

Concrete Railway Sleepers Manufacturing Plant.

Concrete Sleeper Factory.

Precast RCC Sleeper.

**Production of Reinforced Cement Concrete
Sleepers for Railway Track.**



Introduction

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.

After the concrete hardens, the form work is removed. The composite material of steel and concrete, now called R.C.C. acts as a structural member and can resist tensile as well as compressive forces efficiently.

R.C.C (Reinforced Cement Concrete) and prestressed concrete sleepers are now replacing other types of sleepers except in some special circumstances like bridges etc. where wooden sleepers are used.

Advantages of R.C.C. Sleepers

- **Concrete sleepers have long life, generally 40 to 60 years.**
- **These are free from natural decay and attack by insects' etc.**
- **These sleepers require less fittings.**
- **Track circuiting is possible in these sleepers.**
- **These sleepers provide more lateral and longitudinal rigidity as compared to other sleepers.**
- **The maintenance cost is low.**
- **Due to higher elastic modulus, these can withstand the stresses due to fast moving trains.**

Indian Railways

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 travellers and 3 million tonnes (MT) of freight daily. India's railway network is recognised as one of the largest railway systems in the world under single management.

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.

During FY 2016-17, the passenger traffic of Indian Railways grew 0.8 per cent to 8,219.38 million, with passenger revenue growth of 4.6 per cent at Rs 47,449.75 crore (US\$ 7.37 billion). The overall revenue of Indian Railways grew 8.7 per cent year-on-year to Rs 15,884.58 crore (US\$ 2.47 billion) during March 2017. The passenger earnings grew 10.1 per cent to Rs 4,205.29 crore (US\$ 652.90 million) and the freight earnings grew 4.1 per cent to Rs 10,273.20 crore (US\$ 1.60 billion) during March 2017.

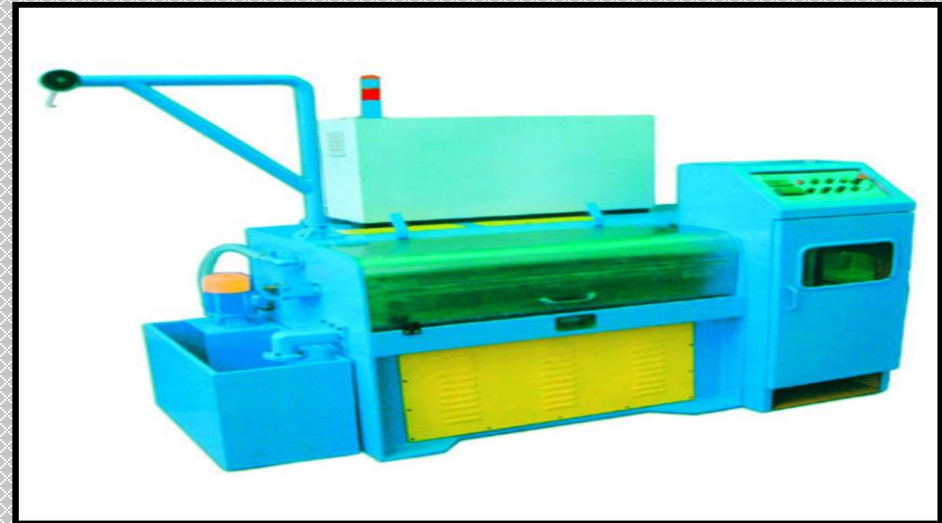
The revenue generated by the Railways is expected to grow at 10 per cent in the fiscal year 2017-18. The Union Budget 2017-18 has estimated that the overall earnings will rise to Rs 189,498.37 crore (US\$ 28.42 billion) in 2017-18, compared to Rs 172,305 crore (US\$ 25.84 billion) in the fiscal year 2016-17.

Foreign Direct Investment (FDI) inflows into Railways related components from April 2000 to March 2017 were US\$ 798.55 million.

Machinery Photographs



Wire Cutting Machine



Wire Drawing Machine



Vibrating Table



Boiler



Fuel Storage Tank



Air Compressor

Few Indian Major Players are as under

- **Bemco Sleepers Ltd.**
- **Dony Polo Udyog Ltd.**
- **GPT Infraprojects Ltd.**
- **Hindustan Prefab Ltd.**
- **Indian Hume Pipe Co. Ltd.**

Project at a Glance

PROJECT AT A GLANCE				(₹ in lacs)			
COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	50.00	50.00	Capital	0.00	492.41	492.41
Buildings	0.00	126.60	126.60	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	1508.67	1508.67	Capital	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	78.00	78.00	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	1477.22	1477.22
Preliminary& Pre-operative Exp	0.00	2.00	2.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	130.00	130.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	49.36	49.36				
TOTAL	0.00	1969.63	1969.63	TOTAL	0.00	1969.63	1969.63



Project at a Glance

Year	Annualised		Book Value	Debt	Divide nd	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	4.95	10.42	14.95	24.00	0.00	100.00	4.95	0.00	4.95	1.00	0.00
2-3	7.25	11.92	22.21	18.00	0.00	100.00	7.25	0.00	7.25	1.00	0.00
3-4	9.60	13.59	31.81	12.00	0.00	100.00	9.60	0.00	9.60	1.00	0.00
4-5	11.95	15.36	43.76	6.00	0.00	100.00	11.95	0.00	11.95	1.00	0.00
5-6	14.28	17.20	58.04	0.00	0.00	100.00	14.28	0.00	14.28	1.00	0.00



Project at a Glance

Year	D. S. C. R.			Debt / - Depos its Debt	Equity as- Equity	Total Net Worth	Retur n on Net Worth	Profitability Ratio					Assets Turnov er Ratio	Curre nt Ratio
	Individ ual	Cumulat ive	Overa ll					GPM	PBT	PAT	Net Contri bution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%		%		
Initial				3.00	3.00									
1-2	1.47	1.47		1.60	1.60	1.95		19.14 %	11.22%	9.41%	1084. 41	41.84 %	1.20	0.95
2-3	1.69	1.58		0.81	0.81	1.08		22.61 %	16.79%	11.81 %	1264. 97	41.83 %	1.34	1.44
3-4	1.96	1.69	1.98	0.38	0.38	0.59		24.96 %	20.74%	13.68 %	1445. 67	41.83 %	1.39	2.00
4-5	2.31	1.83		0.14	0.14	0.31		26.59 %	23.61%	15.14 %	1626. 38	41.83 %	1.38	2.63
5-6	2.74	1.98		0.00	0.00	0.15		27.72 %	25.72%	16.28 %	1807. 08	41.83 %	1.32	5.62



Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	30.55%
Total BEP (% of Installed Capacity)	38.51%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	26.27%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	4.422



Major Queries/Questions Answered in the Report?

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

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

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up RCC Railway Sleepers Manufacturing plant ?**
- 10. What are the requirements of raw material for setting up RCC Railway Sleepers Manufacturing Business?**
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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 RCC Railway Sleepers Manufacturing” provides an insight into the RCC Railway Sleepers Manufacturing market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of RCC Railway Sleepers Manufacturing project. The report assesses the market sizing and growth of the Indian RCC Railway Sleepers Manufacturing 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 RCC Railway Sleepers Manufacturing sector in India along with its business prospects. Through this report we have identified RCC Railway Sleepers Manufacturing project as a lucrative investment avenue.

Concrete Sleeper Production Plant, Production of Concrete Sleepers, Sleeper Production, 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 RCC Sleepers, RCC Sleeper Manufacturing Factory, Precast Concrete Sleepers Production, Precast Sleeper Production, Concrete Railway Sleepers Manufacturing Plant, RCC Sleeper for Railway Track, RCC Sleepers Production, Reinforced Cement Concrete Sleepers Production, Manufacturing Plant of Reinforced Cement Concrete Sleepers, RCC 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, Reinforced Cement Concrete Sleepers Production Projects, New project profile on Concrete Sleeper Production industries,

Project Report on Reinforced Cement Concrete Sleepers Production Industry, Detailed Project Report on RCC Sleepers Production, Project Report on RCC Sleepers Production, Pre-Investment Feasibility Study on Concrete Sleeper Production, Techno-Economic feasibility study on Reinforced Cement Concrete Sleepers Production, Feasibility report on RCC Sleepers Production, Free Project Profile on Concrete Sleeper Production, Project profile on Reinforced Cement Concrete Sleepers Production, Download free project profile on Reinforced Cement Concrete Sleepers Production, Industrial Project Report, Project consultant, Project consultancy, NPCS, Niir, Process technology books, Business consultancy, Business consultant, Project identification and selection, Preparation of Project Profiles, Startup, Business guidance, Business guidance to clients, Startup Project for Concrete Sleeper Production, Startup Project, Startup ideas, Project for startups, Startup project plan, Business start-up, Business Plan for a Startup Business, Great Opportunity for Startup, Small Start-up Business Project, Project report for bank loan, Project report for bank finance, Project report format for bank loan in excel, Excel Format of Project Report and CMA Data, Project Report Bank Loan Excel, Detailed Project Plan Report

**Niir Project Consultancy Services (NPCS)
can provide Detailed Project Report on
Concrete Railway Sleepers Manufacturing
Plant.**

Concrete Sleeper Factory.

Precast RCC Sleeper.

**Production of Reinforced Cement Concrete
Sleepers for Railway Track.**

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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.



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**

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](#)



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- *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



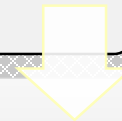
Thorough analysis of the project



Economic feasibility study of the Project



Market potential survey/research



Report Compilation

Contact us

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Take a look at NIIR PROJECT CONSULTANCY SERVICES on #StreetView

<https://goo.gl/VstWkd>



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