

MAKSAD TOH
**DESH KO
MAJBOOT**
BANANA HAI



A Product of Maan Steel & Power Ltd.
(Integrated Steel Plant), Jamuria

Corporate Office 58/1 Sarat Bose Road, Kolkata - 700025
Toll Free No 1800 121 2250 / 1800 212 2250
Website www.maantmt.com

MAAN STEEL & POWER LTD.

THE WORLD AROUND IS MADE FROM STEEL



www.maantmt.com

Growth Through Excellence

Since its inception our group has been able to create a benchmark of sorts in the iron & steel industry. Backed with our widespread operations, we have been able to achieve a sustained growth over the years.

Our proficient team members are assets. Their dedication, sincerity and hard work has helped our entire vertical to emerge as one of India's top industry.

Aligned with our motto of Growth Through Excellence, we at Maan Steel and Power Limited look forward to embark on an all-round developmental goal by ensuring the manufacturing and supply of high-end durable construction products at affordable prices.

The global economy went through severe struggles during the pandemic just to be able to sustain stability and be able to flourish in the future.

We, at Maan Steel and Power Limited, while being aware of the obstacles, also have faith in our country's long term potential that never ceases to grow. Despite a massive population pressure and high cost of land that keeps increasing by the day. This seems to be the current scenario in the industry through which we are working through.

As an entity with a holistic and future driven attitude, Maan Steel and Power Limited will entirely dedicate itself to playing an active role towards the progress and development our nation and for the welfare of mankind at large.



With best wishes,

Binod Agarwal
Chairman

**Aapka Maan
Humaari Shakti**



Maan Shakti TMT bar has literally revolutionized the safety and quality standards in the industry. Made from the highest quality steel, it conforms to the BIS standard and matches to the needs of a growing modern India. The advanced processed steel, when embedded with concrete, gives excellent strength and durability to any construction. The compact unique rib design, when embedded with concrete, imparts desired strength to the construction. This ensures stronger and stable structures.

MISSION

To build superior quality Steel
TMT bars that surpass customer expectations.
To provide them at competitive prices.

Maan Shakti TMT Bars gives infinite strength to the entire infrastructure, which is evident when the structure withstands high magnitude seismic shocks. TMT bar is an innovative rebar that meets all the safety and quality standards of a high-end bar. This bar is the most durable and the safest bar in the industry because it is created to maximize sustainability. The material used to make the bar is recyclable and reusable. In addition to adhering to the safety standards of strength and stability, it's also made of environment friendly materials.

VISION

To become the peoples' brand.
To become the leading name in TMT bar
manufacturing built on peoples' trust.



**YOUR
TRUST
IS OUR
STRENGTH**

Our vision to place India on the global construction map is shaped by our commitment to benefit society and care for our employees. This motto is also seen percolating in our offering higher quality products to our customers at affordable prices. Backed by cutting edge technology and modern equipment, our team of experts drive actionable insights into innovative solutions to create value for customers and instill brand confidence.

The company's advanced lab, Modern equipment, Trained technicians, And Quality Assurance Department work cohesively to monitor the processes and material to make and present the best of the Steel for seismic resistance. Our care and collaborative relationship with our dedicated team for almost two decades also helps in maintaining consistency in quality standards. **Maan Shakti TMT Bar** is an investment for your lifelong secure future.

**MAAN
SHAKTI
TMT BAR
FOR YOUR
SECURE
FUTURE**



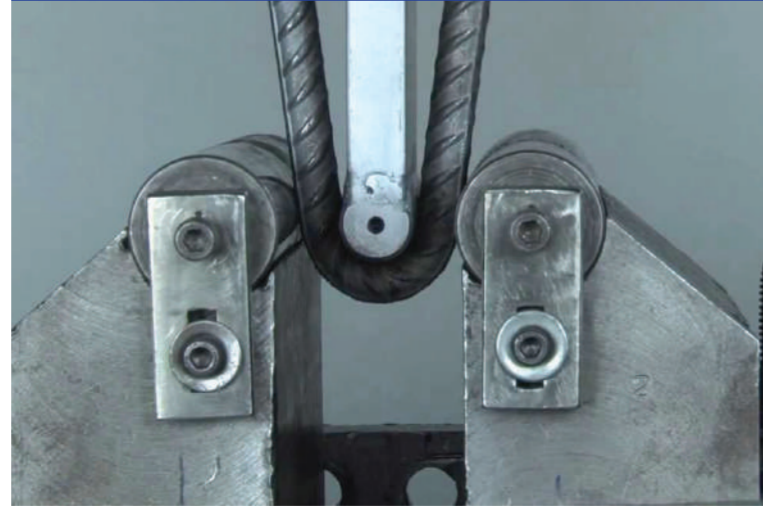
HIGH DUCTILITY & COHESIVE STRENGTH

Maan Shakti TMT bars have high tensile strength, meaning they can bear a large amount of stress before falling or fatigued. They also have high ductility, allowing them to bend to their optimum tensile strength without being brittle.



HIGH BENDABILITY & WELDABILITY

Maan Shakti TMT bars can bend without breaking. They have excellent shock absorption properties and can be easily welded with each other, thus making for easy workability.



FIRE RESISTANCE

Maan Shakti TMT bars have solid thermal stability. They can withstand temperatures that range from 400-600 degrees Celsius.



CORROSION RESISTANCE

Lower Carbon content and the right proportions of elements like Sulfur, Phosphorus, and Chromium give Maan Shakti TMT bars a superior resistance to corrosion.



EARTHQUAKE RESISTANCE

Maan Shakti TMT bars can withstand high seismic loads. Thus they are extremely suitable for regions with high seismic activities. Consistent Grades and Superior Rib Pattern Maan Shakti TMT rebars come in different grades, including Fe 415, Fe 500, Fe 550D (ductile), and Fe 600, where the number decides the yield quality of the steel product. The rib patterns on the surface of the bars are consistent and prominent across the length allowing for a superior bond with concrete.





FEATURES OF MAAN SHAKTI TMT BARS

High Bond Strength
Special Weldability
Enhanced Corrosion Resistance
Higher Temperature Resistance
High Dimensional Tolerance
Seismic Resistance
Thermax Quenching Technology



550D

Thermax Quenching Technology is a game changing German Technology that has revolutionized the Indian steel production industry. These bars meet the highest quality standards worldwide and are proven to be more heat resistant. This adds on to the strength and safety of the structure. These bars are a new generation of high strength steel.

Maan Shakti TMT Bars are specially designed to ensure excellent bondage between the bar and surrounding concrete. The strong compression and tension in reinforced concrete produces an everlasting bond and adds longevity to the structure



STRONG TMT BARS TO BUILD POWERFUL STRUCTURES

Maan Shakti TMT bars are mighty strong and are used to build structures that stand tall. The various robust mechanical and chemical features of Maan Shakti TMT make it a favourite among engineers to build:

- Residential projects
- Highrise residential buildings
- Office / industrial structures
- Dams
- Long span bridges and flyovers
- Large structures such as Malls, Schools, Airports, Hospitals, etc.
- Underground structures
- Underwater or marine structures



Dams



Highrise residential buildings



Industrial structures



Long span bridges and flyovers



Airports



Underwater or marine structures

AAPKA MAAN

WE ARE HERE AND EXPANDING



West Bengal

Assam

We are now active and growing in West Bengal and Eastern India and aim to expand throughout the country in the coming years.

HUMAARI SHAKTI

MECHANICAL PROPERTIES COMPARISON CHART

REBAR GRADE	BIS FE 550D	MAAN SHAKTI 550D
Yield Stress (N/mm ²)min	550	570
Ultimate Tensile Strength (N/mm ²) min	600	630
UTS/YS Ratio	1.08	1.10
% Elongation (min)	14.5	18
Total Elongation (min)	5	5

MANDREL SIZE FOR BENDING

REBAR GRADE	BIS FE 550D	MAAN SHAKTI 550D
Bend (Up to & incl. 20mm)	4	3
Bend (Over 20mm) 5 Φ 4 Φ	5	4
Rebend (Up to & incl. 10mm)	6	5
Rebend (Over 10mm)	7	6



CHEMICAL PROPERTIES COMPARISON CHART

REBAR GRADE	BIS FE 550D	MAAN SHAKTI 550D
% Carbon (max)	0.25	0.22
% Sulphur (max)	0.04	0.035
% Phosphorus (max)	0.04	0.035
CE (max)	0.61	0.61

- ▶ Testing the raw materials to ensure their quality
- ▶ Rigorous testing of finished goods ensures they meet the industry's quality standards.



SECTIONAL WEIGHT

Size (Dia in mm)	ISI BENCHMARK			MAAN SHAKTI STEEL QST BAR		
	Nominal Spec in Kg/Mtr.	Tolerance Limit in Kg/Mtr.	Indv. Sample %Var	Weight Tolerance in Kg/Mtr.	Weight Tolerance in Kg/Feet	Ind. Sample %var
6	0.222	0.206 - 0.237	+ ₇	0.210 - 0.220	0.064 - 0.067	-5 /-1
8	0.395	0.367 - 0.423	+ ₇	0.367 - 0.383	0.112 - 0.117	-7 /-3
10	0.617	0.574 - 0.660	+ ₇	0.574 - 0.598	0.175 - 0.182	-7 /-3
12	0.888	0.844 - 0.932	+ ₅	0.844 - 0.870	0.257 - 0.265	-5 /-2
16	1.580	1.501 - 1.659	+ ₅	1.501 - 1.548	0.457 - 0.471	-5 /-2
20	2.470	2.396 - 2.544	+ ₃	2.396 - 2.445	0.730 - 0.745	-3 /-1
25	3.850	3.735 - 3.965	+ ₃	3.735 - 3.811	1.138 - 1.161	-3 /-1
28	4.830	4.685 - 4.974	+ ₃	4.685 - 4.781	1.428 - 1.458	-3 /-1
32	6.310	6.121 - 6.499	+ ₃	6.121 - 6.246	1.866 - 1.904	-3 /-1

