



**Kay2**  
STEEL

**TMT BARS**

Steel for modern Engineering





“

**Your moments of  
right decision  
shape a secure destiny  
for your family**

”





***BUILDING TRUST, BUILDING INDIA***





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**KAY2 500** 



# KAY2 STEEL

KAY2 is the most reliable Brand of modern India. A brand backed with utmost consumer satisfaction and emphatic endorsements from the builders, architects, engineers and end users alike. With Pan-India presence, the KAY2 Steel is building trust in the true sense.

Providing an excellent range of TMT Rebars featuring superior quality, perfect dimensional consistency and standardized physical & chemical properties across India, KAY2 is a brand of proven credentials and dependable promises.

Raising the bar in terms of product quality, latest technology, robust supply chain and consumer friendly services, KAY2 represents passion driven commitment in TMT Rebars sector.

Honouring the brand proclamation of “complete protection, best construction”, KAY2 relentlessly strives to stay ahead of its competitive brands to ensure safer, stronger and durable buildings to the customers.







# Modern Manufacturing with **Meticulous Quality Control**

KAY2 TMT Rebar is manufactured through advance technology under entirely computer controlled systems and tested stringently through advanced laboratory processes with the aim to ensure only the very best products with best functionality.

The plant has contemporary and totally automatic PLC based machines, which maintain temperature during the rolling process between 1000 °C to 1100 °C. Then the bars pass through specially designed Quenching Box. Here the red-hot bars are subjected to sudden and intense cooling. The cooling time and rate depend on the size and speed of bar and controlled by maintaining a desired temperature, Flow rate and temperature of water. The surface gets quenched to form a hard Martensite structure while the inner layer remains comparatively hot and soft Austenite. Finally, the bar is kept on Cooling Bed, where natural air cools it. The temperature gradient, between inner hot core and outer layer, makes the core reheat the quenched surface.

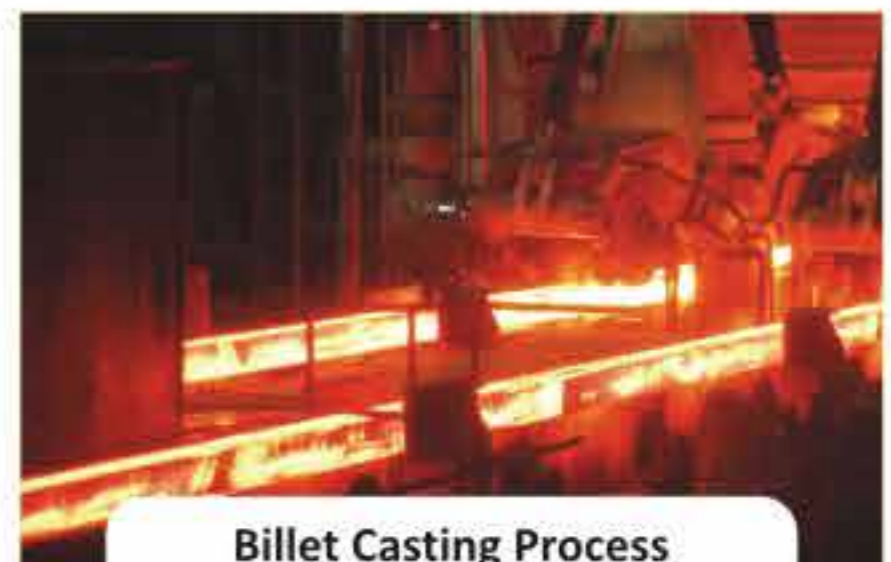
Kay2 technical team is equipped with advanced testing facilities to ensure the KAY2 quality standards at each of the stages of production.



Iron Ore



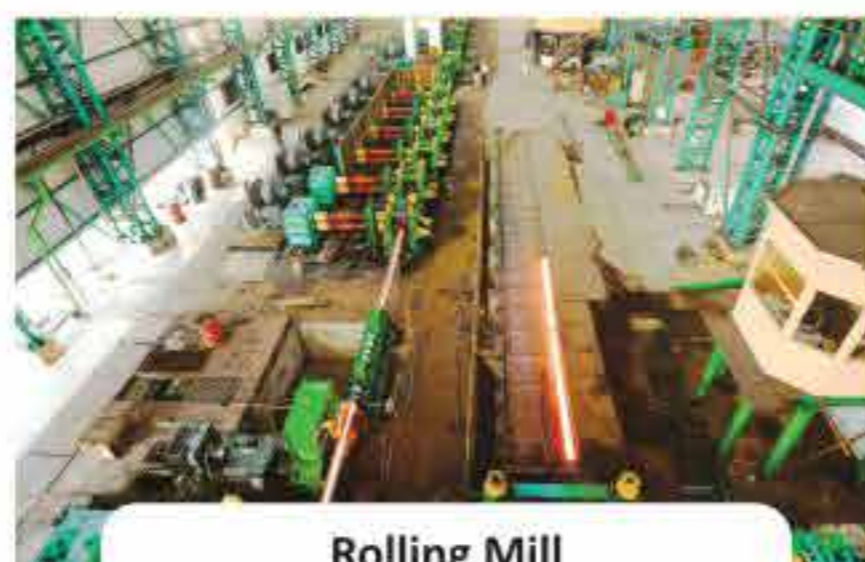
High Quality Sponge Iron



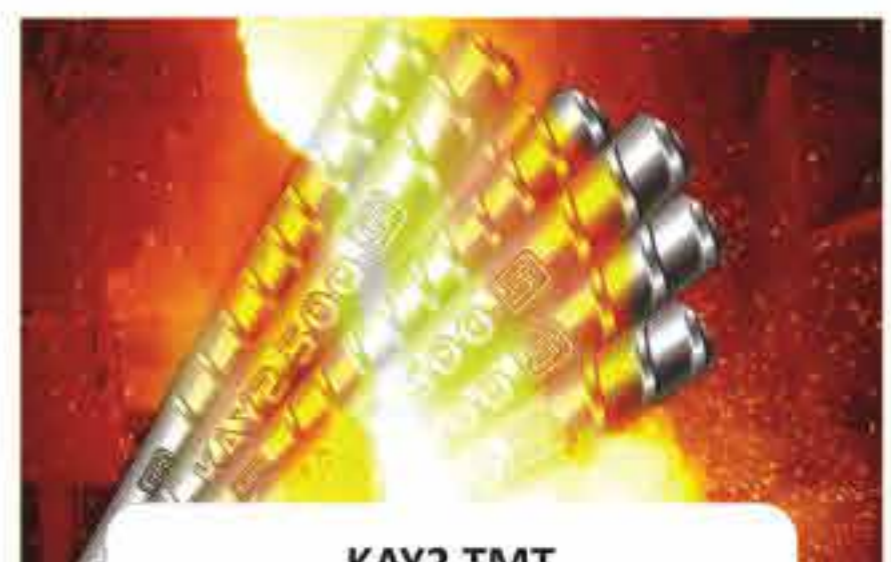
Billet Casting Process



Ready Mild Steel Billets



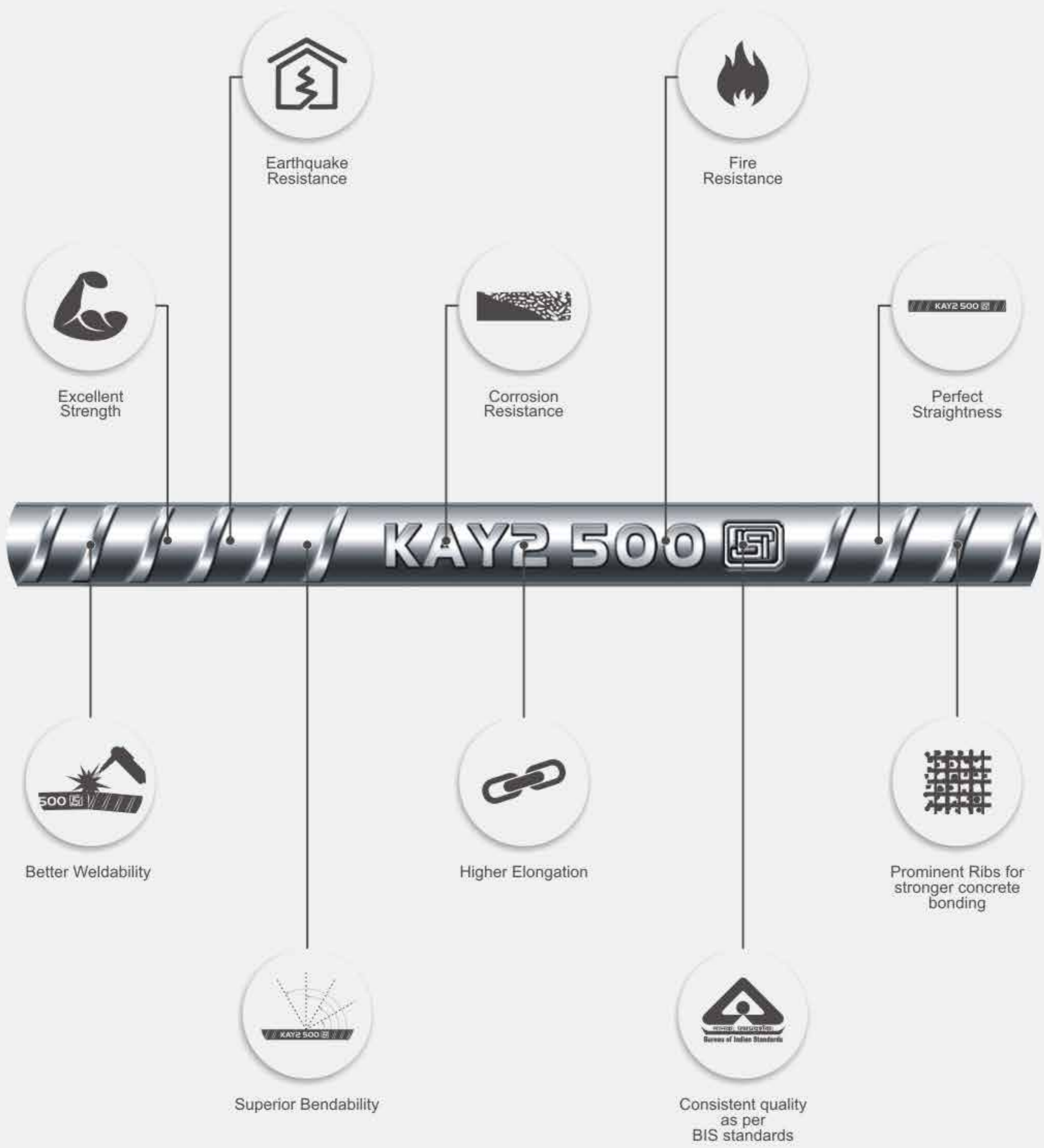
Rolling Mill



KAY2 TMT



# KAY2 TMT Rebars – the perfect **10 on 10**





# Unmatched Strength of Assured Quality

KAY2 TMT Rebar provides twosome advantages of maximum reinforcement strength with corrosion resistant durability. The assurance of KAY2 TMT is formalized through its utmost compliance to the International Quality Standards.

Through most advanced technology using superior quality raw materials, the highly accomplished workforce of KAY2 Steel manufactures the most reliable, widely used and thoroughly appreciated TMT Rebars of the age, known as KAY2 TMT Rebars. The complete range of most contemporary product variants in TMT Rebar segment is produced and offered under the brand KAY2, including; Fe- 500 and Fe- 500D bars adhering to the quality standards of BIS, while showing even better product specifications on the desired parameters.

Offering the best in its category product features, all the KAY2 TMT products exhibit better corrosion-resistance, more bond-strength with concrete and superior resistance to fire hazard than the competitive brands. Known for excellent ductility, higher fatigue strength and easy work- ability at site, KAY2 TMT Rebars has carved a coveted niche for itself in construction material market. Upbeat regarding the chemical and physical properties in comparison of the other brands, KAY2 TMT Rebars could save 14 - 19% steel, without compromising the strength and durability of the building, thereby resulting in substantial reduction in construction cost.

## CHEMICAL COMPOSITION (%) Grade Fe 500

Sl. No.	Content	Percentage (%)
1.	Carbon (maximum)	0.25
2.	Sulphur (maximum)	0.05
3.	Phosphorous (maximum)	0.05

## PHYSICAL PROPERTIES FOR GRADE Fe 500

Sl. No.	Tests	Test Values
1.	Yield stress (minimum)	530N/mm <sup>2</sup>
2.	Elongation (minimum)	16%
3.	Tensile Strength (minimum)	600N/mm <sup>2</sup>

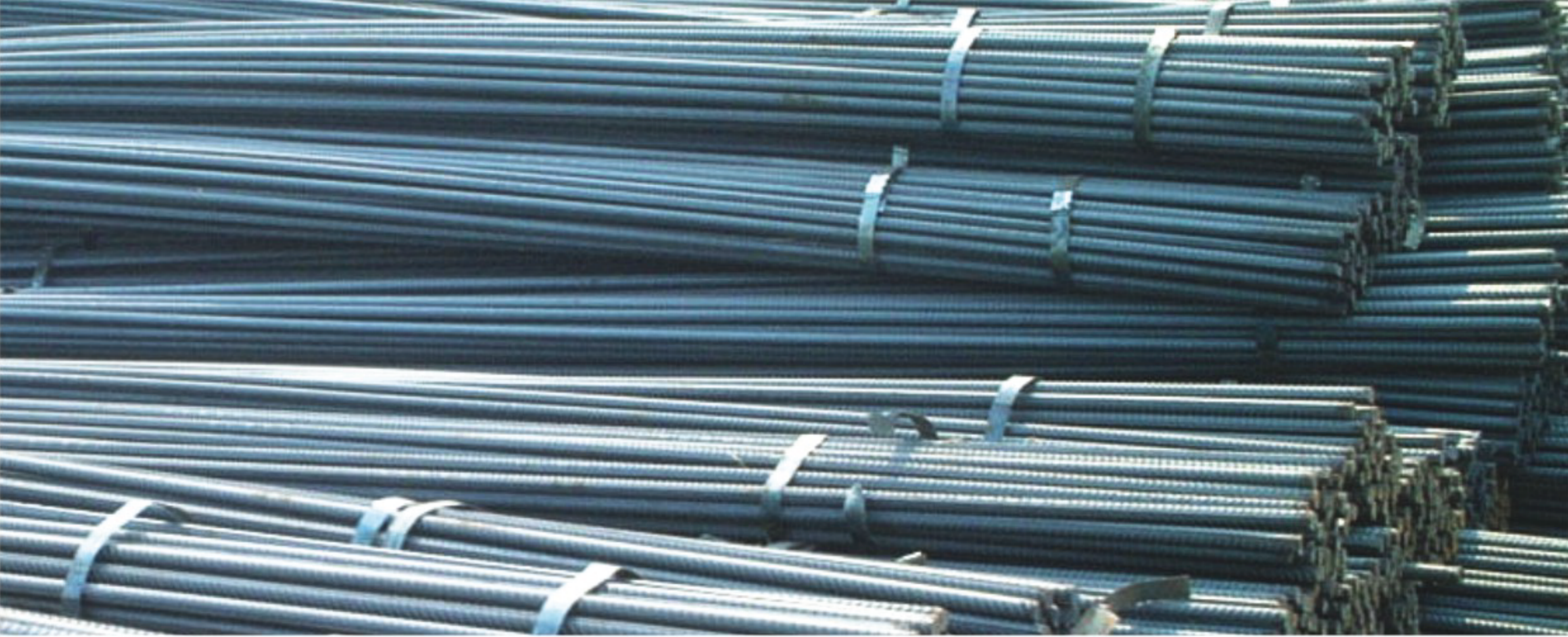
## 'KAY2 TMT REBARS' AVAILABLE PRODUCTS VARIANT IN:

**GRADES** Fe 500 & Fe 500D etc.

**DIAMETER** 6, 8, 10, 12, 16, 20, 25  
(28 & 32 available on bulk demand)







# KAY2 TMT Rebars - Maximum Advantages, Best Choice

1. Premium Quality KAY2 TMT Rebars are made from billets
2. Excellent quality and surface finish due to premium quality of R/M & latest rolling techniques.
3. Continuous R & D and an eye on the global technology trends to ensure that our customer get the best.
4. Sophisticated labs to consistently check the quality of Rebars
5. Strict metallurgical control is maintained at every stage of production, from receipt of R/M to dispatch of finished product. The company has a dedicated Quality Assurance Department with well equipped laboratories & trained technicians to monitor the process and materials at different points.
6. Our quality assurance system as well as the entire process keep upgrading from time to time.





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