.15%	319.50	50.71%	1.52	0.99
2-3	1.79	1.62		0.69	0.69	1.02		24.08%	17.50%	11.38%	370.34	50.39%	1.62	1.44
3-4	2.19	1.79	2.18	0.31	0.31	0.56		25.78%	20.30%	12.98%	423.19	50.38%	1.61	1.99
4-5	2.64	1.98		0.11	0.11	0.31		26.91%	22.26%	14.13%	476.03	50.37%	1.54	2.61
5-6	3.17	2.18		0.00	0.00	0.17		27.64%	23.62%	14.94%	528.88	50.37%	1.44	4.95

BEP	
BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	49.61%
Total BEP (% of Installed Capacity)	53.02%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	28.11%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	4.753

Major Queries/Questions Answered in the Report?

- 1. What is Recycled Polyester Fiber from used PET Bottles Manufacturing industry ?**
- 2. How has the Recycled Polyester Fiber from used PET Bottles Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Recycled Polyester Fiber from used PET Bottles Manufacturing Plant ?**
- 4. What are the requirements of Working Capital for setting up Recycled Polyester Fiber from used PET Bottles Manufacturing plant ?**

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 - **Net Working Capital**
 - **Working Note for Calculation of Work-in-process**

- **Annexure 4 :: Sources and Disposition of Funds**

- **Annexure 5 :: Projected Balance Sheets**

- **ROI (Average of Fixed Assets)**
- **RONW (Average of Share Capital)**
- **ROI (Average of Total Assets)**

- **Annexure 6 :: Profitability Ratios**

- **D.S.C.R**
- **Earnings Per Share (EPS)**
- **Debt Equity Ratio**

- **Annexure 7 :: Break-Even Analysis**

- **Variable Cost & Expenses**
- **Semi-Variable/Semi-Fixed Expenses**
- **Profit Volume Ratio (PVR)**
- **Fixed Expenses / Cost**
- **B.E.P**

- **Annexure 8 to 11 :: Sensitivity Analysis-Price/Volume**

- **Resultant N.P.B.T**
- **Resultant D.S.C.R**
- **Resultant PV Ratio**
- **Resultant DER**
- **Resultant ROI**
- **Resultant BEP**

- **Annexure 12 :: Shareholding Pattern and Stake Status**

- **Equity Capital**
- **Preference Share Capital**

- **Annexure 13 :: Quantitative Details-Output/Sales/Stocks**

- **Determined Capacity P.A of Products/Services**
- **Achievable Efficiency/Yield % of Products/Services/Items**
- **Net Usable Load/Capacity of Products/Services/Items**
- **Expected Sales/ Revenue/ Income of Products/ Services/ Items**

- **Annexure 14** :: **Product wise Domestic Sales Realisation**
- **Annexure 15** :: **Total Raw Material Cost**
- **Annexure 16** :: **Raw Material Cost per unit**
- **Annexure 17** :: **Total Lab & ETP Chemical Cost**
- **Annexure 18** :: **Consumables, Store etc.**
- **Annexure 19** :: **Packing Material Cost**
- **Annexure 20** :: **Packing Material Cost Per Unit**

- **Annexure 21** :: **Employees Expenses**
- **Annexure 22** :: **Fuel Expenses**
- **Annexure 23** :: **Power/Electricity Expenses**
- **Annexure 24** :: **Royalty & Other Charges**
- **Annexure 25** :: **Repairs & Maintenance Expenses**
- **Annexure 26** :: **Other Manufacturing Expenses**
- **Annexure 27** :: **Administration Expenses**
- **Annexure 28** :: **Selling Expenses**

- **Annexure 29 :: Depreciation Charges – as per Books (Total)**
- **Annexure 30 :: Depreciation Charges – as per Books (P & M)**
- **Annexure 31 :: Depreciation Charges - as per IT Act WDV (Total)**
- **Annexure 32 :: Depreciation Charges - as per IT Act WDV (P & M)**
- **Annexure 33 :: Interest and Repayment - Term Loans**
- **Annexure 34 :: Tax on Profits**
- **Annexure 35 :: Projected Pay-Back Period and IRR**

Reasons for Buying our Report:

- **This 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**
- **This report provides vital information on the product like it's characteristics and segmentation**
- **This report helps you market and place the product correctly by identifying the target customer group of the product**

- **This 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**

Scope of the Report

The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Recycled Polyester Fiber from used PET Bottles.” provides an insight into Recycled Polyester Fiber from used PET Bottles market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Recycled Polyester Fiber from used PET Bottles project. The report assesses the market sizing and growth of the Indian Recycled Polyester Fiber from used PET Bottles Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- **Good Present/Future Demand**
- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the Recycled Polyester Fiber from used PET Bottles sector in India along with its business prospects. Through this report we have identified Recycled Polyester Fiber from used PET Bottles project as a lucrative investment avenue.

Tags

#RecycledPolyesterFiber #PolyesterFiber #PolyesterFiberManufacturing
#PolyesterFiberProduction #PolyesterFiberBusiness #PolyesterFiberMarket
#PolyesterFiberMarketgrowth #PETBottles #petpackaging #plastic
#plasticbottles #Recycle #petbottlesmanufacturing #petbottlesindustry
#PETBottlesProduction #PETBottlesMarket #PETBottlesMarketSize
#PETBottlesMarketOutlook #PET #beveragepackaging #plasticpackaging
#PETBottlesMarketGrowth #PETBottlesMarketBusiness
#PETBottlesMarketBusinessPlan #RecycledPolyesterFiberBusiness
#RecycledPETBottles #RecycledPETBottlesMarket #DetailedProjectReport
#businessconsultant #BusinessPlan #feasibilityReport #NPCS

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#Plan4Business #StartupPlan #InvestingCapitalForBusiness
#HowToMakeYourBusinessMoreSuccessful #investorbusiness
#Startupcapital #BusinessPlanning #TechnologyTrendsForBusiness
#StartupIdea #Recycled PolyesterFiberStartupPlan #RecyclingPlasticBottles
#SustainableTextiles #SyntheticFiber #SyntheticFiberBusiness

NIIR PROJECT CONSULTANCY SERVICES (NPCS)
can provide Detailed Project Report on

**Recycled PET Polyester Fiber Manufacturing from
used PET Bottles**

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OUR CLIENTS

Our inexhaustible Client list includes public-sector companies, Corporate Houses, Government undertaking, individual entrepreneurs, NRI, Foreign investors, non-profit organizations and educational institutions from all parts of the World. The list is just a glimpse of our esteemed & satisfied Clients.

Click here to take a look
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Select and Choose the Right Business Startup for You

(Instant Online Project Identification and Selection)

Finding the right startup business is one of the most popular subject today. Starting a business is no easy endeavor, but the time, effort, and challenges can be worth it if you succeed. To give yourself the best chance to be successful, take your time to carefully find the right business for you. We, at NPCS, endeavor to make business selection a simple and convenient step for any entrepreneur/startup. Our expert team, by capitalizing on its dexterity and decade's long experience in the field, has created a list of profitable ventures for entrepreneurs who wish to diversify or venture. The list so mentioned is updated regularly to give you a regular dose of new emerging opportunities.

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▪ [Detailed Project Reports](#)

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NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.

And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- **Good Present/Future Demand**
- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,

Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in India along with its business prospects.....[Read more](#)



Contact us

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Niir PROJECT CONSULTANCY SERVICES

AN ISO 9001: 2015 CERTIFIED 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*

We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. We have successfully achieved top-notch quality standards with a high level of customer appreciation resulting in long lasting relation and large amount of referral work through technological breakthrough and innovative concepts. A large number of our Indian, Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success.

We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.

What do we offer?

- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
- *Market Research Reports*
- *Business Plan*
- *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

Sectors We Cover *Conti..*

- 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

Sectors We Cover *Cont...*

- 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

Sectors We Cover *Cont...*

- 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

Sectors We Cover

Cont...

- 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.

Sectors We Cover *Cont...*

- 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.

Sectors We Cover *Cont...*

- 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

Sectors We Cover *Cont...*

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



MARKET RESEARCH REPORTS

Objective

- ⌘ To get a detailed scenario of the industry along with its structure and classification
- ⌘ To provide a comprehensive analysis of the industry by covering aspects like:
 - ⌘ Growth drivers of the industry
 - ⌘ Latest market trends
 - ⌘ Insights on regulatory framework
 - ⌘ SWOT Analysis
 - ⌘ Demand-Supply Situation
 - ⌘ Foreign Trade
 - ⌘ Porters 5 Forces Analysis

Objective

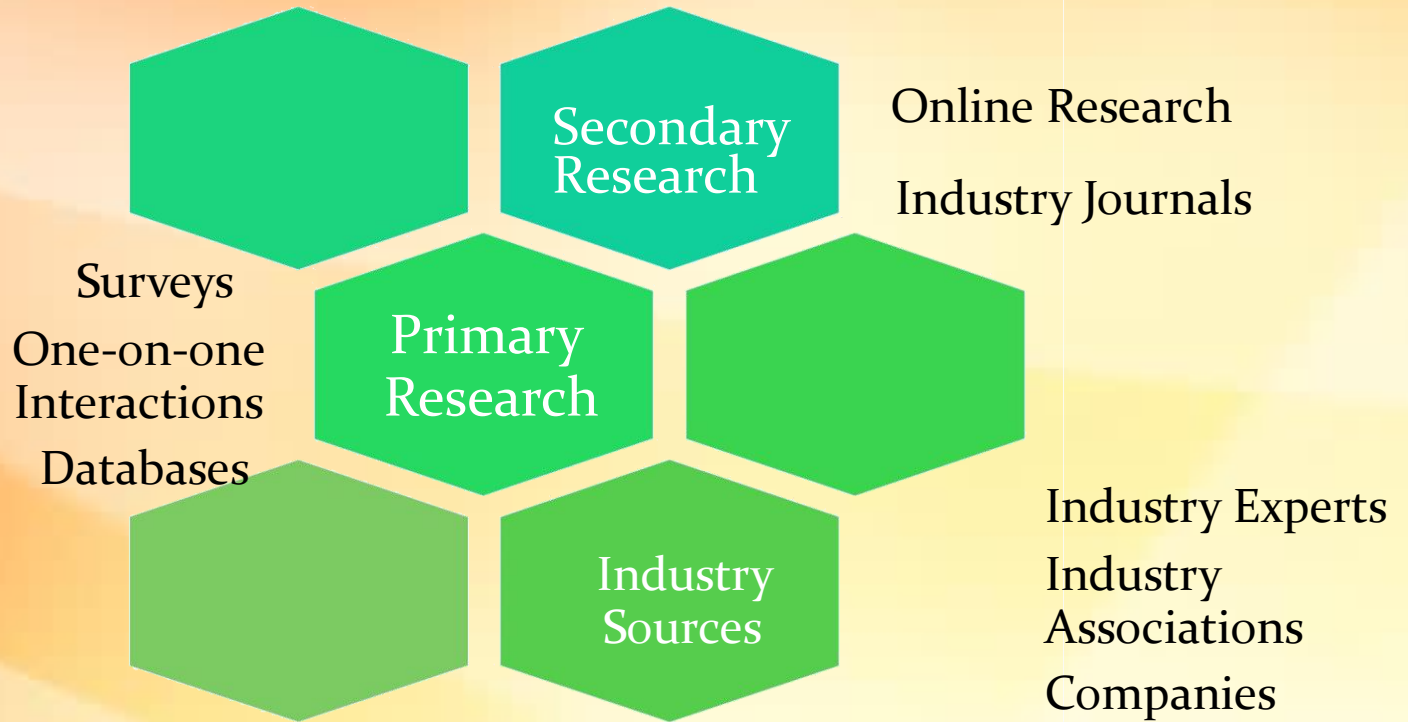
- ∞ To provide forecasts of key parameters which helps to anticipate the industry performance
- ∞ To help chart growth trajectory of a business by detailing the factors that affect the industry growth
- ∞ To help an entrepreneur/manager in keeping abreast with the changes in the industry
- ∞ To evaluate the competitive landscape of the industry by detailing:
 - ∞ Key players with their market shares
 - ∞ Financial comparison of present players

Clientele

- ∞Venturist/Capitalists
- ∞Entrepreneur/Companies
- ∞Industry Researchers
- ∞Investment Funds
- ∞Foreign Investors, NRI's
- ∞Project Consultants/Chartered Accountants
- ∞Banks
- ∞Corporates

[Click here for list](#)

Data Sources



Scope & Coverage



Our Team

- ∞ Our research team comprises of experts from various financial fields:
- ∞ MBA's
- ∞ Industry Researchers
- ∞ Financial Planners
- ∞ Research veterans with decades of experience

Structure of the Report

- 1. Overview
- 2. Market Analysis
 - 2.1 Growth Drivers
 - 2.2 Emerging Trends in the Industry
 - 2.3 Regulatory Framework
 - 2.4 SWOT Analysis
 - 2.5 Herfindahl–Hirschman Index (HHI)
- 3. Market Forecasts
- 4. Key Players

Structure of the Report

Cont

- ⌘5. Key Financials and Analysis
 - ⌘5.1 Contact Information
 - ⌘5.2 Key Financials
 - ⌘5.3 Financial comparison
- ⌘6. Industry Size & Outlook

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