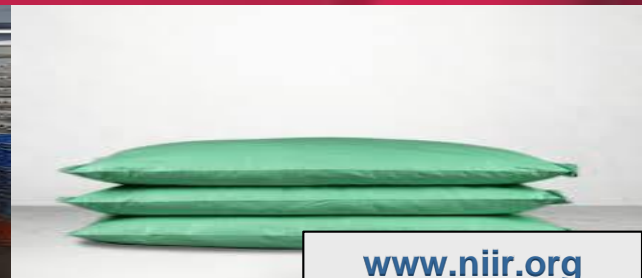


HDPE/PP Bags

High Density Polyethylene/Polypropylene Plastic Bags Production

“Most Profitable Business Opportunities of Startups”.



Woven polypropylene bags, also known as woven PP bags, are the toughest packing bags available, and are commonly used to pack materials for the grain, milling, and sugar industries. Furthermore, these bags are commonly used in the fodder, pesticides, and fertilizer industries, as well as the HDPE/PP Bags industry and other applications such as sand, metal parts, and concrete.



The polymer chains in HDPE (High Density Polyethylene) Sacks have very little branching. It is more stable and less permeable than LDPE since it is denser. It weighs 0.941-0.965 g/cm³ and has a density of 0.941-0.965 g/cm³. The HDPE bag has a higher tensile strength than the LDPE bag, but it is less flexible. The polymer chains in HDPE (High Density Polyethylene) poly bags have very little branching. It is more stable and less permeable than LDPE since it is denser.



The Ministry of Textiles of the Indian government has increased the cap for high-density polyethylene (HDPE)/polypropylene (PP) bags to address current issues with food grain packaging. HDPE/PP sacks are becoming increasingly common all over the world. This is due to the fact that they are chemically inert, water repellent, and light in weight. They are unregulated, have ample strength, and are easily handled. They are also moderately priced as compared to other styles of bags. Potatoes, coconut, and other foods are packaged in air-permissible sacks made of polythene strips.



Agricultural items such as aquatic products, feeds, fruits, and vegetables are commonly stored and transported in HDPE/PP woven bags. Feed Polypropylene Woven Bags, chemical Polypropylene Woven Bags, fertilizer Polypropylene Woven Bags, vegetable woven bags, and fruit mesh bags are all examples of PP woven bags used in agriculture. Woven bags are useful for mitigating or avoiding the negative effects of flood waters. They're usually used to construct dams, river banks, bridges, and railways. Sandbags made of woven polypropylene are commonly used all over the world.

HDPE/PP Bags can be used for a variety of purposes like:

- 1. It is a very low-cost alternative.**
- 2. Versatile and solid, with long-term durability.**
- 3. It is possible to print on both sides.**
- 4. UV-stability allows for up to 6 months of storage in an open environment.**
- 5. Packing materials are shielded from outside humidity due to internal PE liners or laminated on the outside.**

- 6. Anti-skid properties and twisted weave**
- 7. 100% recycled**
- 8. Laminated and unlaminated options are available.**
- 9. Packing in a vacuum**
- 10. Because of its UV stability, it can be stored outside.**



Woven polypropylene bags, also known as woven PP bags, are the toughest packing bags available, and are commonly used to pack materials for the grain, milling, and sugar industries. Furthermore, these bags are commonly used in the fodder, pesticides, and fertilizer industries, as well as the HDPE/PP Bags industry and other applications such as sand, metal parts, and concrete.



Each stage of the manufacturing process is described in detail. Tape extrusion, fabric weaving, extrusion lamination, gravure printing, bag shaping, bag stitching, quality checking, and customer shipping are all part of this process:

Extrusion and Winding: To make PP/HDPE tapes, high-speed extrusion, double-stage draw, tape stretching, and winding lines use cutting-edge technology. The lines are engineered to meet the highest performance and quality requirements while using the least amount of raw material and resources possible.

Fabric Weaving: To produce circular fabric of PP/HDPE tapes with almost zero defect, high performance circular loom machines are used. Circular looms for PP fabric weaving combine cutting-edge technology with the energy-saving benefits of circular looms. They can handle a wide variety of fabric requirements while increasing productivity and lowering costs.



Bag Conversion: High-speed bag conversion lines produce bottom-folded and-sewn woven sacks from tubular woven PP/HDPE fabric rolls. These new generation machines are designed for cross cutting tubular fabric, bottom folding, stitching, and stacking in typical bag applications. Their cutting-edge automated functions ensure consistent cut efficiency and precision.



Multi Filament Yarn: Spin-draw-wind line with multiple filaments Multi-filament spin-draw-wind lines are used to create a highly scalable compact melt spinning line concept. Each is best suited to meet strategic and organizational needs at the lowest possible cost. They're perfect for producing high-tenacity, medium- to heavy-denier yarn in small batches to meet particular requirements or niche applications, and they can easily adapt to changing conditions.



FIBC Manufacturing: FIBC manufacturing necessitates the use of specialized equipment. Automatic fabric cutting machines with the option of spout or profile cutting that are state-of-the-art. Cutting machines for baffle panels, profiles, or holes that are hydraulically controlled and capable of cutting profiles or round cutouts as desired. To make lifting loops for the FIBCs, webbing or belt cutting machines were needed to cut belts to the required lengths.



Testing and packing: To ensure flawless service to the consumers, all appropriate laboratory equipment is used for quality tests at each point of production. For proper shipment to customers, bags are checked, sorted, and stacked. The finished bags should be pressed and packed correctly for safety using a hydraulic pallet and bale press for systematic and cost-effective storage and transportation.



The demand for polypropylene woven bags and sacks was projected to be worth \$3,421.5 million globally. The global economy is forecast to grow at a rate of 4.2 percent per year. Polypropylene woven bags and sacks are non-toxic and 100% reusable. Polypropylene woven bags and sacks are used in a variety of industries. Polypropylene woven bags and sacks are widely used in agriculture, food processing, geotechnical packaging, tourism and transportation, everyday necessities, and flood control devices, to name a few.



The valve bags, gusseted bags, block bottom bags, pinch bottom bags, open mouth bags, and other polypropylene woven bags and sacks market is segmented by bag type. Laminated polypropylene woven bags and non laminated polypropylene woven bags make up the demand for polypropylene woven bags and sacks. The demand for laminated polypropylene woven bags and sacks is divided into two categories: Kraft paper laminate and BOPP laminate. Building & construction, agriculture & allied industries, food, retail and shopping, and others are the end-use segments of the polypropylene woven bags and sacks industry.

Because of increased urbanization and industrial growth, the HDPE/PP Bags industry's demand for polypropylene bags and sacks has increased significantly in recent years. Multinational corporations are looking to expand in the Middle East in anticipation of increased demand from the construction industry. Agriculture and the building and construction industries are expected to fuel demand for woven sacks.



Polypropylene and polyethylene are the two most commonly used materials in the production of woven sacks; however, polypropylene is the preferred material due to its non-toxic properties. Woven sacks are used in a number of industries, such as agriculture, horticulture, manufacturing, and other businesses, since they are easier to pack and produce. The global woven sacks market is expected to be driven by these factors.



1. Aditya Polymers Ltd.

2. Ashok Polymers Ltd.

3. Ashoka Poly Laminators Ltd.

4. Bardanwala Plastics Pvt. Ltd.

5. Bihar Raffia Inds. Ltd.

6. Commercial Syn Bags Ltd.

7. Dhoot Compack Pvt. Ltd.

8. Eclat Industries Ltd.

9. Emmbi Industries Ltd.

10. Ganpati Plastfab Ltd.

11. Gopala Polyplast Ltd.

12. Indra Industries Ltd.

13. Jagannath Polypacks Ltd.

14. Krishna Poly Packs Pvt. Ltd.

Raffia Tape Stretching Line Machine



Extrusion Coating Lamination Plant



Rotogravure Printing Machine



Baling Machine



Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	113.91	113.91	Capital	0.00	352.79	352.79
Buildings	0.00	217.00	217.00	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	645.15	645.15	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	12.00	12.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	119.50	119.50	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	25.00	25.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	1058.38	1058.38
Preliminary & Pre-operative Exp	0.00	5.00	5.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	62.00	62.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	211.62	211.62				
TOTAL	0.00	1411.18	1411.18	TOTAL	0.00	1411.18	1411.18

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				
						%		%		No.of Times	
											%
1-2	-0.59	3.48	9.41	24.00	0.00	100.00	-0.59	0.00	-0.59	1.00	0.00
2-3	14.03	17.54	23.44	18.00	0.00	100.00	14.03	0.00	14.03	1.00	0.00
3-4	13.13	16.17	36.57	12.00	0.00	100.00	13.13	0.00	13.13	1.00	0.00
4-5	12.20	14.83	48.77	6.00	0.00	100.00	12.20	0.00	12.20	1.00	0.00
5-6	11.18	13.46	59.95	0.00	0.00	100.00	11.18	0.00	11.18	1.00	0.00

Project at a Glance

Year	D. S. C. R.			Debt / - 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		
	(Number of times)			(Number of times)		%	%	%	%	%	%			
Initial				3.00	3.00									
1-2	0.71	0.71		2.55	2.55	4.73	3.20%	-1.86%	-0.53%	1248.63	31.75%	2.09	0.90	
2-3	2.41	1.53		0.77	0.77	2.44	12.72%	9.64%	6.29%	2175.10	27.66%	2.78	1.20	
3-4	2.34	1.78	1.94	0.33	0.33	1.40	12.05%	9.15%	5.89%	1852.94	23.56%	2.55	1.42	
4-5	2.27	1.89		0.12	0.12	0.94	11.28%	8.58%	5.47%	1852.94	23.56%	2.37	1.61	
5-6	2.17	1.94		0.00	0.00	0.66	10.42%	7.93%	5.02%	1852.94	23.56%	2.24	2.04	

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	62.01%
Total BEP (% of Installed Capacity)	66.36%

IRR, PAYBACK and FACR

Internal Rate of Return .. (In %age)	24.65%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	11.594

Major Queries/Questions Answered in the Report?

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

- 5. What is the structure of the HDPE/PP Bags Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up HDPE/PP Bags Manufacturing Business?**
- 7. What are the operating costs for setting up HDPE/PP Bags Manufacturing plant ?**
- 8. What are the machinery and equipment requirements for setting up HDPE/PP Bags Manufacturing plant ?**

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up HDPE/PP Bags Manufacturing plant ?**
- 10. What are the requirements of raw material for setting up HDPE/PP Bags Manufacturing plant ?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up HDPE/PP Bags Manufacturing Business?**
- 12. What is the Manufacturing Process of HDPE/PP Bags?**

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18. What are the Personnel (Manpower) Requirements for setting up HDPE/PP Bags Manufacturing Business?

19. What are Statistics of Import & Export for HDPE/PP Bags?

20. What is the time required to break-even of HDPE/PP Bags Manufacturing Business?

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- **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**
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- **The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions**

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- **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 HDPE/PP Bags provides an insight into HDPE/PP Bags market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of HDPE/PP Bags project. The report assesses the market sizing and growth of the Indian HDPE/PP Bags 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 HDPE/PP Bags sector in India along with its business prospects. Through this report we have identified HDPE/PP Bags project as a lucrative investment avenue.

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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.

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- **Good Present/Future Demand**
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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.

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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 *Cont...*

- 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

**Take a look at *NIIR PROJECT CONSULTANCY SERVICES* on
#Street View**

<https://goo.gl/VstWkd>

Contact us

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Take a look at *NIIR PROJECT CONSULTANCY SERVICES* on #StreetView

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Thank you