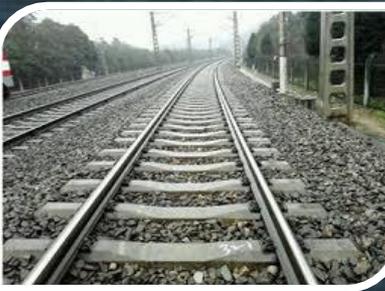


Railway Sleepers Manufacturing.

PSC Sleepers for Railways.

Production of Prestressed Concrete Railway Sleepers



Introduction

Prestressed concrete sleepers (or railroad ties) are principally designed in order to carry wheel loads from the rails to the ground as well as to secure rail gauge for dynamic safe movements of trains. In spite of the most common use of the prestressed concrete sleepers in railway tracks, the concrete sleepers are often modified on construction sites to fit in other systems such as cables, signaling gears, drainage pipes, etc. Railway sleepers, also called railroad ties, railway ties or crossties, are an important railway component.



Generally, the rail sleeper is always laying between two rail tracks to keep the correct space of gauge. A concrete sleeper is a type of railway sleeper made out of steel reinforced concrete. Concrete is good in resisting compressive stress but is very weak in resisting tensile stresses. Hence reinforcement is provided in the concrete wherever tensile stress is expected. Since elastic modulus of steel is quite high compared to concrete, the force developed in steel is high. A cage of reinforcements is prepared as per the design requirements, kept in the form work and then green concrete is poured.



Market Outlook

Indian railways is world's largest railway network. Railways in India consume at about 350 Million concrete sleepers. The demand of such sleepers including Private players is expected to double to nearly 700 million sleepers in next 2 years. The Indian Railways is among the world's largest rail networks. The Indian Railways network is spread over 115,000 km, with 12,617 passenger trains and 7,421 freight trains each day from 7,172 stations plying 23 million travelers and 3 million tons (MT) of freight daily. The railway network is also ideal for long-distance travel and movement of bulk commodities, apart from being an energy efficient and economic mode of conveyance and transport. The Government of India has focused on investing on railway infrastructure by making investor-friendly policies.

It has moved quickly to enable Foreign Direct Investment (FDI) in railways to improve infrastructure for freight and high-speed trains. At present, several domestic and foreign companies are also looking to invest in Indian rail projects.

Global Railway Sleepers market size will increase to 980 Million US\$ by 2025, from 710 Million US\$ in 2018, at a CAGR of 4.7% during the forecast period. South America hold a market share of 6.63% will still play an important role which cannot be ignored. Any changes from Asia-Pacific might affect the development trend of Railway Sleepers. North America also play important roles in global market. Railway sleepers are predominantly produced from wood or concrete. Wooden sleepers are usually produced from hardwood, although soft wood is also possible depending on the application. Before the appearance of Concrete Sleepers,

steel sleepers were also commonly used in the construction of railway tracks. Concrete sleepers can be produced from both new and recycled concrete. A railway sleeper is a rectangular support for the rails in railroad tracks. Generally laid perpendicular to the rails, ties transfer loads to the track ballast and subgrade, hold the rails upright and keep them spaced to the correct gauge. Railway sleepers are traditionally made of wood, but pre-stressed concrete is now also widely used, especially in Europe and Asia. Steel ties are common on secondary lines in the UK plastic composite ties are also employed, although far less than wood or concrete. From the view of region, Asia-Pacific and Europe have a larger sales market share in 2018 which together account for 74.02%, and will witness a stable growth in following years.

Key Player

Abetong, Kirchdorfer Group, Austrak, Patil Group, Aveng Infraset, The Indian Hume Pipe, Schwihag, BSW Timber, Biatec Group (Quercus), Shandong High Speed Rail Equipment Material, Weihai Ruihe Railway Sleeper, Hengchang Railroad Sleeper, Kunming Railway Sleeper, Jingzhou Fengyuan, Bemco Sleepers Limited Khandwa, Daya Engineering Work Poles Pvt. Ltd, Kaprecon Sleeper Works Pvt. Ltd, Malu Sleepers Maharashtra Pvt. Ltd, Stresscrete Pvt. Ltd, Patil Rail Infrastructure PVt LTd Udvada, S.Subrahmanyam and Co Kharsalia, Usha prestressed sleeper udyog Godhra, Vaman Prestressing Co Pvt Ltd Digsar,

Machinery Photographs



Finished Product Transport Car



Finished Product Stacker



Mould Roller Conveyors



Sleeper Automatic Tension 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	75.00	75.00	Capital	0.00	561.33	561.33
Buildings	0.00	384.50	384.50	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	1471.78	1471.78	Other Type Share	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	70.50	70.50	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	20.00	20.00	Internal Cash	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Accruals	0.00	0.00	0.00
Preliminary & Pre-operative Exp	0.00	3.00	3.00	Long/Medium Term Borrowings	0.00	1683.99	1683.99
Provision for Contingencies	0.00	145.00	145.00	Debentures / Bonds	0.00	0.00	0.00
Margin Money - Working Capital	0.00	65.54	65.54	Unsecured Loans/Deposits	0.00	0.00	0.00
TOTAL	0.00	2245.32	2245.32	TOTAL	0.00	2245.32	2245.32



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	4.64	9.81	14.64	24.00	0.00	100.00	4.64	0.00	4.64	1.00	0.00
2-3	6.96	11.40	21.61	18.00	0.00	100.00	6.96	0.00	6.96	1.00	0.00
3-4	9.31	13.13	30.92	12.00	0.00	100.00	9.31	0.00	9.31	1.00	0.00
4-5	11.65	14.94	42.57	6.00	0.00	100.00	11.65	0.00	11.65	1.00	0.00
5-6	13.97	16.79	56.54	0.00	0.00	100.00	13.97	0.00	13.97	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	1.41	1.41		1.64	1.64	2.06		16.95%	9.74%	7.94%	1268.80	38.62%	1.32	0.92
2-3	1.63	1.51		0.83	0.83	1.16		20.00%	14.67%	10.19%	1480.02	38.62%	1.47	1.34
3-4	1.90	1.63	1.91	0.39	0.39	0.65		22.08%	18.19%	11.93%	1691.44	38.62%	1.54	1.82
4-5	2.25	1.77		0.14	0.14	0.35		23.52%	20.74%	13.28%	1902.87	38.62%	1.53	2.36
5-6	2.67	1.91		0.00	0.00	0.18		24.52%	22.63%	14.32%	2114.29	38.62%	1.47	4.73



Project at a Glance

BEP	
BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	33.90%
Total BEP (% of Installed Capacity)	41.40%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	24.77%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	4.754

Major Queries/Questions Answered in the Report?

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

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

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



- 13. What is the total size of land required for setting up Prestressed concrete sleepers Manufacturing plant ?**
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- 26. What is the Process Flow Sheet Diagram of Prestressed concrete sleepers Manufacturing project?**

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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**
- **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**

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

Tags

**#Manufacturer_of_Prestressed_Concrete_Railway_Sleepers,
#Concrete_Railway_Sleepers_Manufacturing_Plant,
#Concrete_Sleeper_Manufacturers_&_Suppliers_in_India,
#Business_Opportunity_Pre_Stressed_Concrete_Sleepers,
#Concrete_Railway_Sleepers_Manufacturing_Plant_in_Project,
#Concrete_sleeper_production_plants, #Concrete_Sleeper_Plants,
#Concrete_Sleeper_Manufacturers,
#Concrete_sleepers_Manufacturing_Process, #Concrete_Sleeper_Production,
#Manufacturer_of_Prestressed_Concrete_Railway_Sleepers, sleeper
manufacturing process, Concrete Sleeper Production Plant, Production of
Concrete Sleepers, Production of Concrete Railway Sleepers, Concrete
Railway Sleeper Production, Concrete Sleeper Production, Concrete
Sleepers for Railways, Production of Concrete Sleeper in India, Railway
Sleepers, Concrete Sleeper Manufacturing Company, Production of Sleepers
from Concrete, Concrete Railway Sleepers Manufacturing Plant, Concrete
Sleeper Plant, Concrete Sleeper Factory, Railway Sleeper Precast Factory,
Sleeper Plant and Production, Railway Sleepers Manufacturing Process,
Production Process of RCC Sleepers, Railway Sleeper Plant, Concrete
Sleeper Manufacturing Factory, Manufacture of Concrete Sleepers,
Manufacturing Process of Prestressed concrete sleepers, Prestressed
concrete sleepers Manufacturing Factory,**

Precast Concrete Sleepers Production, Precast Sleeper Production, Concrete Railway Sleepers Manufacturing Plant, Prestressed concrete sleepers for Railway Track, Prestressed concrete sleepers Production, Reinforced Cement Concrete Sleepers Production, Manufacturing Plant of Prestressed concrete sleepers, Prestressed concrete sleepers Production project ideas, Projects on Small Scale Industries, Small scale industries projects ideas, Concrete Sleeper Production Based Small Scale Industries Projects, Project profile on small scale industries, How to Start Concrete Sleeper Production Industry in India, Prestressed concrete sleepers Production Projects, New project profile on Concrete Sleeper Production industries, Project Report on Prestressed concrete sleepers Production Industry, Detailed Project Report on Prestressed concrete sleepers Production, Project Report on Prestressed concrete sleepers Production, Pre-Investment Feasibility Study on Concrete Sleeper Production, Techno-Economic feasibility study on Concrete Sleeper Production, Feasibility report on Concrete Sleeper Production, Free Project Profile on Concrete Sleeper Production, Project profile on Concrete Sleeper Production, Download free project profile on Prestressed concrete sleepers Production, Industrial Project Report, Project consultant, Project consultancy, Project identification and selection, Preparation of Project Profiles, Business guidance to clients, Startup Project for Concrete Sleeper Production, Business Plan for a Startup Business

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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:

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- **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

NIIR PROJECT CONSULTANCY SERVICES

106-E, Kamla Nagar, Opp. Spark Mall,

New Delhi-110007, India.

Email: npcs.ei@gmail.com , info@entrepreneurindia.co

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23845886

Website : www.entrepreneurindia.co , www.niir.org

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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



Contact us

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Mobile: +91-9811043595

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