



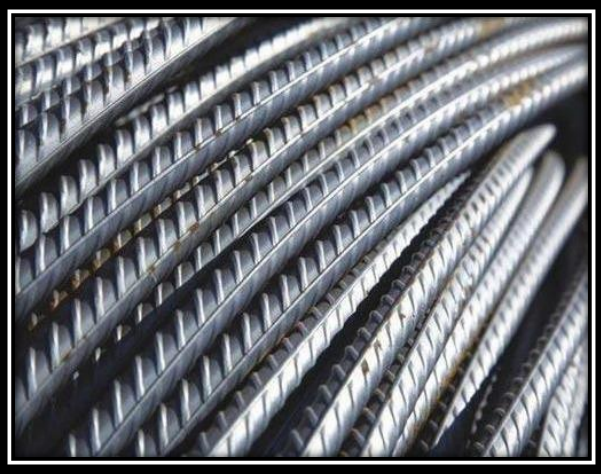
**TMT (Thermo Mechanically Treated)
Steel Bars, Angles and Pipes
Manufacturing Business.**

Production of Steel Products.

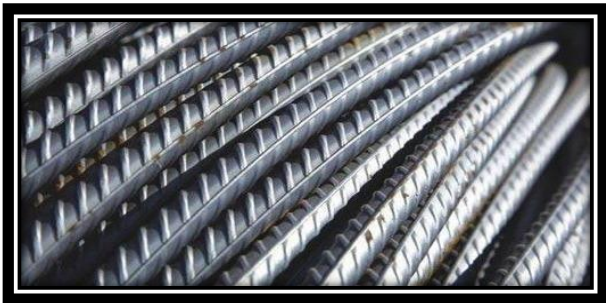
**Profitable Business Ideas in Steel
Industry**

Introduction

Thermo-mechanically treated (TMT) steel bars are manufactured using the metallurgical process which combines mechanical deformation such as compression, forging, and rolling with thermal processes such as heat treatment and quenching. In the thermal mechanical treatment process, a freshly rolled steel rod, which is at a high temperature, is rapidly cooled and its periphery, creating a hard material layer called martensite.



TMT bars are one of the most widely used materials used in the construction industry. 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. Given below are the advantages and applications of these bars. TMT bars are widely used in the constructing buildings and other concrete structures. These bars are used to reinforce the concrete. Concrete has good compressive strength but poor tensile strength. This is why TMT bars are required for additional reinforcement. TMT bars forms a strong bond with the concrete. Also, it has thermal capability which makes the TMT bars resistant to fire accidents.



Application of TMT Bars

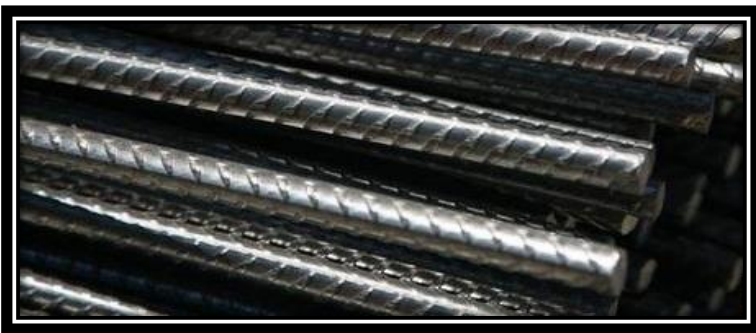
TMT bars find their application in many avenues. They are used for constructing:

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



Advantages of using TMT Bars in construction:

- TMT Bars are environment friendly as they can be recycled and reused without any loss of quality.
- TMT Bars are incredibly flexible, TMT bars can be created into required steel frames.
- TMT Bars can withstand fires and earthquakes.
- TMT Bars are easy to transport due to their lightweight built.
- TMT Bars can increase the pace of the construction process
- TMT Bars, with the superior malleability, ductility, strength, and their better weld ability.



Steel Angles are the most basic type of roll-formed steel. They are formed by bending a single angle in a piece of steel. Angle Steel is 'L' shaped; the most common type of Steel Angles are at a 90 degree angle. The legs of the "L" can be equal or unequal in length. Steel angles are used for various purposes in a number of industries. Framing is one of the most common uses for steel angles, but steel angles are also used for brackets, trim, reinforcements, and many other uses. The larger the steel angle, the more weight and stress it can bear. These brass angels are used for manufacturing architectural and decorative items.



Steel angle is widely used in construction and engineering sectors where greater strength and superior corrosion resistance is required.

Features:

- **Broadloom finish**
- **High tensile strength**
- **Simple installation**
- **Dimensional accuracy**
- **Reliability**



Application Areas:

- **Architectural Applications**
- **Construction Industries**
- **Multi-storied building**
- **Fastening industry**
- **Overhead cranes.**
- **Fabrication**
- **Bridges**



Steel pipes are long, hollow tubes that are used for a variety of purposes. They are produced by two distinct methods which result in either a welded or seamless pipe. In both methods, raw steel is first cast into a more workable starting form. It is then made into a pipe by stretching the steel out into a seamless tube or forcing the edges together and sealing them with a weld.

Uses of Steel Pipe

Steel pipes are extremely versatile. That's why they're commonly used in many industries, from gas to sewage. They also come in a variety of types and sizes, and they can easily be customized to fit the needs of a particular project, adding even more to its versatility. Truth be told, it's near impossible to find an industry that does not use steel pipe in some capacity.

- **Steel Water Pipes**

Steel has been used as a most durable product which will go with the time hand by hand. Steel Water pipes used everywhere in housing societies, offices etc. Steel Water pipes, sometimes referred to as domestic pipes and are most commonly used in building and construction.

- **Medical**

Steel pipes are so popular in the medical field that they have used them for everything, including supporting fractured bones, medical machinery, surgical tools and dental procedures and even in pharmaceutical. Steel's varied application is a testament to its durability, safety, and versatility.

- **Construction**

This is one of the most obvious uses of steel pipes. They are the go-to for many construction companies because they're malleable and sturdy, at the same time. Steel pipes are used as construction piling, to support the weight of heavy buildings when the soil is too weak. It's also used on the building itself and even its architectural design.

Steel pipes are also used to construct ships, the ship yard where they're kept, oil refineries and even space stations. Whether the construction is on land, over the water, or in space, steel pipes are a quality choice.

- **Industrial Steel Pipes & Tubes**

Steel pipes are also used in industries like in construction and energy. Industrial steel pipes can be used at any height, it is easy to maintain and also reliable.

Steel Pipe Applications

- **Textile Machinery**
- **Chemicals**
- **Fertilizers**
- **Dairy and Food Processing**
- **Power Plants**
- **Pesticides**
- **Construction**
- **Modern Architecture**
- **Pharmaceuticals**
- **Sugar**
- **Oil and Gas Processing**
- **Water treatment facilities**
- **Desalination**
- **Synthetic Fibers**
- **Pulp and Paper**
- **Breweries**
- **Ship Building**
- **Refinery & Petrochemicals**
- **Energy industries**

Market Outlook

The steel industry is one of the most important aspects of the economy for a number of developed and developing countries. Burgeoning economies such as India have a high consumption of steel as it the backbone of infrastructure. Therefore, the demand for steel has never been higher.

The growth in the TMT bars market segment has come as a shot in the arm of the iron and steel industry. The iron and steel industry has been witnessing sustained growth in the recent past.



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.

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.

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.



Global Steel Pipes market is expected to grow at a compound annual growth rate of 3.6% during the forecast period 2017-2024. Further, the global market is anticipated to reach 79.9 Million metric tons by the end of forecast period. Growing construction activities across the world and development of oil & gas industries are some major factors which are projected to foster the growth of global market of steel pipes.

The global steel pipe market is expected to grow during the upcoming years owing to the features of steel such as reliability and durability.

The wide range of usability of the steel pipe has increased demand of steel pipe in the market. The growing demand of replacing ageing pipes with the steel pipes boost the global demand of steel pipes. The increased demand of steel pipes is another factor propelling growth of the global steel pipe market. Moreover, steel pipes are ideal to carrying flammable gas owing to their non-reactive property.

Global steel pipe market can be segmented into the five key regions, namely, North America, Latin America, Europe, Asia Pacific, and the Middle East and Africa. Among them, Asia Pacific is expected to hold the largest market share in the global steel pipes market. This is due to increasing constructional activities and developing oil and gas industries in the region. These are some of important factors which may allow Asia Pacific to continue its dominance in the upcoming years.

Some of the dominant players in the global steel pipe market are ArcelorMittal, Nippon Steel & Sumitomo Metal Corporation, Hebei Iron & Steel Group, Baosteel, and Wuhan Iron & Steel Group. These players are increasing their product portfolio so as to stay ahead of each other and increase their shares in the global steel pipe market.

Machinery Photographs



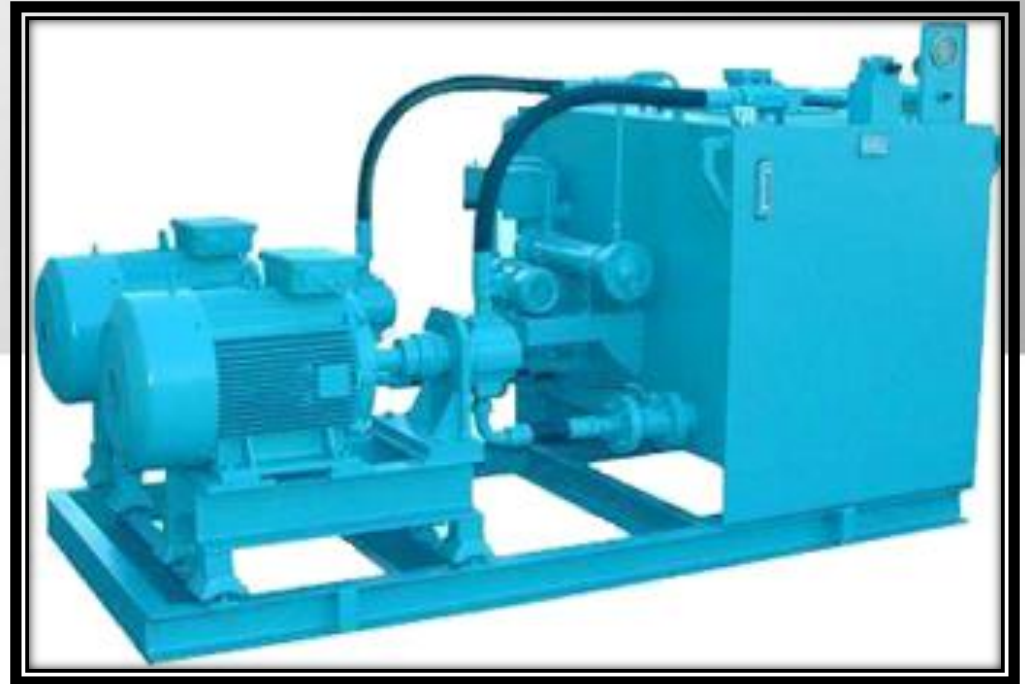
Modular Caster



Capacitor Rack



DM Water Circulation System



Hydraulic System

Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existin g	Propose d	Total	Particulars	Existin g	Propose d	Total
Land & Site				Capital	0.00	407.31	407.31
Development Exp.	0.00	250.00	250.00	Share Premium	0.00	0.00	0.00
Buildings	0.00	567.00	567.00	Other Type Share			
Plant & Machineries	0.00	400.70	400.70	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	77.50	77.50	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			1221.9
Deposits	0.00	0.00	0.00	Borrowings	0.00	1221.93	3
Preliminary& Pre- operative Exp	0.00	10.00	10.00	Debentures / Bonds	0.00	0.00	0.00
Provision for				Unsecured			
Contingencies	0.00	36.57	36.57	Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	222.47	222.47				
			1629.2				1629.2
TOTAL	0.00	1629.24	4	TOTAL	0.00	1629.24	4

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	
						%		%			%
1-2	6.33	9.71	16.33	24.00	0.00	100.00	6.33	0.00	6.33	1.00	0.00
2-3	9.17	12.13	25.50	18.00	0.00	100.00	9.17	0.00	9.17	1.00	0.00
3-4	12.01	14.61	37.51	12.00	0.00	100.00	12.01	0.00	12.01	1.00	0.00
4-5	14.77	17.07	52.28	6.00	0.00	100.00	14.77	0.00	14.77	1.00	0.00
5-6	17.45	19.47	69.73	0.00	0.00	100.00	17.45	0.00	17.45	1.00	0.00

Project at a Glance

Year	D. S. C. R.			Debt / - Deposits Debt	Equity as- Equity	Total Return Net Worth	n 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	1.40	1.40		3.00	3.00	3.39		7.57%	4.27%	2.87%	1516.15	16.87%	3.13	1.08
2-3	1.71	1.55		0.71	0.71	2.12		8.30%	5.49%	3.56%	1639.77	15.64%	3.27	1.22
3-4	2.09	1.71	2.09	0.32	0.32	1.42		8.79%	6.39%	4.08%	1870.95	15.62%	3.27	1.38
4-5	2.54	1.89		0.11	0.11	1.00		9.13%	7.03%	4.46%	2102.13	15.60%	3.18	1.55
5-6	3.09	2.09		0.00	0.00	0.74		9.35%	7.50%	4.74%	2333.31	15.58%	3.05	1.94

Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	47.41%
Total BEP (% of Installed Capacity)	50.94%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	29.39%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	17.003

Major Queries/Questions Answered in the Report?

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

- 5. What is the structure of the TMT Bars, Angles & Pipes Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up TMT Bars, Angles & Pipes Manufacturing Business?**
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- 8. What are the machinery and equipment requirements for setting up TMT Bars, Angles & Pipes Manufacturing plant ?**

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

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- **Annexure 35 :: Projected Pay-Back Period and IRR**

Tags

TMT Bars, Angles & Pipes, #TMT_Bars_Manufacturing_Process, TMT Bar Manufacturing, Steel Angles, Manufacture of Structural Steel Angles, #Manufacturing_of_Steel_Angles, Manufacturing Process of Steel Angles, Steel Angle Manufacture, Process of Production of Angle, #TMT_Bar_Manufacturing_Business_in_India, TMT Saria Manufacture, TMT Steel Bar Manufacture, Thermo Mechanically Treated Bars, TMT Saria, Steel Bar Manufacture, How to Start Steel Pipe Manufacturing Business in India, #Steel_Pipe_Manufacturing, Manufacturing of Steel Pipe, Steel Pipe Making Process, Steel Pipe Industry, Steel Pipe Manufacturing Industry, 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, #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, Steel Angles Production,

Steel Angle Bar Manufacture, Steel Angle Manufacture in India, #Steel_Business_Ideas, Steel Pipe Making Business, Steel Pipes Manufacturing Plant, Steel Pipe Manufacturing Project Report, #Steel_Pipe_Making_Project, How Steel Pipe is Made, Steel Pipe Manufacturing Process, #Detailed_Project_Report_on_Steel_Angles_Production, Project Report on Steel Pipe Manufacturing Industry, Pre-Investment Feasibility Study on Steel Angle Manufacture, Techno-Economic feasibility study on Steel Pipe Manufacturing Industry, #Feasibility_report_on_Steel_Angle_Manufacture, Free Project Profile on Steel Pipe Manufacturing Business, Project profile on Steel Angles Production, Download free project profile on Steel Pipe Manufacturing Industry, Steel Industry in India, Manufacturing of Steel Products, Steel Manufacturing Process, Steel Manufacturing Industry, Steel Production in India, Steel Manufacturing Process PPT, Steel Manufacturing Process Pdf, Steel Products, Steel Production, Business Ideas in Production of Steel Products, Steel Product Making Business Ideas

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