
Start a Plastic Wood Composite Unit.

WPC Board Production
Wood Plastic Composite is a hybrid material which combines the qualities of wood and the ease of workability of plastic. It is a composite material which has replaced natural wood and is sustainable as it is made of waste wood and recycled plastic. It is widely used in outdoor decking floors, railings, fences, cladding, outdoor landscape, cornices, door and window frames, indoor furniture, outdoor furniture etc.
Wood used in bio-composites is often obtained from side streams of wood products and pulp production, making it a low cost feedstock and monetizing wood material that otherwise might be wasted. Wood wastes produced during manufacturing of wood-based products such as paper, cardboard, crates, pallets, furniture and by-products of textile industry could also serve as reinforcement in a matrix of plastic composites, depending on the availability and suitability of these recycled materials. The wood fiber could also be in the form of fines that are formed as residue in the transportation stage of industrial bioenergy pellets, which are often exported overseas.
The main advantages of using Wood Plastic Composite are:

- The material is very easy to maintain and clean.
- The material is resistant to ultra violet light and its colour does not fade easily.
- WPC Board is highly durable and is not affected by rain, snow or peak summer conditions.
- The material is slip resistant hence is a very good material when used as deck flooring especially near swimming pools.
- It is a very good cladding material and is highly weather resistant. It is available in many colours and textures which add to the beauty of the building.
- It is a costly material but is effective in the long run.
Market Outlook

WPC boards is achieving a good absorbency amongst plywood and natural wooden boards. Now, demand for exterior decking also is increasing. Thus India is using WPVC boards in versatile applications (in own style and methods) taking from bus flooring to fish boxes and wall paneling to serving trays.

The global wood plastic composite market size was estimated at USD 4.01 billion in 2017, progressing at a CAGR of 9.3% over the forecast period. Rising demand for lightweight and durable products in the automotive and construction industries is expected to drive demand over the coming years.
Wood Plastic Composite Market Size, by Type, 2014-2025 (USD Billion)
The building and construction sector is a leading consumer of WPC products, followed by the automotive and consumer goods industries. Leading manufacturers in the industry are focusing more on R&D pertaining to use of advanced polymers in order to improve durability. These composites are growing at the highest rate among the plastic additives. Innovative uses for wood-based composites are constantly accomplished. These hybrid materials provide sustainability, longevity, and cost savings in a wide array of applications such as car speakers, interiors, home furniture, and kitchen accessories.
The global wood plastic composites market is driven by high availability of non-utilized plastic and wood wastes, increase in demand from building & construction applications, and stringent regulations on the use of chemicals in building materials. However, rise in cost of raw materials and issues related to mechanical strength and/or weight hamper their potential for several structural applications. Conversely, increase in implementation of biodegradable raw materials is expected to create opportunities in the global WPC market. Market players have adopted merger as their key strategy to widen their brand portfolios and expand their market reach.
The global Wood Plastic Composite market has been divided into seven key geographical regions which includes, North America, Latin America, Western Europe, Eastern Europe, Asia Pacific, Japan, and Middle East & Africa. Asia Pacific will dominate the Wood Plastic composites market. Growth of construction industries in developing economies like India and China will drive the wood plastic composites market. Increasing use of wood plastic composites in infrastructure development will boost the wood plastic composites market. Asia Pacific is followed by North America. Increasing use of Wood Plastic Based decking will be major driving factor for the market in this region. Western Europe is anticipated to grow wood plastic composite market due to growth of automotive industries in Italy, Germany, France and UK. Infrastructure developments and Construction activities in Middle East and Africa will support the wood plastic composites market to grow.
Based on segmentation by application, the wood plastic composite (WPC) includes building and construction products, automotive components, industrial & consumer goods. Building & construction

Based on segmentation by type, the wood plastic composite (WPC) includes polyethylene (PE), polyvinylchloride (PVC) and polypropylene (PP). Polyethylene wood composite segment is also expected to grow at a positive CAGR and hold a significant share owing to its robust features.

The Applications of Wood-Plastic Composites market is used extensively for various purposes. Building and construction applications hold the largest share in WPC market.
Wood-plastic composites are made of wood fibre, thermoplastic, and other materials such as pigments, lubricants, blowing agents, and foaming agents, which are used in small quantities. The application of wood-plastic composites in automobiles is growing, due to the increasing awareness among customers about its various use and benefits. Industrial & consumer goods manufacturers constitute another large segment that uses wood plastic composites. The market for wood-plastic composites is experiencing high growth. With a number of market players involved in R&D, the applicability of WPCs in various application fields has increased exponentially over the past decade.
Major market players in the Global Wood-Plastic Composites market are:

- Advanced Environmental Recycling Technologies, Inc. (AERT)
- Certainteed
- Timbertech
- Universal Forest Products, Inc.
- Fiberon, Llc
Machinery Photographs

Extrusion Die and T Type Mold

Cooling Conveyor Bridge
Double Screw Extruder

Calibration Platform
## Project at a Glance

### Project at a Glance

<table>
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<tr>
<th>Particulars</th>
<th>Existing</th>
<th>Proposed</th>
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# Project at a Glance

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<th>P/E Ratio</th>
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## Project at a Glance

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<td>(Number of times)</td>
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<td>15.05%</td>
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## Project at a Glance

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<th>BEP</th>
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<td>BEP - Maximum Utilisation Year</td>
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<tr>
<td>Cash BEP (% of Installed Capacity)</td>
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<tr>
<td>Total BEP (% of Installed Capacity)</td>
<td>63.55%</td>
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### IRR, PAYBACK and FACR

| Internal Rate of Return (In %age) | 31.35%  |
| Payback Period of the Project is (In Years) | 2 Years 3 Months |
| Fixed Assets Coverage Ratio (No. of times) | 9.674    |
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?

7. What are the operating costs for setting up Wood Plastic Composite (WPC) Manufacturing plant?

8. What are the machinery and equipment requirements for setting up Wood Plastic Composite (WPC) Manufacturing plant?
9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Wood Plastic Composite (WPC) Manufacturing plant?

10. What are the requirements of raw material for setting up Wood Plastic Composite (WPC) Manufacturing plant?

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)?
13. What is the total size of land required for setting up Wood Plastic Composite (WPC) Manufacturing plant?

14. What will be the income and expenditures for Wood Plastic Composite (WPC) Manufacturing Business?

15. What are the Projected Balance Sheets of Wood Plastic Composite (WPC) Manufacturing plant?

16. What are the requirement of utilities and overheads for setting up Wood Plastic Composite (WPC) Manufacturing plant?

17. What is the Built up Area Requirement and cost for setting up Wood Plastic Composite (WPC) Manufacturing Business?
18. What are the Personnel (Manpower) Requirements for setting up Wood Plastic Composite (WPC) Manufacturing Business?

19. What are Statistics of Import & Export for Wood Plastic Composite (WPC)?

20. What is the time required to break-even of Wood Plastic Composite (WPC) Manufacturing Business?

21. What is the Break-Even Analysis of Wood Plastic Composite (WPC) Manufacturing plant?

22. What are the Project financials of Wood Plastic Composite (WPC) Manufacturing Business?
23. What are the Profitability Ratios of Wood Plastic Composite (WPC) Manufacturing Project?

24. What is the Sensitivity Analysis-Price/Volume of Wood Plastic Composite (WPC) Manufacturing plant?

25. What are the Projected Pay-Back Period and IRR of Wood Plastic Composite (WPC) Manufacturing plant?

26. What is the Process Flow Sheet Diagram of Wood Plastic Composite (WPC) Manufacturing project?
27. What are the Market Opportunities for setting up Wood Plastic Composite (WPC) Manufacturing plant?

28. What is the Market Study and Assessment for setting up Wood Plastic Composite (WPC) Manufacturing Business?

29. What is the Plant Layout for setting up Wood Plastic Composite (WPC) Manufacturing Business?
1. **PROJECT LOCATION**
   1.1. **DISTRICT PROFILE & GEOTECHNICAL SITE CHARACTERIZATION**
   1.1.1. General
   1.1.2. Location & Geographical Area
   1.1.3. Topography
   1.1.4. Demographics
   1.1.5. Map
   1.1.6. Geography
   1.1.7. Administrative set up
   1.1.8. Industry at a Glace
   1.1.9. Economy
   1.1.10. Transport
   1.1.11. Education

2. **INTRODUCTION**

3. **PROPERTIES**
   3.1. MECHANICAL PROPERTIES

4. **USE OF WPC**

5. **ADVANTAGES & DISADVANTAGES OF WPC**
   5.1. ADVANTAGES
   5.2. DISADVANTAGES
   5.3. ENVIRONMENTAL IMPACT

6. **B.I.S. SPECIFICATIONS**
   6.1. IS: 4835 – 1979
6.2. IS: 6219 – 1989

7. ASTM CODES & STANDARDS

8. MARKET SURVEY
8.1. PARTICLE BOARDS AND PLYWOOD
8.2. WOOD-PLASTIC COMPOSITES

9. EXPORT & IMPORT: ALL COUNTRIES
9.1. EXPORT: ALL COUNTRIES
9.2. IMPORT: ALL COUNTRIES

10. FINANCIALS & COMPARISON OF MAJOR PLAYERS/COMPANIES
10.1. ABOUT FINANCIAL STATEMENTS OF CMIE DATABASE
10.2. PROFITS & APPROPRIATIONS
10.3. TOTAL LIABILITIES
10.4. TOTAL ASSETS
10.5. NET CASH FLOW FROM OPERATING ACTIVITIES
10.6. SECTION – I
10.6.1. Name of Company with Contact Details
10.6.2. Name of Director(S)
10.6.3. Plant Capacity
10.6.4. Location of Plant
10.6.5. Name of Raw Material(S) Consumed With Quantity & Cost
10.7. SECTION – II
10.7.1. Assets
10.7.2. Cash Flow
10.7.3. Cost as % Ge of Sales
10.7.4. Forex Transaction
10.7.5. Growth in Assets & Liabilities
10.7.6. Growth in Income & Expenditure
10.7.7. Incorporation Year, industry Group, Industry Type and Main Product
10.7.8. Income & Expenditure
10.7.9. Liabilities
10.7.10. Liquidity Ratios
10.7.11. Profitability Ratio
10.7.12. Profits
10.7.13. Return Ratios
10.7.14. Stock Price and Ratio
10.7.15. Structure of Assets & Liabilities (%)
10.7.16. Working Capital & Turnover Ratios

11. EXPORT & IMPORT STATISTICS DATA OF INDIA
11.1. EXPORT: STATISTICS DATA FOR WOOD PLASTIC COMPOSITE
11.2. IMPORT: STATISTICS DATA FOR WOOD PLASTIC COMPOSITE

12. PRESENT MANUFACTURERS

13. RAW MATERIAL

14. FORMULATION

15. MANUFACTURING PROCESS
15.1. BASIC RAW MATERIAL USED
15.2. BASIC FORMULA
15.3. PROCESSING
15.4. FORMING

16. PROCESS FLOW DIAGRAM WITH EXTRUSION FORMING

17. TYPES OF EXTRUSION SYSTEM

18. PROCESS FLOW DIAGRAM

19. SCHEMATIC FLOW DIAGRAM OF WPC

20. BUYER’S LIST
20.1. CONTACT DETAILS OF BUYER’S
20.2. NAME OF DIRECTOR (S)
20.3. PLANT CAPACITY
20.4. LOCATION OF PLANT
20.5. COMPANY WISE CONSUMPTION DETAIL OF THE RAW MATERIALS

21. COMPRESSION MOLDING OR THERMOFORMING

22. SUPPLIERS OF PLANT & MACHINERY
23. SUPPLIERS OF RAW MATERIAL

24. PHOTOGRAPHS/IMAGES FOR REFERENCE

24.1. PRODUCT PHOTOGRAPHS
24.2. MACHINERY PHOTOGRAPHS
24.3. RAW MATERIAL PHOTOGRAPHS

25. PLANT LAYOUT

26. QUOTATION OF PLANT, MACHINERY AND EQUIPMENTS FROM SUPPLIER
Project Financials

- Project at a Glance
- Assumptions for Profitability workings
- Plant Economics
- Production Schedule
- Land & Building

Factory Land & Building
Site Development Expenses
- Plant & Machinery
  - Indigenous Machineries
  - Other Machineries (Miscellaneous, Laboratory etc.)

- Other Fixed Assets
  - Furniture & Fixtures
  - Pre-operative and Preliminary Expenses
  - Technical Knowhow
  - Provision of Contingencies

- Working Capital Requirement Per Month
  - Raw Material
  - Packing Material
  - Lab & ETP Chemical Cost
  - Consumable Store
• Overheads Required Per Month and Per Annum.........................8
  Utilities & Overheads (Power, Water and Fuel Expenses etc.)
  Royalty and Other Charges
  Selling and Distribution Expenses

• Salary and Wages ........................................................................9

• Turnover Per Annum .....................................................................10

• Share Capital ................................................................................11

  Equity Capital
  Preference Share Capital
• Annexure 1 :: Cost of Project and Means of Finance

• Annexure 2 :: Profitability and Net Cash Accruals

- Revenue/Income/Realisation
- Expenses/Cost of Products/Services/Items
- Gross Profit
- Financial Charges
- Total Cost of Sales
- Net Profit After Taxes
- Net Cash Accruals
• Annexure 3 :: Assessment of Working Capital requirements

  - Current Assets
  - Gross Working Capital
  - Current Liabilities
  - 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
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• 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.
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:
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.
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