

**20% LESS STORAGE SPACE**

**20% REDUCTION IN LABOUR COST**

**20% SAVINGS**

**20% REDUCTION IN TRANSPORTATION COST**

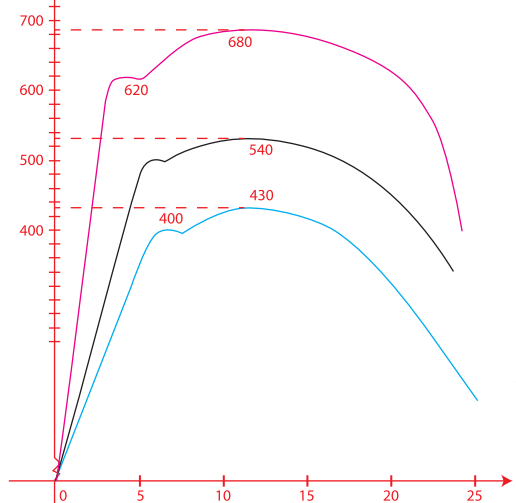
**20% LESS STEEL CONSUMPTION**

Maithan Steel offers THE STRENGTH OF 20 compared to conventional Fe500 or Fe415 grade available in the market. Usage of high strength TMT rebars lead to increased rebar spacing as fewer rebars are required, resulting in reduced TMT rebar congestion. As less rebars are required, the construction time is less too. Along with the lower consumption of steel, the pillars of the building can be made thinner thus providing extra space.

# STRONG MATLAB maithan STEEL

## COMPARATIVE PROOF STRESS GRAPH

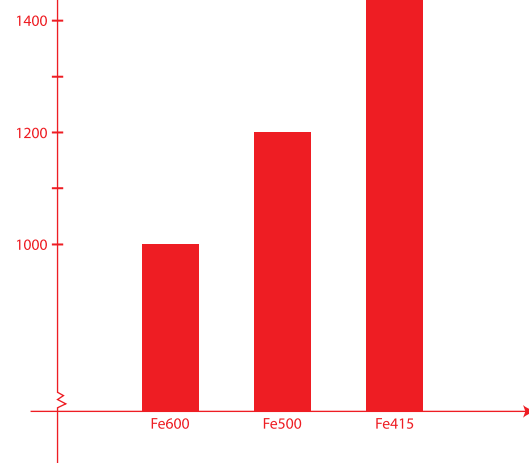
Proof stress of steel (Fy) is higher for Fe600 grade than Fe500 grade by 20%. Hence, consumption of steel decreases by 20%.



$$F_y = \frac{0.85 \times M \times D}{A_{st}}$$

F<sub>y</sub> = Proof stress of steel in use  
 M = Moment in tension  
 D = Depth of section  
 A<sub>st</sub> = Area of steel in use

Proof stress of steel (Fy) is higher for Fe600 grade than Fe500 grade by 20%. Hence, consumption of steel decreases by 20%.



### PRODUCT COMPARABLE CHART OF CHEMICAL AND PHYSICAL PROPERTIES OF MAITHAN STEEL vs OTHERS

PROPERTIES	UNIT	BIS Fe500	BIS Fe500D	BIS Fe550	MAITHAN 600
Yield Stress (YS)	N/mm <sup>2</sup>	500	500	550	600
Tensile Strength	N/mm <sup>2</sup>	545	565	585	700
Elongation Min.	%	12	16	10	16
Carbon	%	0.300	0.250	0.300	0.280
Sulphur	%	0.055	0.040	0.055	0.040
Phosphorus	%	0.055	0.040	0.050	0.040
S and P	%	0.105	0.075	0.100	0.075

SIZE RANGE	5.5mm	8mm	10mm	12mm	16mm	20mm	25mm	32mm
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Maithan Steel is available for all kinds of reinforcement applications, from small to large infrastructure. Individual houses, bridges, dams, multi-storied buildings, thermal and hydel power plants and other critical heavy constructions at earthquake prone zones.



**NIRMAAN KA MAANDAND**

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[www.maithansteel.com](http://www.maithansteel.com)



### What is Maithan Steel?

To create a magnum opus, one needs strong, solid construction that can stand the test of time. Maithan Steel, the most trusted brand in its category in Eastern India, is an accomplishment achieved through superior product standard, well-equipped R&D, and a passion for innovation. We make only Fe600 grade TMT rebars, the strongest TMT rebars available globally. At Maithan Steel and Power Limited we don't just produce steel; we believe in being the bedrock around which your dreams take shape. It is a result of consistent effort, uncompromising quality with state-of-the-art technology.

### About Us

This journey of trust and excellence that commenced half a century ago with business leaders who are adept at serving all over the country, is enabling us to set newer benchmarks and attain newer heights everyday in the infrastructure sector. Being in tune with the evolution in steel-making technology, Maithan Steel and Power Limited has an integrated state-of-the-art plant in Salanpur, West Bengal and is all set to provide the best quality product, using the best technology.



# PASSED INTERNATIONAL STRENGTH TESTS



**Extra Strength** – Maithan Steel is the strongest TMT rebar so far in use globally as it doesn't compromise on ductility and bendability.



**Solid Grip** – It has scientific and uniform ribs with greater depth and closer rib spacing to ensure better bonding and grip with concrete. The uniform ribs are achieved by using a computer-controlled CNC notch machine.



**Super Flexible** – Flexible rebars bend into customized shapes due to their inherent microstructure with a soft pearlite core. They bend around small diameter norms and re-bend without cracking.



**TC Finish** – Tungsten Carbide (TC) Rolls are used only by ultra-modern rolling mills for excellent surface finish and lower dimensional tolerance.



**Earthquake Resistance** – Due to its unique combination of strength and ductility, Maithan Steel has a higher UTS/YS ratio absorbing a large amount of energy during cyclic loading, experienced at the time of the earthquakes without any catastrophic failure.

Consistent Quality • Anti-Corrosion • Ductility • Weldability • Online Quality Control • Fire Resistance