



**TMT Steel Bar (Saria/Rod)**

**Manufacturing Industry.**

**Production of TMT Rebars  
(Reinforced Bars), TMT Rods.**

**TMT Steel**

[NPCS/4156/22827]

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# Introduction

**TMT bars or Thermo-Mechanically Treated bars are high-strength reinforcement bars having a tough outer core and a soft inner core. Thermo-Mechanically Treated bars or TMT bars are widely used for different construction projects. Made from high strength steel, TMT bars possess several qualities that make them the most preferred material for various construction projects.**

**With a unique metallurgical process that combines work hardening along with heat-treatment to create robust and high strength bars from low-carbon steel, TMT bars have a great demand.**



# Advantages of using TMT Bars

- **Great Ductility and Bend Ability:** One of the distinct advantages of using TMT bars is that they have great ductility and bend ability properties. Because of this, one can create pre-welded meshes that are used to eliminate the need of manual binding. This brings down construction and fabrication time.
- **Malleability:** TMT bars are most preferred because of their flexible nature
- **Resistant to Earthquakes:** TMT bars are resistant to earthquakes thanks to their soft pearlite core. Because of this, they can bear seismic and dynamic loading. TMT bars boast of high fatigue resistance to seismic loads because of high ductility and therefore they are widely used in earthquake prone areas.

- **Great Bonding Strength:** Another major advantage of TMT bars is their superior bonding strength. There are external ribs running across the entire length of these bars and this fosters great bonding strength between the concrete and the bar. **Fire resistant:** Fire safety of a structure is one of the primary concerns for engineers and residents. TMT bars boast of high thermal stability and can resist temperatures ranging from 400 to 600 degrees Celsius. Thus, they are perfect for resisting fire and provide safety.
- **Fine Welding Features:** TMT rebars (having low carbon content) can be used for butt and other weld joints without reduction in strength at the weld joints.



- **Resistant to Corrosion:** The TMT process gives these bars anti-corrosive properties. These bars undergo controlled water-cooling process that resists formation of coarse carbides. Coarse carbides are the main reasons for the corrosive nature of a common bar. Absence of surface stresses is another reason for these bars to be corrosion resistant. Thus, using them increases the longevity of a structure.
- **Cost-Effective and Malleable:** High tensile strength and better elongation make these bars highly cost-effective than normal bars. They are easy to transport and malleable.



# Application of TMT bars

*TMT bars find their application in many avenues. They are used for constructing:*

- **Bridges**
- **Dams**
- **High-rise apartments**
- **Industrial structures**
- **Flyovers**



# **Market Outlook**

**The demand for low-cost reinforcement bars of higher yield strength has gone up exponentially over the last few decades. Increasing project scales with, ranging from spectacular high-rises, to mammoth dams and bridges spanning for miles together, the fascination for building 'mega' structures meant that plenty of research went into finding low-cost reinforcement bars of higher yield strength.**



**The sale of construction materials including TMT bars are estimated to grow at a Compounded Annual Growth Rate (CAGR) of 6.18% in terms of volume. Currently, the size of the Indian construction industry is USD 2.8 billion. Recently the government has announced an early completion of 10 million rural houses by the end of 2018, ahead of 2018 deadline and 11.8 million urban houses by 2020 instead of 2022 deadline under the “Housing for All” initiative. This will require huge amount of TMT bars and we expect multifold growth in demand in the coming years.**

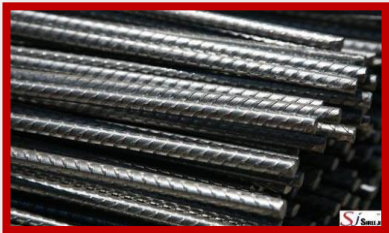




# Demand Forecast of Steel Rebars

FINANCIAL YEAR	QUANTITY (MT)
2011-12	21.77
2012-13	22.04
2013-14	23.91
2014-15	25.90
2015-16	28.05
2016-17	30.39
2017-18	32.91
2018-19	35.65
2019-20	38.61
2020-21	41.82

**Increase in demand for low cost reinforcement bars in construction projects such as dams and bridges drives the global thermo-mechanically treated (TMT) steel bars market. Rise in government support for the production of steel and coal propels the thermo-mechanically treated (TMT) steel bars market. Thermo-mechanically treated (TMT) steel bars are preferred over torsional bars, as these have high strength and ductility. This is a key factor boosting the demand for global thermo-mechanically treated (TMT) steel bars market. However, technical constraints such as the properties such as ductility and strength associated with high-grade thermo-mechanically treated (TMT) steel bars are anticipated to hamper the global thermo-mechanically treated (TMT) steel bars market.**



**Based on dimension, the global thermo-mechanically treated (TMT) steel bars market can be segmented into 12mm, 68mm, 812mm, and others. The selection of dimensions of the steel bar depends on its use. Thermo-mechanically treated (TMT) steel bars are used in construction of the foundation, which bears the load of the building, beams, and slabs. Thermo-mechanically treated (TMT) steel bars help withstand natural calamities such as windstorms and earthquakes.**

**Key players operating in the global thermo-mechanically treated (TMT) steel bars market include Arcelor Mittal Zenica, Balkan Steel Engineering Ltd., Essar Steel, HBIS Group, HUS Ltd., Metalopromet d. o. o. Kula, MMD, SIDERAL S.H.P.K., SIJ Group, and TATA Steel.**



# Iron & Steel Industry in India

**India was the world's third-largest steel producer@ and third-largest steel consumer in 2017%. The growth in the Indian steel sector has been driven by domestic availability of raw materials such as iron ore and cost-effective labour. Consequently, the steel sector has been a major contributor to India's manufacturing output.**

**India's finished steel consumption grew at a CAGR of 5.69 per cent during FY08-FY18 to reach 90.68 MT. India's crude steel and finished steel production increased to 102.34 MT and 104.98 MT in 2017-18, respectively.**



**In 2017-18, the country's finished steel exports increased 17 per cent year-on-year to 9.62 million tonnes (MT), as compared to 8.24 MT in 2016-17. Exports and imports of finished steel stood at 4.33 MT and 5.41 MT, during Apr-Nov 2018 (P).**

**Iron and steel is basis for laying the vibrant Indian industry. Production of steel has come to exist as an index of a country's potential, industrial and economic growth.**

**Being a core sector, steel industry tracks the overall economic growth in the long term. Also, steel demand, being derived from other sectors like automobiles, consumer durables and infrastructure, its fortune is dependent on the growth of these user industries. The Indian steel sector enjoys advantages of domestic availability of raw materials and cheap labour. Iron ore is also available in abundant quantities. This provides major cost advantage to the domestic steel industry.**

## **Global Iron & Steel Market**

**Global iron & steel market is expected to witness rapid growth owing to strong demand from construction and transportation sector over the forecast period. Rapid industrialization and urbanization, particularly in the emerging regions such as Asia Pacific and Central & South America are expected to drive the overall iron & steel market.**

**The construction industry, by far, has been the leading consumer of steel and iron, using up more of the materials than even wood and cement. However, steel and iron producers are now compelled to compete with new construction materials such as ceramics and polymers.**



**This has enabled the production of lightweight steel and iron products that are also high on tensile strength. The engineering industry in general – and the heavy engineering industry in particular – has relied on ferrous materials for several years now and continues to do despite the advent of an assortment of newer material varieties.**

**Major iron and steel producing countries are China, India, Brazil, Japan, Australia, South Korea, Germany, and Ukraine. Asia Pacific is estimated to witness fastest growth rate and is thus poised to dominate the global market. Economies such China, India, and other South-East Asian economies are presumed to lead the regional market. Developed regions such as North America and Europe are projected to experience a positive market outlook owing to considerable economic revival over the forecast period.**

**Major industry participants in the iron & steel market include Bridon International Ltd., ArcelorMittal S.A., Kobe Steel Ltd., Insteel Industries Inc., N.V. Bekaert SA, Steel Authority of India Ltd. POSCO, Tata Steel Ltd., Rio Tinto, BHP, Vale, Tree Island Industries Ltd., and Leggett & Platt Incorporated.**





# Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existin g	Propose d	Total	Particulars	Existin g	Propose d	Total
Land & Site							
Development Exp.	0.00	150.00	150.00	Capital	0.00	418.74	418.74
Buildings	0.00	304.00	304.00	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	729.97	729.97	Capital	0.00	0.00	0.00
Motor Vehicles	0.00	15.00	15.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation							
Equipments	0.00	161.50	161.50	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow				Internal Cash			
Fees & Exp.	0.00	50.00	50.00	Accruals	0.00	0.00	0.00
Franchise & Other				Long/Medium Term			1256.2
Deposits	0.00	0.00	0.00	Borrowings	0.00	1256.22	2
Preliminary& Pre-							
operative Exp	0.00	10.00	10.00	Debentures / Bonds	0.00	0.00	0.00
Provision for				Unsecured			
Contingencies	0.00	65.00	65.00	Loans/Deposits	0.00	0.00	0.00
Margin Money -							
Working Capital	0.00	189.49	189.49				
TOTAL	0.00	1674.95	1674.95	TOTAL	0.00	1674.95	5

# 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				
	Rs	Rs	Rs	Rs	Rs	%	Rs	%	Rs	No. of Times	%
1-2	5.14	9.31	15.14	24.00	0.00	100.00	5.14	0.00	5.14	1.00	0.00
2-3	8.03	11.63	23.17	18.00	0.00	100.00	8.03	0.00	8.03	1.00	0.00
3-4	10.97	14.09	34.14	12.00	0.00	100.00	10.97	0.00	10.97	1.00	0.00
4-5	13.89	16.60	48.03	6.00	0.00	100.00	13.89	0.00	13.89	1.00	0.00
5-6	16.75	19.11	64.78	0.00	0.00	100.00	16.75	0.00	16.75	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	1.35	1.35		3.00	3.00						1604.96	19.09%	3.09	1.06
2-3	1.65	1.50		0.78	0.78	2.11	7.66%	5.15%	3.43%		1840.94	18.77%	3.29	1.20
3-4	2.03	1.66	2.03	0.35	0.35	1.39	8.43%	6.35%	4.10%		2103.18	18.76%	3.32	1.38
4-5	2.48	1.84		0.12	0.12	0.95	8.99%	7.24%	4.61%		2365.42	18.76%	3.24	1.57
5-6	3.03	2.03		0.00	0.00	0.68	9.39%	7.91%	5.01%		2627.66	18.75%	3.09	2.03

# Project at a Glance

## BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	53.85%
Total BEP (% of Installed Capacity)	57.61%
IRR, PAYBACK and FACR	
Internal Rate of Return .. ( In %age )	27.79%
Payback Period of the Project is ( In Years )	2 Years 3 Months
Fixed Assets Coverage Ratio ( No. of times )	16.699

# Major Queries/Questions Answered in the Report?

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

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

**9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up TMT Bar Manufacturing plant ?**

**10. What are the requirements of raw material for setting up TMT Bar Manufacturing plant ?**

**11. Who are the Suppliers and Manufacturers of Raw materials for setting up TMT Bar Manufacturing Business?**

**12. What is the Manufacturing Process of TMT Bar?**



- 13. What is the total size of land required for setting up TMT Bar Manufacturing plant ?**
- 14. What will be the income and expenditures for TMT Bar Manufacturing Business?**
- 15. What are the Projected Balance Sheets of TMT Bar Manufacturing plant ?**
- 16. What are the requirement of utilities and overheads for setting up TMT Bar Manufacturing plant?**
- 17. What is the Built up Area Requirement and cost for setting up TMT Bar Manufacturing Business?**



**18. What are the Personnel (Manpower) Requirements for setting up TMT Bar 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 TMT Bar.” provides an insight into TMT Bar market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of TMT Bar project. The report assesses the market sizing and growth of the Indian TMT Bar 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 TMT Bar sector in India along with its business prospects. Through this report we have identified TMT Bar project as a lucrative investment avenue.**



# Tags

#TMT\_Bars\_Manufacturing\_Process, TMT Bar Manufacturing, TMT Bar Manufacturing Business in India, #What\_is\_the\_Manufacturing\_Process\_of\_TMT\_Steel\_bars? #TMT\_Bars\_Manufacturing\_Plant, TMT Bars Manufacturing Process Pdf, TMT Bar Manufacturing Process PPT, TMT Bars Manufacturing Plant Cost, TMT Bar Manufacturing Process Flow Chart, TMT Bar Production in India, TMT Bars Manufacture, TMT Bars, #Thermo\_Mechanically\_Treated\_(TMT)\_Bars, TMT Steel Rods, Steel Bars, Steel TMT, TMT Saria Manufacture, TMT Steel Bar Manufacture, Thermo Mechanically Treated Bars, TMT Saria, Steel Bar Manufacture, #TMT\_Saria\_&\_Steel\_Bar\_Manufacture, Production of TMT Rebars, TMT Rebar Production, Steel Bar Production, TMT Steel Bars Manufacturing Industry, TMT Bars Manufacture in India, #How\_to\_Start\_TMT\_Bar\_Manufacturing\_Business, Setting up TMT Bars Manufacturing Unit, Project Report for Setting Up TMT Bars Manufacturing Unit, Production Unit of TMT Bars, Manufacturing of TMT Bars, #Project\_Report\_on\_TMT\_Bars\_Pdf, TMT Bars Manufacturing Plant Cost In India, TMT Bars (Sariya) Manufacturing Plant, Building Material, Project Report on TMT Bar Manufacturing Industry, Detailed Project Report on TMT Bar Production, #Project\_Report\_on\_TMT\_Bar\_Production, Pre-Investment Feasibility Study on TMT Bars (Sariya) Manufacturing, Techno-Economic feasibility study on TMT Steel Bars Manufacturing Industry, Feasibility report on TMT Steel Bars Manufacturing Industry, #Free\_Project\_Profile\_on\_TMT\_Bar\_Production, Project profile on TMT Steel Bars Manufacturing Industry, Download free project profile on TMT Bars (Sariya) Manufacturing, TMT Steel Bars Manufacturing Process, TMT Bar Production, #TMT\_Bar\_Industry, TMT Bars Rolling Mill

**Niir Project Consultancy Services (NPCS)  
can provide Detailed Project Report on  
TMT Steel Bar (Saria/Rod)  
Manufacturing Industry.**

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Bars), TMT Rods.**

**TMT Steel**

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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](#)**



# Contact us

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# **Niir PROJECT CONSULTANCY SERVICES**

**An ISO 9001:2015 Company**



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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**



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