

# 100% Certified TMT

That exceeds BIS standards



**JSW ONE TMT**

One nation, One TMT

## A smart choice, a big difference

Choosing a well-engineered TMT is important for a strong, lasting dream home. Most cheap and easily available TMT bars fail to meet the quality requirements specified by the Bureau of Indian Standards. Their chemical compositions and physical properties are not safe for use, and the application of such rebars compromises the construction quality of your home. Also, manufacturers often make inaccurate claims about the quality and performance of their products. The reality is far from the promises they make or the grades they print on their rebars. So don't risk the safety of your dear ones and incur high maintenance costs; invest in top-quality material that fits your budget.

### ■ JSW Group

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JSW Group, a USD 24 billion conglomerate, is one of India's leading business houses with a strong presence in steel, energy, infrastructure, and more. The Group drives India's economic growth through its successful execution of large-scale projects, a diverse product mix, and cutting-edge manufacturing facilities. Committed to sustainable growth, JSW Group operates globally, creating value for its stakeholders. Born from this legacy, JSW One Platforms Limited extends JSW Group's expertise into the e-commerce and digital space. Focused on delivering reliable and efficient solutions, this division reflects JSW's commitment to continuous improvement and positive industry impact, in line with the Group's #BetterEveryday philosophy.

### ■ JSW One Platforms Limited

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Launched in July 2021, JSW One Platforms Limited (JOPL) is an e-commerce venture of JSW Group created to meet the varied needs of the construction and manufacturing industries. It is the first digital omnichannel platform to build a fully integrated supply and distribution ecosystem for MSMEs.



JOPL develops and operates proprietary technology and platforms for goods and services. It runs an e-commerce platform selling goods like steel, cement, paints, and related services like third-party logistics and credit.

## Why choose us:

JSW One Platforms is designed to enhance the overall value proposition for its users by providing:

- A connected ecosystem that brings together all stakeholders across the value chain
- An improved efficiency and transparency that builds trust and ensures the timely delivery of products and services
- A personalised experience that enhances customer engagement and loyalty
- An elevated customer value proposition through a one-stop solution that integrates various aspects of the construction and manufacturing process

By combining these elements, JSW One is redefining how businesses in the construction and manufacturing sectors operate, making it easier for MSMEs, individual home builders, and retailers to achieve their goals efficiently.

## Why JSW One TMT

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TMT bars are one of the most critical components in the construction industry. However, the market is flooded with low-quality, unreliable TMT bars, making it difficult for customers to find trustworthy products. To solve this problem, we introduced JSW One TMT, setting new standards for quality and reliability. Our TMT bars are designed to support India's construction needs with better strength, flexibility, and corrosion resistance. By focusing on quality, JSW One TMT ensures that every project using our materials is strong and durable, making us a trusted choice in the industry.



# Technical specifications

Product Attribute	FE 415	FE 500	JSW One TMT Fe 550	JSW One TMT Fe 550D
YS(Min), MPa	415	500	570	580
UTS(Min), MPa	485	545	640	685
UTS/YS, Min	1.1	1.08	1.15	1.18
%E, Min	14.5%	12%	18%	20%

Product Attribute	FE 415	FE 500	JSW One TMT Fe 550	JSW One TMT Fe 550D
%C(Max)	0.30	0.30	0.20	0.18
%P(Max)	0.06	0.065	0.045	0.035
%S(Max)	0.06	0.065	0.035	0.025
%(S+P), Max	0.110	0.105	0.08	0.060
%N, Max	0.012	0.012	0.010	0.010
CE, Max	0.42	0.42	0.35	0.300





# Advantages over ordinary TMT bars

## JSW One TMT - forms



## JSW One TMT - size range



**Standard length:** rebars are delivered in standard length of 12m bundles ensuring ease of transportation in the following forms, as per customer requirements.

Advantage	Significance	Ordinary Brands	JSW One TMT
YS	Indicator of yield strength of the material. The point at which the material deforms beyond repair	415-500 MPa	>570 MPa
UTS/YS	It measures a material's ductility and toughness, indicating its ability to absorb energy before fracturing and to withstand seismic loads.	1.06	1.15 (exceeds BIS standards)
AR Value	The better the AR value and rib design, the stronger the bond with concrete.	1.10	1.4 (for 8mm)
(S+P) %	Less (S&P) % in TMT reduces impurities and brittleness, while improving ductility. This is crucial for structural safety during earthquakes and other natural disasters.	>0.12 (not qualified)	0.075-0.095 max (as per standard)

# World-class **quality assurance**



Muffle furnace



Dimension measurement



Argon stirring at ladle furnace



Weight measurement

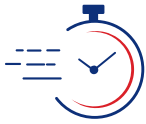


Tensile testing machine



Bend-rebend test

# Why we are **unique**



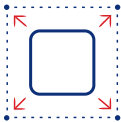
## **Quicker construction**

Fewer bars are required due to its higher strength, leading to accelerated bar placement and crane loads. This results in leaner construction, reduced concrete use and, labour costs.



## **Cost saving**

Reduced TMT rebar consumption in load-bearing structures by using narrower columns and beams which reduces concrete requirement and labour expenses.



## **Increased carpet area**

Lower TMT consumption due to higher strength results in narrower columns, thus increasing interior floor space and enabling more area for use.

Whether you're building large bridges, airports or your dream home, the new JSW One TMT is best placed to make them strong from within.



## **Certifications for high-quality system standards**



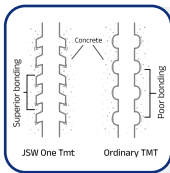
**ISO 9001 : 2015**



**ISO 14001 : 2015**



**ISO 45001 : 2018**

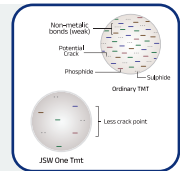


## Best-in-class **rib design**

Perfect rib design with high AR value strengthens the bond with concrete, improving structural stability.

## Superior **chemistry**

Precisely controlled raw materials reduce impurities sulphur (S) and phosphorus (P): resulting in fewer stress points and longer structural life.

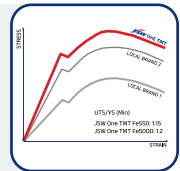


## Enhanced **structural strength**

A hard martensitic outer layer ensures uniform strength, while a flexible ferrite-pearlite core offers enhanced ductility.

## **Bendability and flexibility**

The evenly distributed ferrite-pearlite core provides superior bendability and ease of fabrication for complex designs.



## Excellent **corrosion & fire resistance**

A fine microstructure improves corrosion resistance, maintaining material properties up to 650°C under fire conditions.

## 10 Benefits, One TMT



Best-in-class  
Rib Design



Superior  
Chemistry



Enhanced  
Structural Strength



Higher Flexibility  
& Bendability



Corrosion  
Resistant



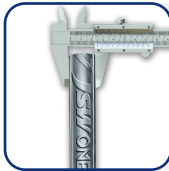
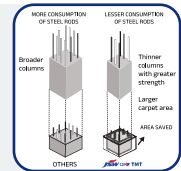


## Superior earthquake resistance

High ductility and a superior UTS/YS ratio absorb energy during seismic loads, ensuring reliability during earthquakes and other natural disasters.

## Budget friendliness

Higher strength TMT bars lead to fewer bar use, resulting in lower costs and eventually increasing carpet area with narrower columns.



## Uniform gauge dimension

Automated rolling ensures uniform gauge dimensions, providing even load distribution and preventing premature structure collapse.

## European technology

Advanced quenching and tempering techniques combine a martensitic outer layer with a ductile ferritic-pearlitic core for optimal strength.



## Superior concrete grip

High-quality concrete pairs with precise rib geometry on TMT bars to enhance bonding and overall structural integrity.

## 10 Benefits, One TMT



Heat/Quake  
Resistant



Budget  
Friendly



Uniform Gauge  
& Dimension



European  
Technology



Supreme  
Concrete Grip

# Manufacturing excellence

## Continuous casting

- Compact internal structure
- Controlled process to wean out non-metallic impurities
- High malleability for hot rolling
- Perfect sizes of the billets to produce accurate dimensions and uniform mechanical properties of TMT bars

## Thermo - mechanical treatment

- European technology
- Perfect balance between outer martensite and ferrite/pearlite core
- Result: higher flexibility and bendability, and enhanced structural strength



## Steelmaking

- High-quality raw material
- Stringent process control of steel refining to remove impurities
- Result: superior chemistry to ensure better TMT quality



## Rolling

- High-speed modern rolling mill
- Perfect quality roll with precision CNC cut for rib marking
- Result: uniform gauge and dimension, smooth surface and best-in-class rib design



## Cutting & bundling

- Accurate length of TMT
- Result: ease of planning at the site with accurate lengths of all the bars



# Our network

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## Contact us at

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The logo for JSW ONE TMT, featuring the letters 'JSW' in a bold, italicized font with a red swoosh above the 'W', followed by 'ONE' in a standard sans-serif font, and 'TMT' in a bold, italicized font.

**JSW ONE TMT**

**One nation, One TMT**