Y-1739

Start a Manufacturing Unit for

Wood Plastic Composite (WPC)

Business.

"Growing Opportunity in the Market"

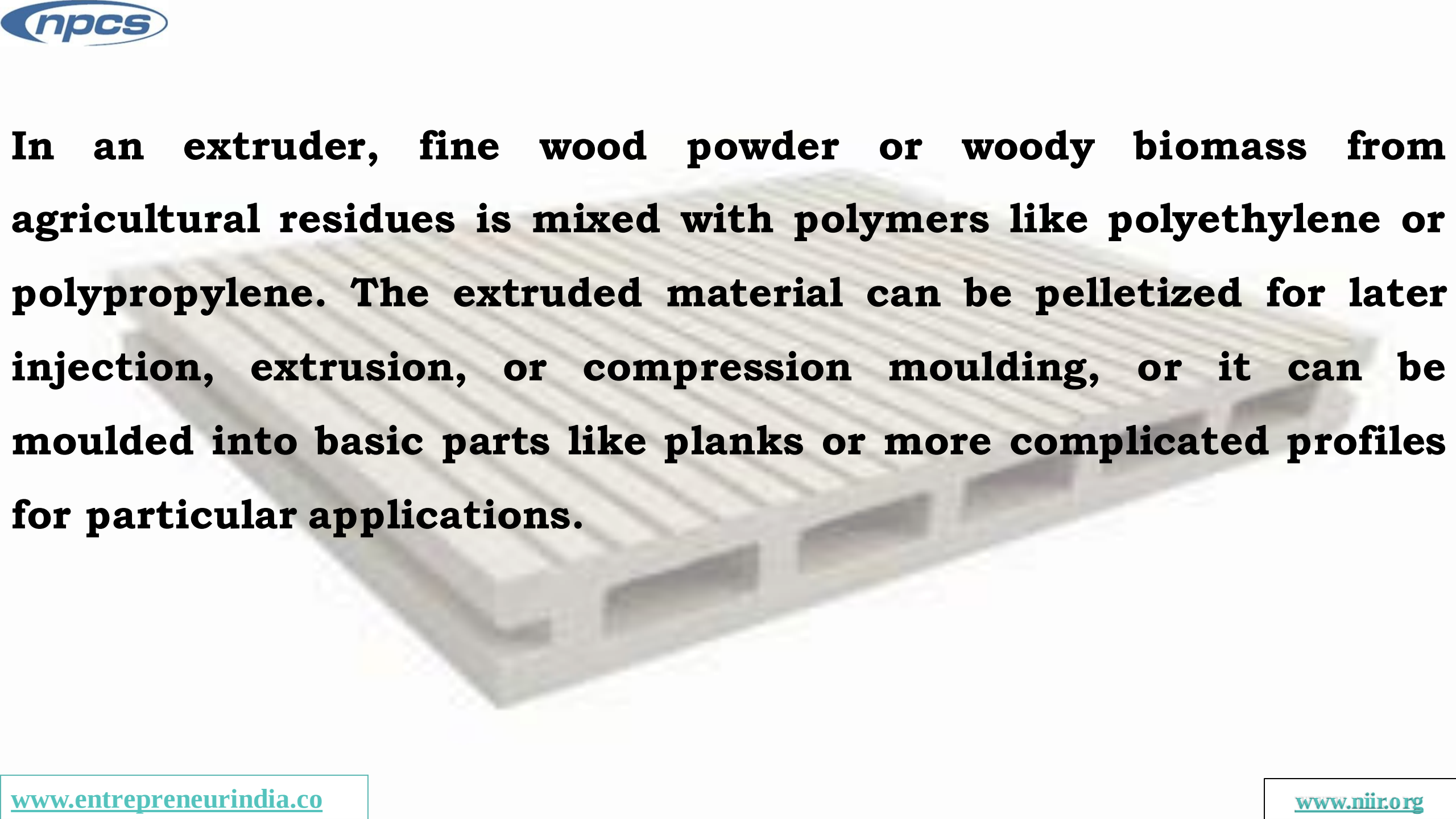
INTRODUCTION

WPCs are thermoplastic composite materials consisting of wood fiber/wood flour and thermoplastic(s) such as PE, PP, PVC, or PLA. WPCs may include ligno-cellulosic and/or inorganic filler materials in addition to wood fibre and plastic. WPCs are a subset of natural fibre plastic composites (NFPCs), which may or may not include cellulose-based fibre fillers such as pulp fibres, peanut hulls, coffee husk, bamboo, straw, digestate, and so on. Chemical additives in the composite structure seem to be virtually "invisible" (except for mineral fillers and pigments, if added).

They allow polymer and wood flour (powder) integration while facilitating optimal processing conditions. People in the flooring industry have begun to refer to WPC as a form of floor with a simple structure of top vinyl veneer plus a rigid extruded core in recent years (the core can be made without any wood fiber). Within the LVT industry, WPC has become a well-established product category. This form of WPC is not intended for outdoor use and differs from WPC decking.

WPCs are a relatively new product; the existing demand of 220,000 per year (Europe, in 2010) was established over about 20 years of intensive activity. In reality, the product dates back to 1972, when Gruppo Ovattifici Riunitti (GOR) produced 'Woodstock' for Fiat cars, and Sonneson AB produced PVC-wood fiber floor tiles in Sweden. The definition is easy to grasp.

In an extruder, fine wood powder or woody biomass from agricultural residues is mixed with polymers like polyethylene or polypropylene. The extruded material can be pelletized for later injection, extrusion, or compression moulding, or it can be moulded into basic parts like planks or more complicated profiles for particular applications.



USES OF WOOD PLASTIC COMPOSITE (WPC)

Building and construction materials, followed by automotive parts, are the most popular uses for wood-plastic composites. Wood-plastic composites are commonly used in decking, moulding and sliding, and fencing in the building and construction industry. In the coming years, rising demand for high-performance, low-maintenance, and low-cost construction materials that are eco-friendly and maintenance-free is expected to fuel global demand for wood-plastic composites.

Furthermore, the demand for recyclable and biodegradable materials for manufacturing parts, as well as the superior mechanical power, weight reduction, and fuel efficiency properties of wood-plastic composites, are expected to boost demand for these composites over the forecast era. The wood-plastic composites market is divided into polyethylene (PE), polyvinylchloride (PVC), polypropylene (PP), and others, which include acrylonitrile butadiene styrene (ABS) and polylactide, based on form (PLA). In terms of volume, the polyethylene segment accounted for the largest share of the wood-plastic composites market in 2015.

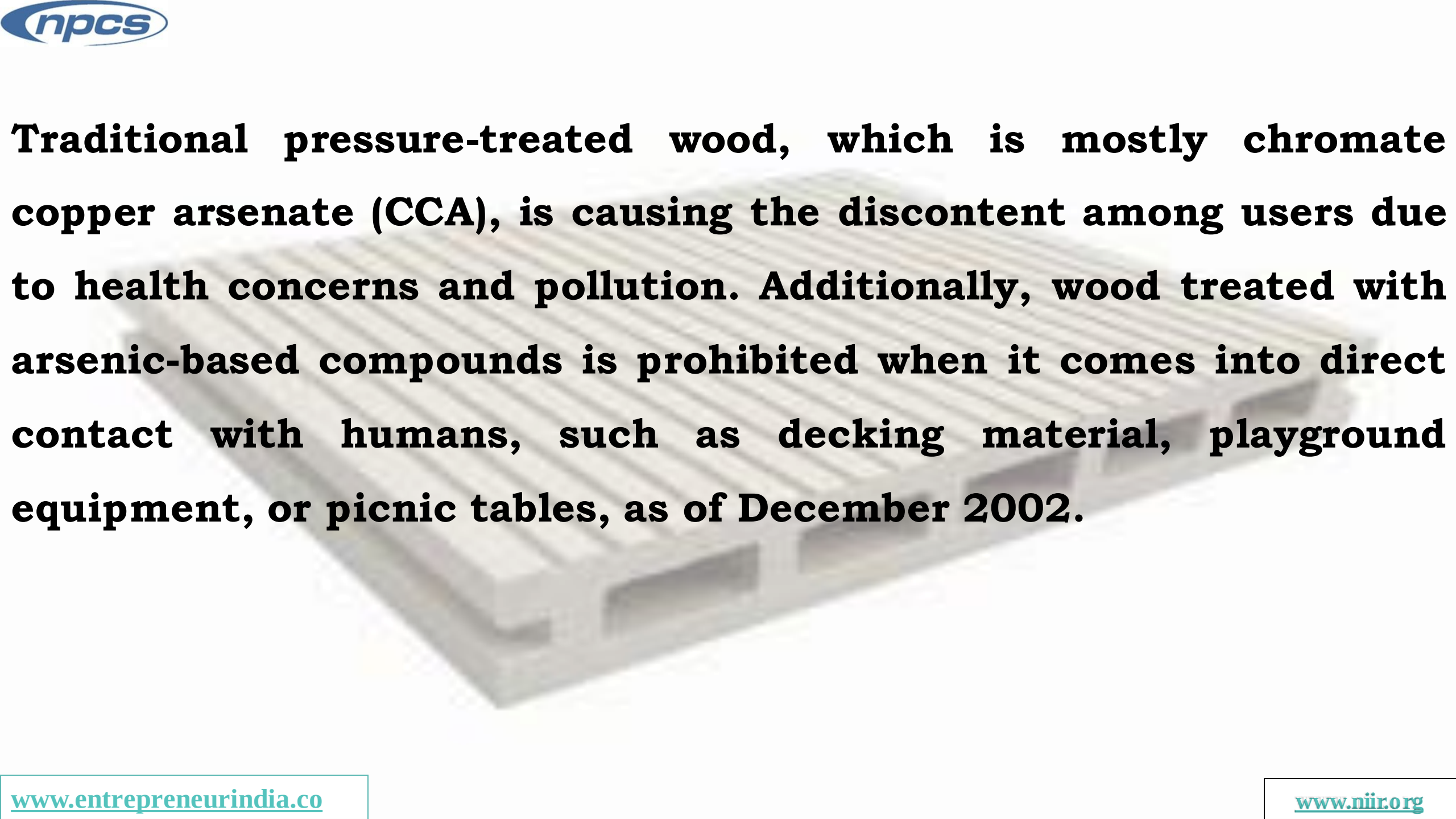
PRODUCTION STEPS AND PROPERTIES OF WOOD PLASTIC COMPOSITE (WPC)

Polyethylene (PE) is a commonly used form of wood-plastic composites for decking, including flooring, lumber, moulding strips, furniture materials, wall cladding, hollow boards, hollow filler parts, and profiles, due to its molecular structure and unique arrangement of molecules. WPC manufacturing is typically a two-step process. Compounding is the process of combining wood and thermoplastics such as high density polyethylene (HDPE), low density polyethylene (LDPE), and polyvinyl chloride (PVC) into a dough-like consistency.

Batch or continuous processes may be used for mixing. Plastic coupling agents, stabilisers, foaming agents, or dyes are added to improve the properties of the finished product for a specific application, in addition to the main ingredient wood with grain sizes varying from 20 to 60 mesh. Lubricants, for example, enhance the appearance of the surface. WPC can be shaped in three different ways. Extrusion is a process that involves forcing molten composite through a die. The injection moulding process involves forcing molten composite into a cold mould.

The third press squeezes the molten composite between the mould halves. The relationship between wood and thermoplastic material determines the majority of the physical and mechanical properties of WPC. Using a coupling agent as an additive is one of the most effective ways to enhance this relationship. In general, such additives aid compatibility between hydrophilic wood, which readily absorbs moisture, and hydrophobic plastic, which has little tolerance for water, allowing the creation of a single phase composite and resulting in a product with greater dimensional stability than solid wood.

Traditional pressure-treated wood, which is mostly chromate copper arsenate (CCA), is causing the discontent among users due to health concerns and pollution. Additionally, wood treated with arsenic-based compounds is prohibited when it comes into direct contact with humans, such as decking material, playground equipment, or picnic tables, as of December 2002.



FEATURES OF WOOD PLASTIC COMPOSITE (WPC)

Low maintenance:

WPC products combine the best qualities of wood and plastic to provide exceptional strength and resistance. Unlike timber, which needs maintenance on a regular basis to maintain its optimal efficiency, WPC is naturally resistant to rotting, cracking, and splintering. WPC is also fade and UV resistant, which are important characteristics for materials used in outdoor environments like decks and patios. In contrast to natural wood, WPC needs very little maintenance beyond periodic washing, resulting in significant cost and time savings.

Environmentally friendly:

Since WPC is made from wood waste and recycled plastic, there is no need for deforestation in the manufacturing phase. As a result, it's a more environmentally friendly alternative to wood, whose development puts pressure on already scarce plantation forests. In addition, the use of recycled plastic items is important in addressing waste management concerns and promoting industry best practices in terms of sustainable material use.

Design flexibility:

The fact that colour and species choices are entirely dependent on availability from plantation forests is one of the major disadvantages of designing with timber. WPC, on the other hand, is available year-round in a variety of colours, textures, and price points, and is not reliant on external factors including plantation yield and quality. As a result, it provides incredible design versatility as well as a beautiful natural look, often at a fraction of the cost of natural wood.

Due to a high degree of material uniformity that cannot be matched by timber, WPC also allows for unrivalled ease of matching vertical screening, horizontal decorative laths, and decorative elements.

Easy installation:

WPC decking removes the complicated fixings that come with timber decking, allowing for a more efficient installation process and a major reduction in labour and expense. WPC decking is easily mounted using hidden fasteners that clip into side grooves in the board. While timber decking is usually fixed with screws, exposing potentially dangerous screw heads on the deck surface, WPC decking is easily installed using hidden fasteners that clip into side grooves in the board.

MARKET OUTLOOK

The wood-plastic composites market is expected to develop at a CAGR of 12.4% from 2016 to 2021, reaching USD 5.84 billion. The growing demand for wood-plastic composites in the building and construction industry is a major driver of market development. Between 2016 and 2021, the wood-plastic composites market in Asia-Pacific is expected to expand at the fastest pace. Increased construction activities and investments in the expansion or upgrade of manufacturing facilities have fueled development in China and India's economies.

The largest economies in Asia-Pacific, China, Japan, and India, have more prospects for the growth of the wood-plastic composites market in the near future. Government initiatives to encourage industrial growth would further aid the growth of the wood-plastic composites industry in these countries. Over the last five years, the Indian Composites Industry has developed at a steady pace, serving a diverse range of raw materials, parts, and industries.

The Indian composites industry is expected to develop rapidly, with a CAGR of 8.2 percent, to cross 4.9 lakh metric tonnes by 2022. Rebounding renewable energy, growth in mass transportation, penetration of composites in strategic sectors, and a modestly growing index of industrial production could all contribute to this level of growth.

KEY PLAYERS

- **Amazon Wood Pvt. Ltd.**
- **Archidply Industries Ltd.**
- **Aryan Enterprises Pvt. Ltd.**
- **Asian Pre-Lam Inds. Pvt. Ltd.**
- **Associate Decor Ltd.**
- **Austin Plywood Pvt. Ltd.**

MACHINERY PHOTOGRAPHS

Extrusion Die and T Type Mold

Cooling Conveyor Bridge

Double Screw Extruder

Calibration Platform

Cooling Bracket

Transverse Cutter

PROJECT AT A GLANCE

COST OF PROJECT

Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	235.00	235.00
Buildings	0.00	119.40	119.40
Plant & Machineries	0.00	141.50	141.50
Motor Vehicles	0.00	18.00	18.00
Office Automation Equipments	0.00	65.00	65.00
Technical Knowhow Fees & Exp.	0.00	25.00	25.00
Franchise & Other Deposits	0.00	0.00	0.00
Preliminary& Pre-operative Exp	0.00	5.00	5.00
Provision for Contingencies	0.00	12.70	12.70
Margin Money - Working Capital	0.00	65.67	65.67
TOTAL	0.00	687.27	687.27

MEANS OF FINANCE

Particulars	Existing	Proposed	Total
Capital	0.00	171.82	171.82
Share Premium	0.00	0.00	0.00
Other Type Share Capital	0.00	0.00	0.00
Reserves & Surplus	0.00	0.00	0.00
Cash Subsidy	0.00	0.00	0.00
Internal Cash Accruals	0.00	0.00	0.00
Long/Medium Term Borrowings	0.00	515.45	515.45
Debentures / Bonds	0.00	0.00	0.00
Unsecured Loans/Deposits	0.00	0.00	0.00
TOTAL	0.00	687.27	687.27

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	6.73	9.42	16.73	24.00	0.00	100.00	6.73	0.00	6.73	1.00	0.00
2-3	9.80	12.16	26.53	18.00	0.00	100.00	9.80	0.00	9.80	1.00	0.00
3-4	12.81	14.88	39.34	12.00	0.00	100.00	12.81	0.00	12.81	1.00	0.00
4-5	15.71	17.54	55.05	6.00	0.00	100.00	15.71	0.00	15.71	1.00	0.00
5-6	18.49	20.11	73.54	0.00	0.00	100.00	18.49	0.00	18.49	1.00	0.00

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	1.39	1.39		1.43	1.43	2.34		15.54%	8.76%	5.84%	755.78	38.17%	2.11	1.06
2-3	1.75	1.57		0.68	0.68	1.34		17.10%	11.28%	7.29%	832.15	36.02%	2.21	1.32
3-4	2.17	1.75	2.16	0.31	0.31	0.81		18.17%	13.06%	8.34%	949.84	35.98%	2.19	1.63
4-5	2.65	1.95		0.11	0.11	0.51		18.89%	14.33%	9.09%	1067.54	35.94%	2.10	1.98
5-6	3.21	2.16		0.00	0.00	0.34		19.37%	15.22%	9.63%	1185.24	35.92%	1.97	2.94

BEP	
BEP - Maximum Utilisation Year	**5**
Cash BEP (% of Installed Capacity)	**54.59%**
Total BEP (% of Installed Capacity)	**56.93%**
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)	**7.500**

Major Queries/Questions Answered in the Report?

1. What is Wood Plastic Composite (WPC)Manufacturing industry ?

2. How has the Wood Plastic Composite (WPC)Manufacturing industry performed so far and how will it perform in the coming years ?

3. What is the Project Feasibility of Wood Plastic Composite (WPC)Manufacturing Plant ?

4. What are the requirements of Working Capital for setting up Wood Plastic Composite (WPC)Manufacturing plant ?

5. What is the structure of the Wood Plastic Composite (WPC)Manufacturing Business and who are the key/major players ?

6. What is the total project cost for setting up Wood Plastic Composite (WPC)Manufacturing Business?

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11. Who are the Suppliers and Manufacturers of Raw materials for setting up Wood Plastic Composite (WPC)Manufacturing Business?

12. What is the Manufacturing Process of Wood Plastic Composite (WPC)?

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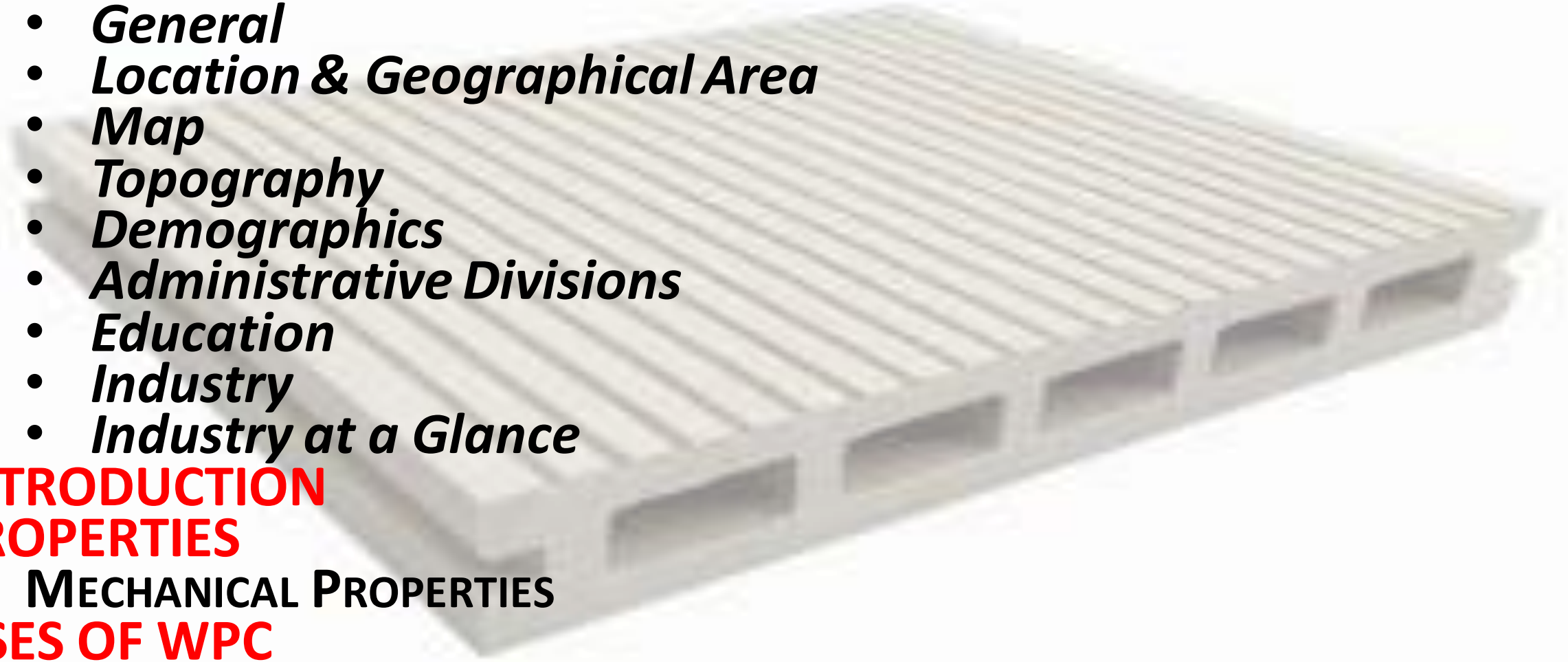

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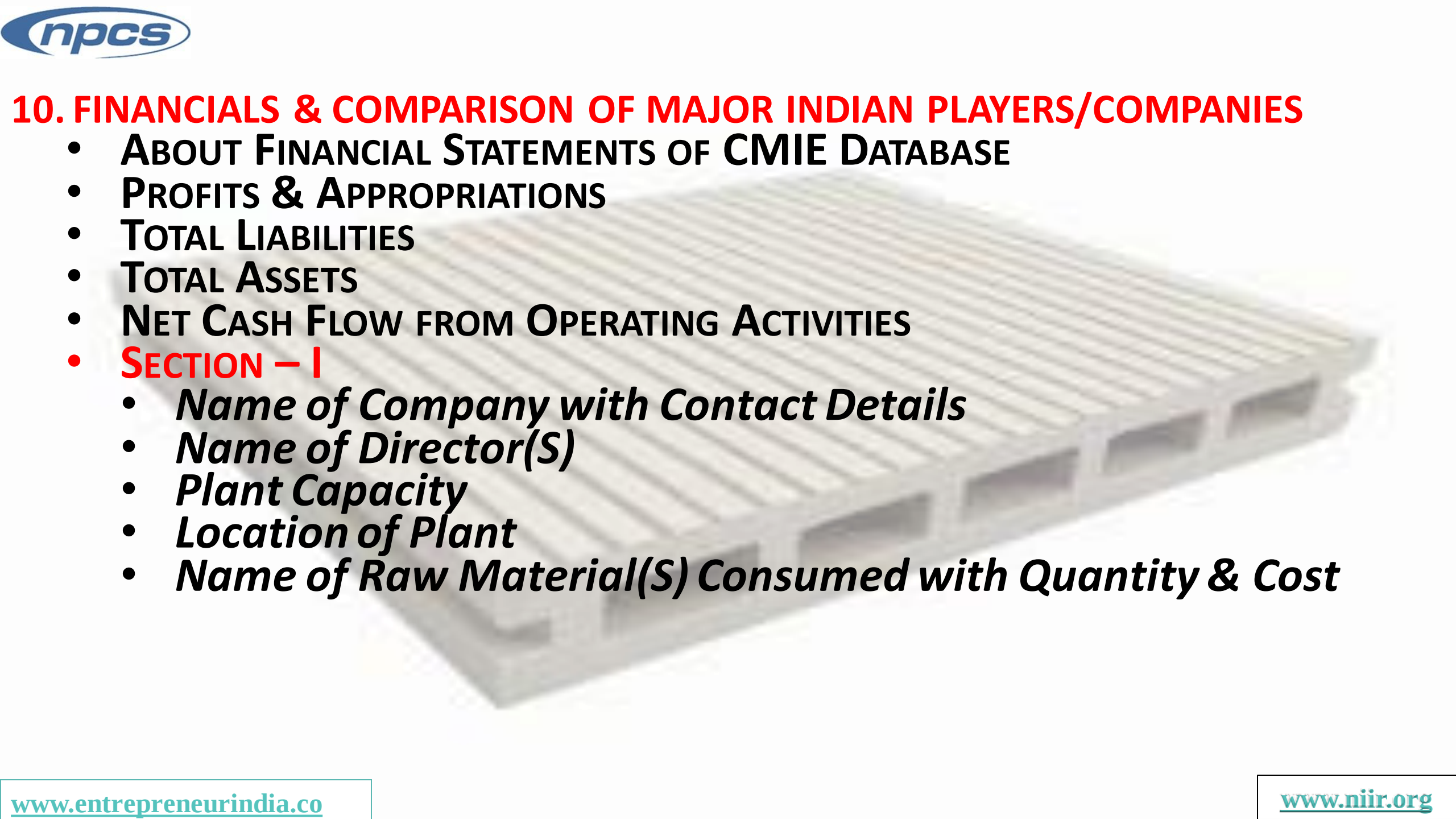

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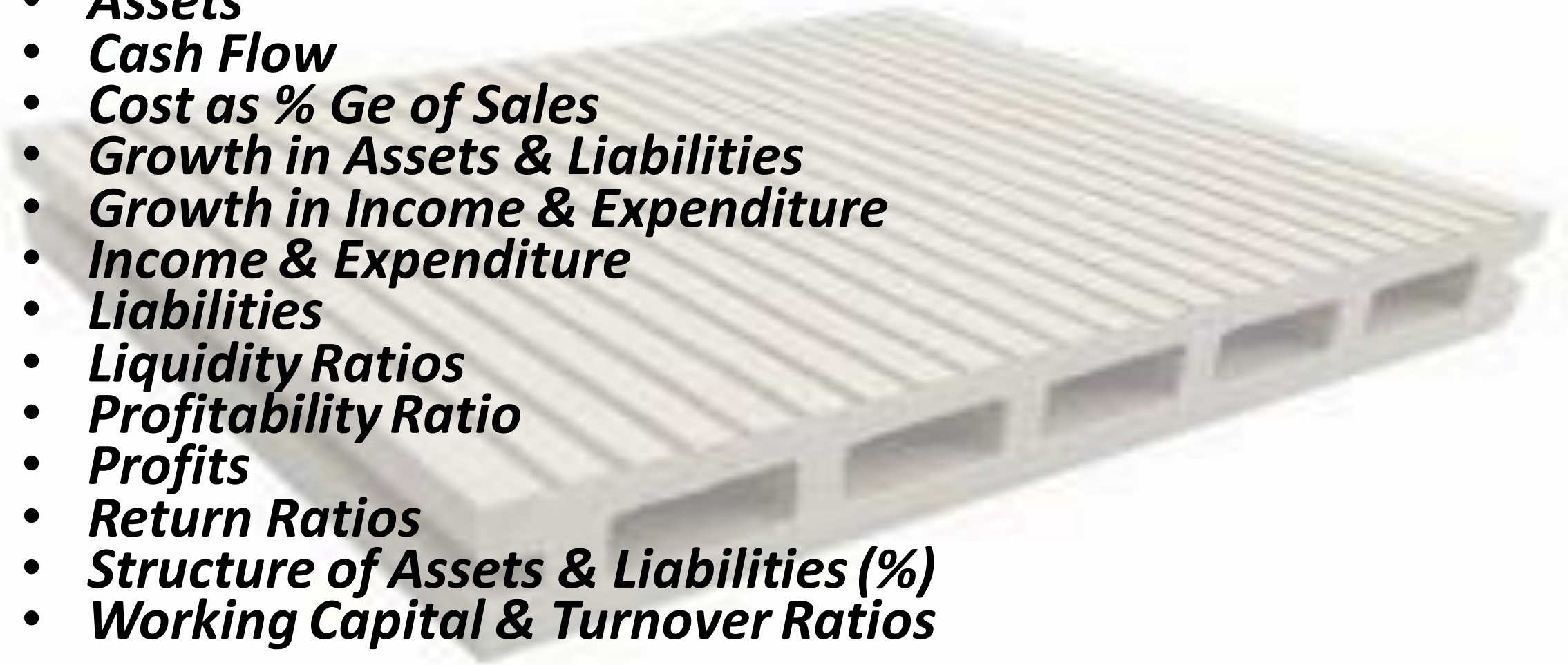

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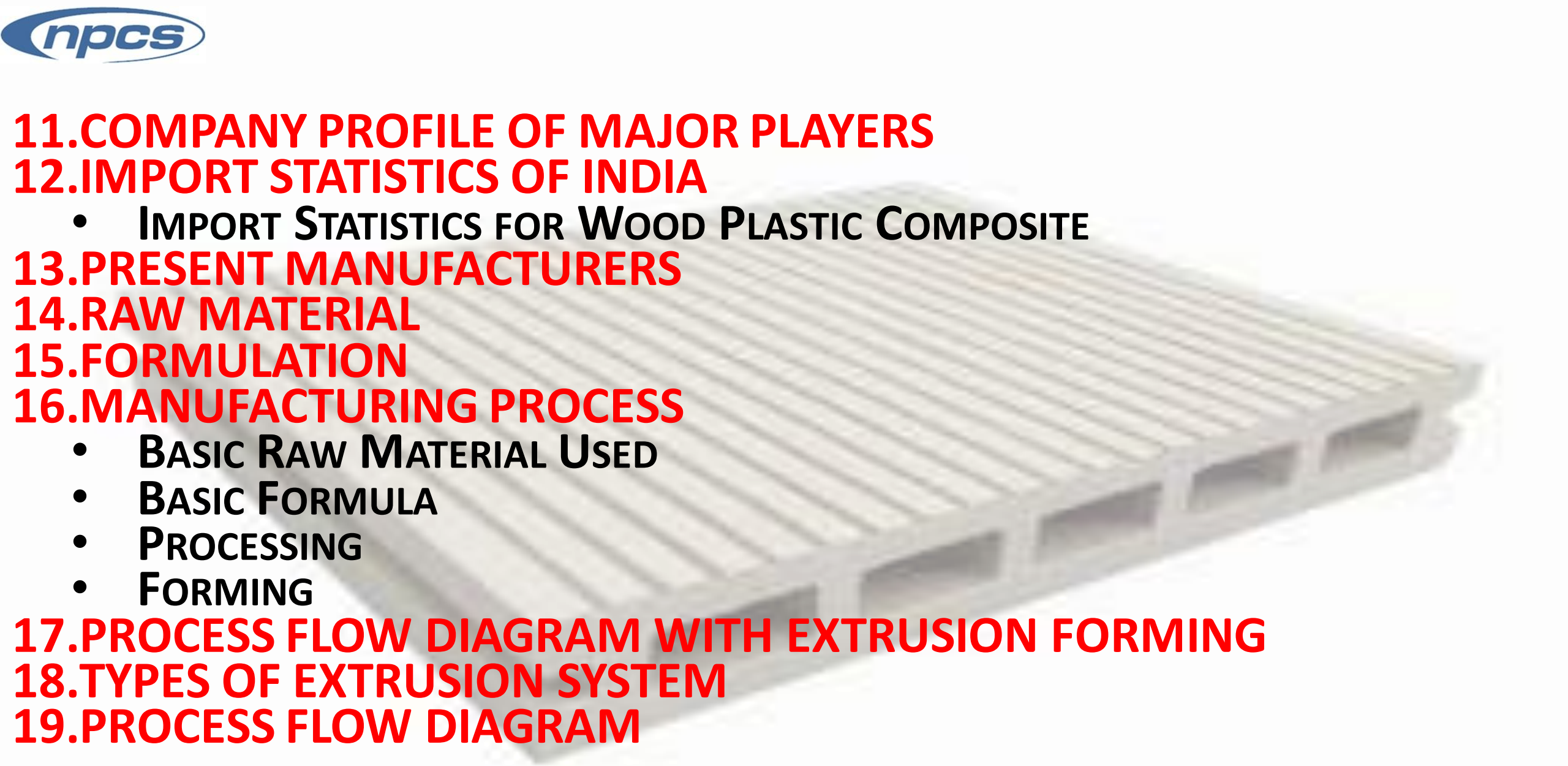

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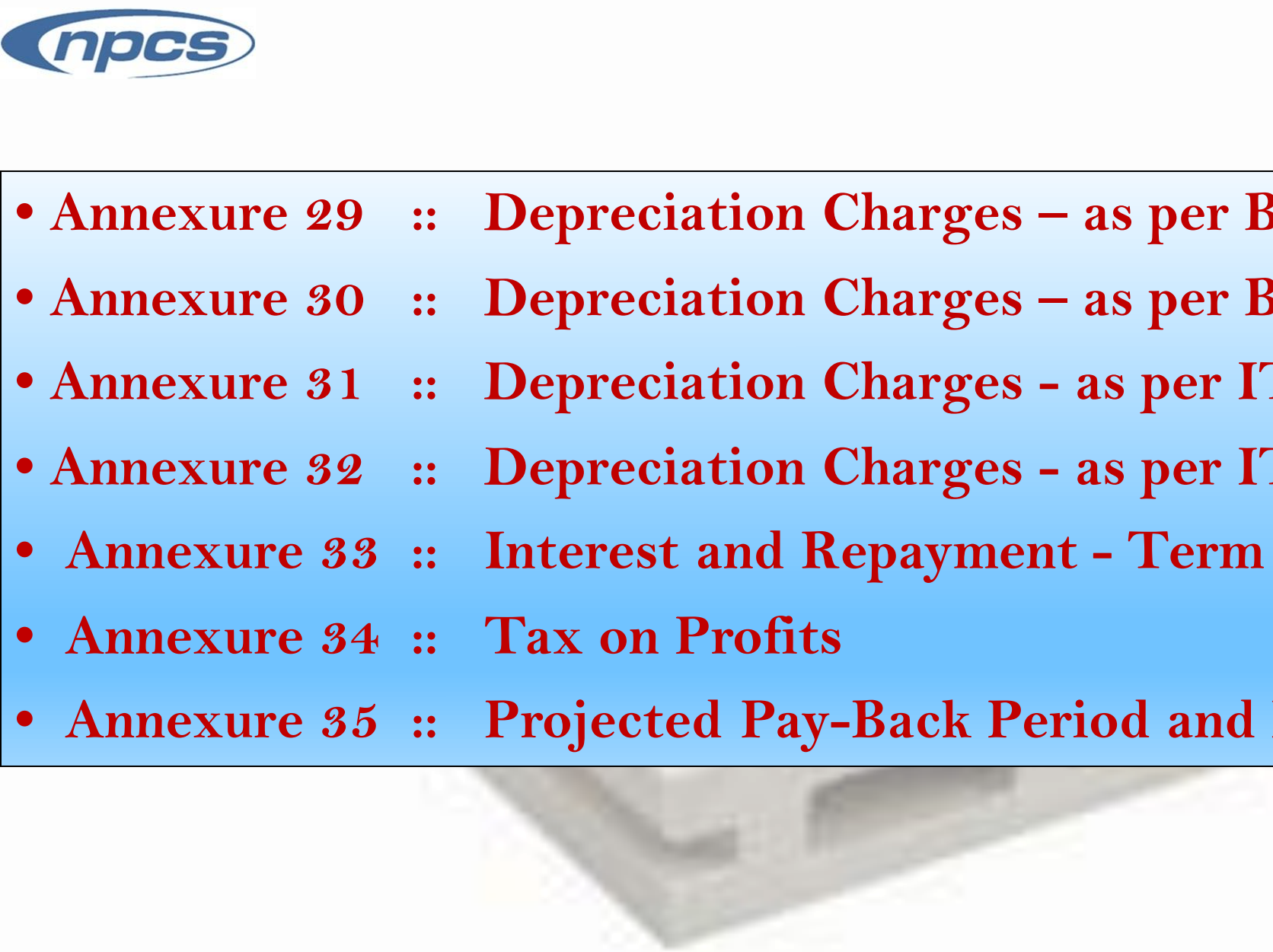

Reasons for Buying our Report:

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

Tags

#DetailedProjectReport #businessconsultant #BusinessPlan

#feasibilityReport #NPCS #StartupBusinessPlan

#startupinvestment #startup #bussinessplanshub

#Startupbusiness4you #StartupBusinessPlan

#startupinvestment #startup #InvestInStartups

#StartupIndiaConsultants #Plan4Business #StartupPlan

#InvestingCapitalForBusiness #WoodPlasticComposite

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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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- **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

NIIR PROJECT CONSULTANCY SERVICES

AN ISO 9001: 2015 CERTIFIED COMPANY

ABOUT US

- *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.

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)*

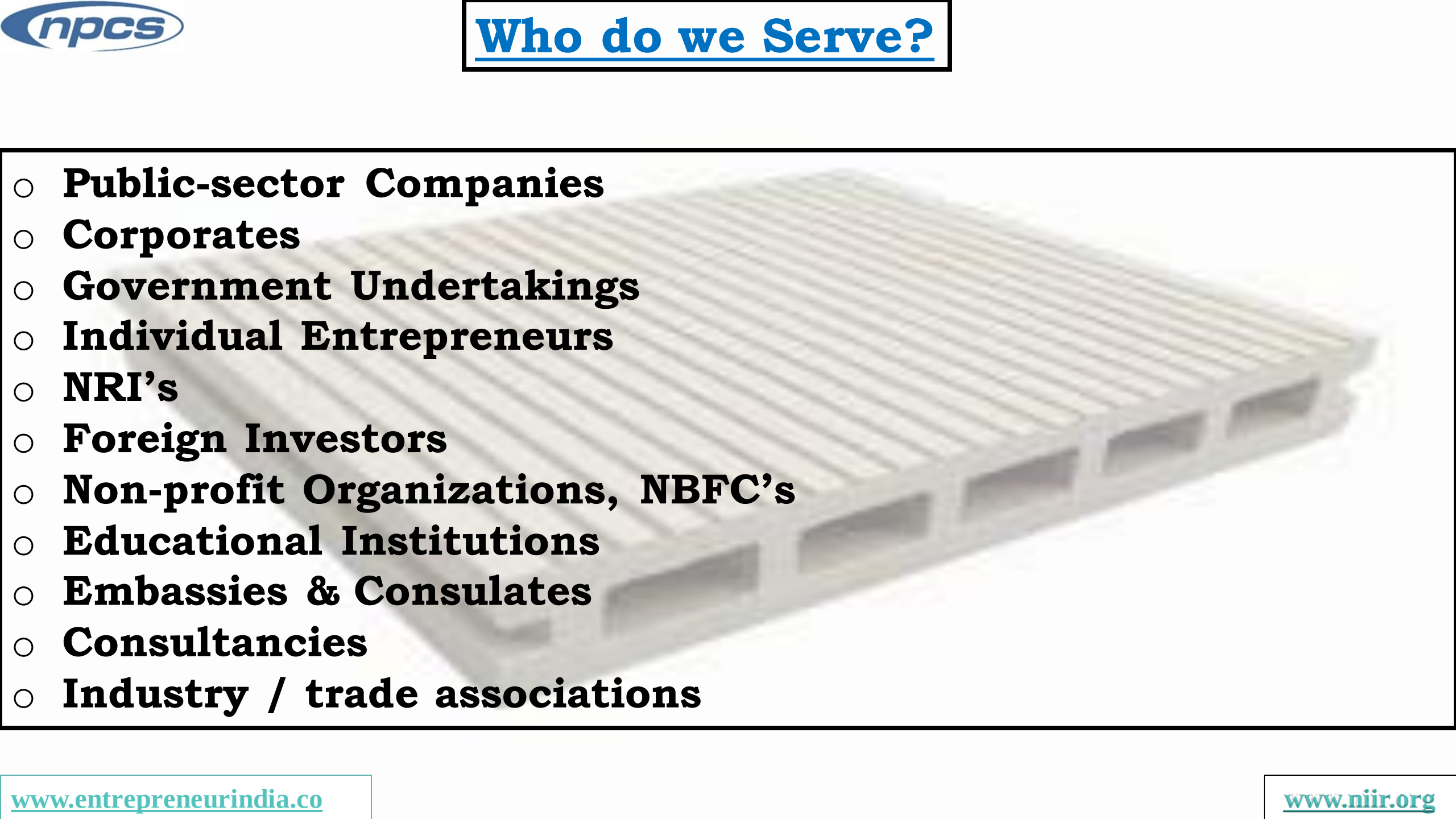
How are we different ?

- *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

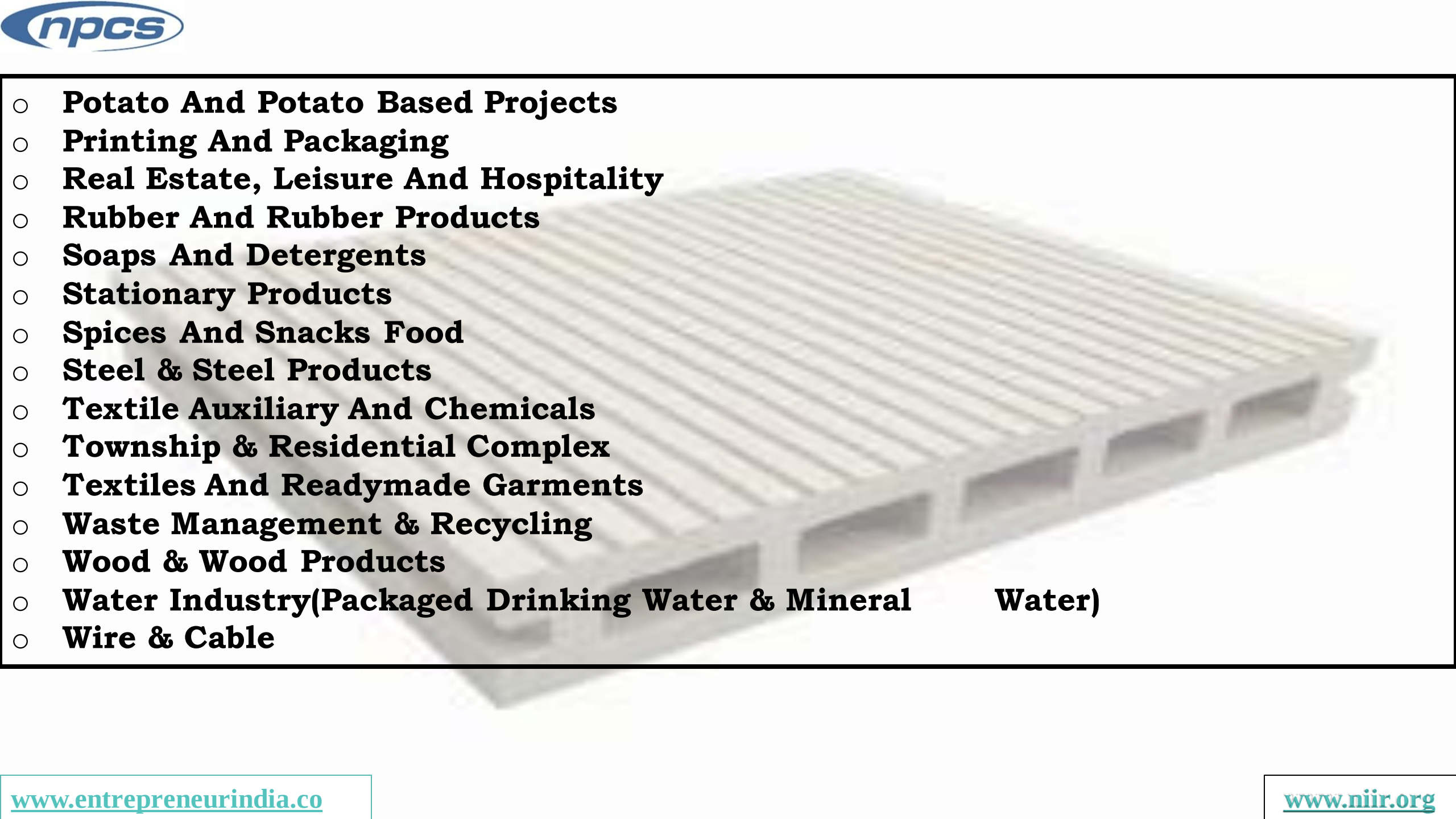
Sectors We Cover

- 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
- 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
- Fiber 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 & Hospitability 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



MARKET RESEARCH REPORT

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

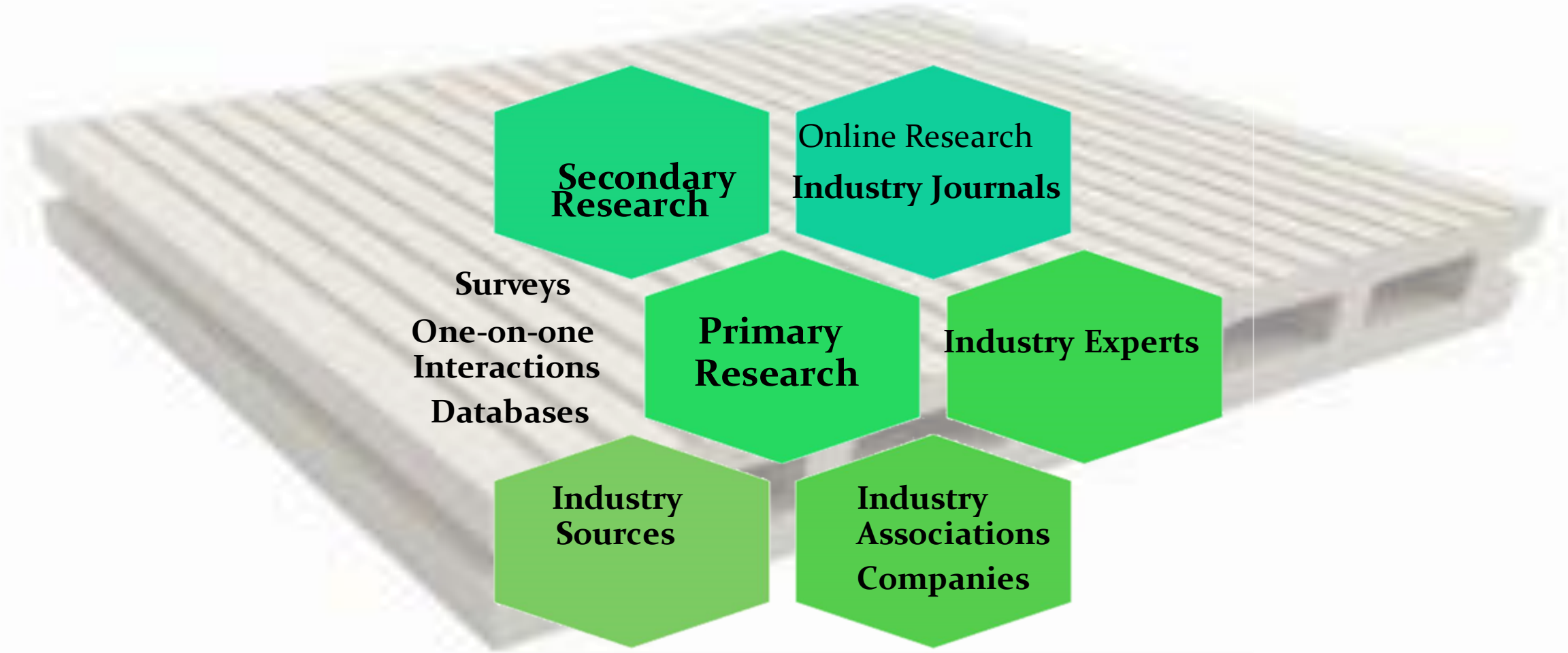
- To provide forecasts of key parameters which helps to anticipate the industry performance
- To help chart growth trajectory of a business by detailing the factors that affect the industry growth
- To help an entrepreneur/manager in keeping abreast with the changes in the industry
- To evaluate the 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
   - 2.1Growth Drivers
   - 2.2Emerging Trends in the Industry
   - 2.3Regulatory Framework
   - 2.4SWOT Analysis
   - 2.5Herfindahl–Hirschman Index (HHI)
3. Market Forecasts
4. Key Players
5. Key Financials and Analysis
   - 5.1 Contact Information
   - 5.2 Key Financials
   - 5.3 Financial comparison
   - 5.4 Industry Size & Outlook

Take a look at on #Street View

https://goo.gl/VstWkd

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Take a look at on #StreetView

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