

# **Tannin Based Wood Adhesive**

**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, Plant Layout, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis**

# Introduction

Tannin structure plays a determinant role in formulating tannin resin and adhesives for industrial use. Tannin adhesive has been used as a thermosetting wood adhesive for wood panels to reduce formaldehyde emission. Tannin adhesive gives excellent adhesive performance, good moisture resistance, and tends to give a lower formaldehyde emission. Tannin wood adhesive in a non formaldehyde approach has a low hardening rate and needs more pressing time than formaldehyde-based wood adhesives during wood composites production.

Hundreds of tonnes of tannin is produced from wood materials and wood bark for the needs of leather, beverage and animal feed industry. In industrial use, tannin could be used to replace fossil chemicals in adhesives and insulating foams. Tannin can be extracted from bark using hot water, after which the extract is dried into a powder. Drying the water extract into powder may not be necessary if the tannin is extracted near the site where glued wood products are manufactured. Tannin based wood adhesives have been used industrially for exterior wood bonding of products such as particleboard, plywood, glulam, and finger jointing.

Tannin is a component in a type of industrial particleboard adhesive and it has been investigated for the production of wood adhesives. Increasing demand for wood adhesives in various end-use industries is likely to boost tannin market over the next seven years. Tannin is a multi-purpose biomolecule that is extracted from plants and are employed in the manufacturing of pesticides. Demand for tannin is driven by increasing need for wood adhesives and anti-oxidant agents, on account of substantial growth in the furniture industry.

# Few Indian Major Players are as under

- Advanced Adhesives Ltd.
- Arofine Polymers Ltd.
- C I C O Technologies Ltd.
- Ciba India Ltd.
- F C L Technologies & Products Ltd.
- Feroke Boards Ltd.
- Henkel C A C Pvt. Ltd.

- India Tyre & Rubber Co. (India) Ltd.
- Jesons Industries Ltd.
- Jyoti Resins & Adhesives Ltd.
- Kitply Industries Ltd.
- Mica House Ltd.
- N G Adhesive Inds. Pvt. Ltd.
- Nikhil Adhesives Ltd.
- Pidilite Industries Ltd.
- Resinova Chemie Ltd.
- Uflex Ltd.

# Project at a Glance

| COST OF PROJECT                |          |          |        | MEANS OF FINANCE            |          |          |        |
|--------------------------------|----------|----------|--------|-----------------------------|----------|----------|--------|
| Particulars                    | Existing | Proposed | Total  | Particulars                 | Existing | Proposed | Total  |
| Land & Site Development Exp.   | 0.00     | 210.00   | 210.00 | Capital                     | 0.00     | 129.18   | 129.18 |
| Buildings                      | 0.00     | 141.00   | 141.00 | Share Premium               | 0.00     | 0.00     | 0.00   |
| Plant & Machineries            | 0.00     | 72.70    | 72.70  | Other Type Share Capital    | 0.00     | 0.00     | 0.00   |
| Motor Vehicles                 | 0.00     | 8.00     | 8.00   | Reserves & Surplus          | 0.00     | 0.00     | 0.00   |
| Office Automation Equipments   | 0.00     | 36.50    | 36.50  | Cash Subsidy                | 0.00     | 0.00     | 0.00   |
| Technical Knowhow Fees & Exp.  | 0.00     | 15.00    | 15.00  | Internal Cash Accruals      | 0.00     | 0.00     | 0.00   |
| Franchise & Other Deposits     | 0.00     | 0.00     | 0.00   | Long/Medium Term Borrowings | 0.00     | 387.53   | 387.53 |
| Preliminary& Pre-operative Exp | 0.00     | 2.00     | 2.00   | Debentures / Bonds          | 0.00     | 0.00     | 0.00   |
| Provision for Contingencies    | 0.00     | 7.00     | 7.00   | Unsecured Loans/Deposits    | 0.00     | 0.00     | 0.00   |
| Margin Money - Working Capital | 0.00     | 24.51    | 24.51  |                             |          |          |        |
| TOTAL                          | 0.00     | 516.71   | 516.71 | TOTAL                       | 0.00     | 516.71   | 516.71 |

# 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 |                         |
|      | Rs         | Rs    | Rs         | Rs    | Rs        | %                 | Rs    | %      | Rs                    |             | %                       |
| 1-2  | 6.89       | 9.37  | 16.89      | 24.00 | 0.00      | 100.00            | 6.89  | 0.00   | 6.89                  | 1.00        | 0.00                    |
| 2-3  | 9.75       | 11.94 | 26.64      | 18.00 | 0.00      | 100.00            | 9.75  | 0.00   | 9.75                  | 1.00        | 0.00                    |
| 3-4  | 12.58      | 14.52 | 39.22      | 12.00 | 0.00      | 100.00            | 12.58 | 0.00   | 12.58                 | 1.00        | 0.00                    |
| 4-5  | 15.35      | 17.07 | 54.57      | 6.00  | 0.00      | 100.00            | 15.35 | 0.00   | 15.35                 | 1.00        | 0.00                    |
| 5-6  | 18.03      | 19.56 | 72.60      | 0.00  | 0.00      | 100.00            | 18.03 | 0.00   | 18.03                 | 1.00        | 0.00                    |
|      |            |       |            |       |           |                   |       |        |                       |             |                         |

# Project at a Glance

| Year    | D. S. C. R.       |                |         | Debt / -<br>Deposit<br>s Debt | Equity<br>as-<br>Equity | Total<br>Net<br>Worth | Return<br>on Net<br>Worth | Profitability Ratio |        |        |                         |              | Assets<br>Turnover<br>Ratio | Current<br>Ratio |
|---------|-------------------|----------------|---------|-------------------------------|-------------------------|-----------------------|---------------------------|---------------------|--------|--------|-------------------------|--------------|-----------------------------|------------------|
|         | Individu<br>al    | Cumulati<br>ve | Overall |                               |                         |                       |                           | GPM                 | PBT    | PAT    | Net<br>Contrib<br>ution | P/V<br>Ratio |                             |                  |
|         | (Number of times) |                |         | (Number of<br>times)          |                         | %                     | %                         | %                   | %      | %      |                         | %            |                             |                  |
| Initial |                   |                |         | 3.00                          | 3.00                    |                       |                           |                     |        |        |                         |              |                             |                  |
| 1-2     | 1.36              | 1.36           |         | 1.42                          | 1.42                    | 1.99                  |                           | 19.31%              | 12.11% | 7.92%  | 413.66                  | 36.83<br>%   | 1.76                        | 0.95             |
| 2-3     | 1.69              | 1.52           |         | 0.68                          | 0.68                    | 1.09                  |                           | 20.81%              | 14.98% | 9.61%  | 482.56                  | 36.83<br>%   | 1.85                        | 1.31             |
| 3-4     | 2.08              | 1.69           | 2.08    | 0.31                          | 0.31                    | 0.63                  |                           | 21.83%              | 17.06% | 10.85% | 551.49                  | 36.83<br>%   | 1.84                        | 1.74             |
| 4-5     | 2.54              | 1.88           |         | 0.11                          | 0.11                    | 0.37                  |                           | 22.54%              | 18.57% | 11.77% | 620.43                  | 36.83<br>%   | 1.76                        | 2.23             |
| 5-6     | 3.10              | 2.08           |         | 0.00                          | 0.00                    | 0.22                  |                           | 23.01%              | 19.67% | 12.44% | 689.37                  | 36.83<br>%   | 1.65                        | 3.84             |

# Project at a Glance

## BEP

|                                     |        |
|-------------------------------------|--------|
| BEP - Maximum Utilisation Year      | 5      |
| Cash BEP (% of Installed Capacity)  | 43.71% |
| Total BEP (% of Installed Capacity) | 46.58% |

## IRR, PAYBACK and FACR

|                                               |                  |
|-----------------------------------------------|------------------|
| Internal Rate of Return .. ( In %age )        | 27.77%           |
| Payback Period of the Project is ( In Years ) | 2 Years 3 Months |
| Fixed Assets Coverage Ratio ( No. of times )  | 5.108            |

**Niir Project Consultancy Services (NPCS)**  
**can provide Detailed Project Report on**  
**Tannin Based Wood Adhesive**

**See more**

<https://goo.gl/5XT0jB>  
<https://goo.gl/CCEiPM>

# Major Queries/Questions Answered in the Report?

- 1. What is Tannin Based Wood Adhesive industry ?**
- 2. How has the Tannin Based Wood Adhesive industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of a Tannin Based Wood Adhesive Plant ?**
- 4. What are the requirements of Working Capital for setting up a Tannin Based Wood Adhesive plant ?**

- 5. What is the structure of the Tannin Based Wood Adhesive Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Tannin Based Wood Adhesive plant ?**
- 7. What are the operating costs for setting up a Tannin Based Wood Adhesive plant ?**
- 8. What are the machinery and equipment requirements for setting up a Tannin Based Wood Adhesive plant ?**

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up a Tannin Based Wood Adhesive plant ?**
- 10. What are the requirements of raw material for setting up a Tannin Based Wood Adhesive plant ?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up a Tannin Based Wood Adhesive plant ?**
- 12. What is the Manufacturing Process and Formulations of a Tannin Based Wood Adhesive plant ?**

- 13. What is the total size of land required for setting up a Tannin Based Wood Adhesive plant ?**
- 14. What will be the income and expenditures for a Tannin Based Wood Adhesive plant ?**
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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 Tannin Based Wood Adhesive” provides an insight into the Tannin Based Wood Adhesive market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Tannin Based Wood Adhesive project. The report assesses the market sizing and growth of the Indian Tannin Based Wood Adhesive 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 Tannin Based Wood Adhesive sector in India along with its business prospects. Through this report we have identified Tannin Based Wood Adhesive project as a lucrative investment avenue.**

**Niir Project Consultancy Services (NPCS)**  
**can provide Detailed Project Report on**  
**Tannin Based Wood Adhesive**

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# ***NIIR PROJECT CONSULTANCY SERVICES***

**An ISO 9001:2008 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*

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

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

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

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

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

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

# 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*

# Contact us

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