



# **HT (High Tensile Wire) Manufacturing Industry.**

**Production of High Tensile Steel Wire for Prestressed Concrete Poles and Railway Sleepers**

[NPCS/4874/22996]

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# Introduction

**High tensile wire is galvanized and used for security usage or together used with vineyard for plant support. They are presented in low relaxation and high relaxation. High tensile wires are those which can withstand great strain without breaking or becoming deformed.**



**High tensile wire is made with higher carbon steel. The increased carbon content increases the wire's strength and elongation. As the carbon percentage content rises, steel has the ability to become harder and stronger through heat treating; however, it becomes less ductile. Regardless of the heat treatment, a higher carbon content reduces weldability. In carbon steels wire, the higher carbon content lowers the melting point.**

**It is extensively used for encouragement in many different types industries. The Wire is used in the Electricity Poles, Railway Sleepers, Hume Pipes, Bridge Constructions, Silos, Buildings, Dams, Atomic Reactors, Airport, Hanger Runways, Slid Slab, Girders and many other users.**

## ***Application:***

- **Pole reinforcement**
- **Pre-stressed concrete Pipes**
- **Railway Sleeper**

## ***Advantages:***

- **Improves the bond strength between pre-stressed steel wire and concrete**
- **Reduces the frictional losses between pre-stressed wire and concrete**
- **Increases the anchorage efficiency**
- **Maintains higher effective pre-stressing force in the structure**
- **Reduces the number of operations at the customer end**

# Market Outlook

**It is highly famous in the market due to its high quality and hassle free range, at very low prices. The Indian steel wire industry has an annual capacity of 2.5 million tonnes (value: Rs 8,000 crore) approximately. About 70% of the total production comes from the organised producers and the remainder is from the unorganised sector.**



# Steel Wires

## **Demand : Past and Future**

<b>Year</b>	<b>(In Million Metric Tonne)</b>
<b>1990-91</b>	0.85
<b>2000-01</b>	1.62
<b>2001-02</b>	1.73
<b>2002-03</b>	1.82
<b>2003-04</b>	1.94
<b>2004-05</b>	2.06
<b>2005-06</b>	2.19
<b>2006-07</b>	2.33
<b>2007-08</b>	2.49
<b>2008-09</b>	2.65
<b>2009-10</b>	2.83
<b>2010-11</b>	3.02
<b>2011-12</b>	3.21
<b>2012-13</b>	3.40
<b>2013-14</b>	3.60
<b>2014-15</b>	3.80
<b>2015-16</b>	4.00
<b>2016-17</b>	4.25
<b>2017-18</b>	4.45
<b>2018-19</b>	4.75
<b>2019-20</b>	5.03
<b>2024-25</b>	6.50

**The global market for Steel Wire is projected to exceed US\$29 billion metric tons by 2024, driven by stable economic conditions across the world, leading to widespread demand creation across emerging as well as developed markets.**

**Produced from wire rods, a finished long steel product, steel wires find their use in several end-use application areas. Construction, machinery and automotive markets especially present significant opportunities for use of steel wires in a range of application areas. For instance, in the building construction sector, steel wires are used for fencing, anchorage, balustrading, and binding among other major applications.**





**Steel wires are also used in a range of infrastructure constructions such as suspension bridges, which are hung using steel ropes spun with thousands of steel wires together. Steel wires also find use for general engineering applications in machinery and heavy equipment. In automotive market, steel wires are used for reinforcing tires to add to their strength and durability required for modern day driving requirements. Agriculture land fencing is also made by steel wires. Besides, the steel wire industry is engaged in the production of a wide range of products such as steel cords used in reinforcing hoses. Wires are also used in manufacturing saw wire, which are employed in the slicing of silicon wafers.**





**The construction sector is one of the most prominent end-use markets for steel wires globally. The construction sector typically uses steel wires not only in its primary wire form but also has wide ranging application for derived products such as wire mesh, strands and wire ropes and regularly uses it for imparting structural strength to concrete structures.**



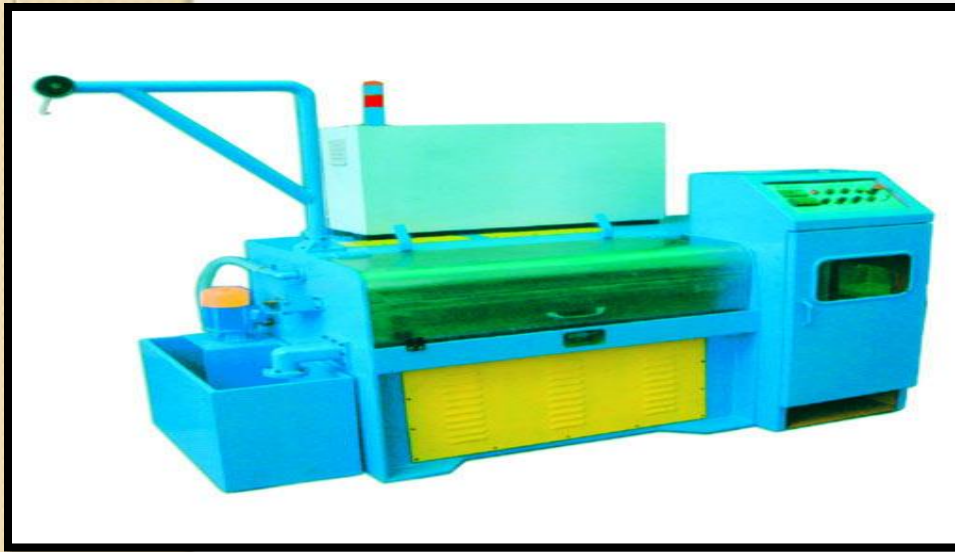
## ***Top Players Including:***

- **Ansteel Group**
- **ArcelorMittal**
- **China Baowu Steel Group**
- **Bridon International**
- **Gerdau**
- **HBIS**
- **Heico Wire**
- **Davis Wire**
- **National Standard**
- **Insteel Industries**
- **JFE Steel**
- **Jiangsu Shagang**
- **Kobe Steel**





# Machinery Photographs



**Wire Drawing Machine**



**Wire Decoiling Machines**



**Wire Straightening and Cutting Machines**



**Wire Cutting Machine**

# Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existin g	Propose d	Total	Particulars	Existin g	Propos ed	Total
Land & Site							
Development Exp.	0.00	260.00	260.00	Capital	0.00	239.48	239.48
Buildings	0.00	239.75	239.75	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	224.55	224.55	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	53.50	53.50	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow				Internal Cash			
Fees & Exp.	0.00	25.00	25.00	Accruals	0.00	0.00	0.00
Franchise & Other				Long/Medium Term			
Deposits	0.00	0.00	0.00	Borrowings	0.00	718.44	718.44
Preliminary& Pre-				Debentures /			
operative Exp	0.00	3.00	3.00	Bonds	0.00	0.00	0.00
Provision for				Unsecured			
Contingencies	0.00	22.00	22.00	Loans/Deposits	0.00	0.00	0.00
Margin Money -							
Working Capital	0.00	122.12	122.12				
TOTAL	0.00	957.92	957.92	TOTAL	0.00	957.92	957.92

# 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				
	`	`	`	`	`	%	`	%	`	s	%
1-2	6.01	8.90	16.0	24.00	0.00	100.00	6.01	0.00	6.01	1.00	0.00
2-3	8.93	11.46	24.9	18.00	0.00	100.00	8.93	0.00	8.93	1.00	0.00
3-4	11.83	14.05	36.7	12.00	0.00	100.00	11.83	0.00	11.83	1.00	0.00
4-5	14.62	16.57	51.3	6.00	0.00	100.00	14.62	0.00	14.62	1.00	0.00
5-6	17.27	18.99	68.6	0.00	0.00	100.00	17.27	0.00	17.27	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		
Initial	(Number of times)			(Number of times)	%	%	%	%	%	%	%			
1-2	1.31	1.31		3.00	3.00	3.61	7.59%	3.54%	2.38%	924.97	15.29%	3.47	1.05	
2-3	1.63	1.47		0.72	0.72	2.28	8.23%	4.68%	3.03%	1079.00	15.29%	3.64	1.17	
3-4	2.02	1.64	2.01	0.33	0.33	1.53	8.66%	5.50%	3.51%	1233.14	15.29%	3.64	1.31	
4-5	2.47	1.82		0.12	0.12	1.09	8.95%	6.08%	3.86%	1387.28	15.29%	3.55	1.47	
5-6	3.01	2.01		0.00	0.00	0.81	9.14%	6.49%	4.10%	1541.42	15.29%	3.41	1.81	



# Project at a Glance

## BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	54.91%
Total BEP (% of Installed Capacity)	57.58%
IRR, PAYBACK and FACR	
Internal Rate of Return .. ( In %age )	27.42%
Payback Period of the Project is ( In Years )	2 Years 3 Months
Fixed Assets Coverage Ratio ( No. of times )	17.626

# Major Queries/Questions Answered in the Report?

1. **What HT (High Tensile Wire) Manufacturing industry ?**
2. **How has the HT (High Tensile Wire) Manufacturing industry performed so far and how will it perform in the coming years ?**
3. **What is the Project Feasibility of HT (High Tensile Wire) Manufacturing Plant ?**
4. **What are the requirements of Working Capital for setting up HT (High Tensile Wire) Manufacturing plant ?**

- 5. What is the structure of the HT (High Tensile Wire) Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up HT (High Tensile Wire) Manufacturing Business?**
- 7. What are the operating costs for setting up HT (High Tensile Wire) Manufacturing plant ?**
- 8. What are the machinery and equipment requirements for setting up HT (High Tensile Wire) Manufacturing plant ?**

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up HT (High Tensile Wire) Manufacturing plant ?**
- 10. What are the requirements of raw material for setting up HT (High Tensile Wire) Manufacturing plant ?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up HT (High Tensile Wire) Manufacturing Business?**
- 12. What is the Manufacturing Process of HT (High Tensile Wire)?**

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- 14. What will be the income and expenditures for HT (High Tensile Wire) Manufacturing Business?**
- 15. What are the Projected Balance Sheets of HT (High Tensile Wire) Manufacturing plant ?**
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**22. What are the Project financials of HT (High Tensile Wire) 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 HT (High Tensile Wire).” provides an insight into HT (High Tensile Wire) market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of HT (High Tensile Wire) project. The report assesses the market sizing and growth of the Indian HT (High Tensile Wire) 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 NPCCS, 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 HT (High Tensile Wire) sector in India along with its business prospects. Through this report we have identified HT (High Tensile Wire) project as a lucrative investment avenue.**

# Tags

#Manufacturing\_of\_High\_Tensile\_Steel\_Wire, #High\_Tensile\_Steel\_Wire, Process for Manufacture of High Tensile Steel Wire, #High\_Tensile\_Steel\_Wire\_Manufacture, Steel Wire, Production of High Tensile Wire, #High\_Tensile\_Pre-Stressed\_Concrete\_(PC)\_Wires, #High\_Tensile\_Wire, #HT\_Wire\_Production, High Tensile Wire / PC Wire Manufacture, #PC\_Wire\_(HT\_Wire), High Tensile Wire Production, Wire Making Plant, Steel Wire Manufacturing Industry, Steel Wire Manufacturing Business, Profitable Business Ideas in Wire Manufacturing Industry, Wire Manufacture, #Project\_Report\_on\_HT\_Wire manufacturing Industry, Detailed Project Report on HT Wire manufacturing Industry, Project Report on High Tensile Wire Production, Pre-Investment Feasibility Study on High Tensile Wire Production, Techno-Economic feasibility study on High Tensile Wire Production, Feasibility report on High Tensile Wire Production, Free Project Profile on High Tensile Wire Production, Project profile on HT Wire Production, Download free project profile on High Tensile Wire Production, #Prestressed\_Concrete\_Steel\_Wire, PC Steel Wire, High Tensile Steel Strand Wire for Prestressed Concrete, #Steel\_Wire\_for\_Prestressed\_Concrete, Wire Making Business

**Niir Project Consultancy Services (NPCS)  
can provide Detailed Project Report on  
HT (High Tensile Wire) Manufacturing  
Industry.**

**Production of High Tensile Steel Wire  
for Prestressed Concrete Poles and  
Railway Sleepers**

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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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**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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# 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

## NIIR PROJECT CONSULTANCY SERVICES

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Take a look at NIIR PROJECT CONSULTANCY SERVICES on #StreetView

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You**

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