Fe 550D VIZAG TMT RE-BAR

Thermo Mechanically Treated (quenched and self tempered) reinforcing bars, popularly known as TMT rebars, are the backbone of any concrete structure which hold together the entire structure to withstand dead as well as live loads. These rebars thus should have perfect combination of strength and ductility so that the structure can withstand unpredictable loads during natural calamities like earthquake, windstorms etc.

VIZAG TMT rebars which are produced using high grade raw materials through patented technologies-TEMPCORE and STELMOR are equipped to have all the properties in right combination.

These rebars are marketed under BIS licensed grade IS1786 with different categories and Fe 550D is one such grade.

VIZAG-TMT Fe 550D rebars are produced to have higher yield strength without sacrificing other important properties like ductility and toughness.

SALIENT FEATURES OF VIZAG TMT Fe 550D REBARS

- Produced with Tempcore (16mm and above) and Stelmor (8-12mm) QST Technologies
- Made from 100% virgin and fully killed steel
- Higher reduction ratio due to higher input size (Blooms 320x250mm) and so very good internal soundness
- Perfect ratio of tempered martensite on the outer layer and ferrite - pearlite at the core for desired combination of strength and ductility
- Higher UTS/YS ratio enables the structure to absorb fairly large amount of energy and higher uniform elongation make these capable of getting deformed to a much larger extent before ultimate failure in case of any unnatural loads
- Superior Rib Design for required bond strength
- Well designed cooling facilities for excellent self tempering with no residual stress so improved resistance to ageing
- Automated piling and strapping - easy for handling
- In built ability to resist loss of strength at higher temperature
- Requires less energy for bending & re-bending (superior bendability)
- Can be butt welded or lap welded
- High Fatigue resistance on dynamic loading (clean steel and fine grain size) & Better Toughness
- Bars can be bent, galvanized and straightened without loss of tensile properties
- Less congestion and so more concrete cover and compaction for the same structure due to lower steel requirement
- Sectional weight on negative side of the tolerance (More length per unit weight)
- 10-15 % savings in steel compared to Fe 415 and Fe 500 variety.
- Non conforming products disposal as per Quality Control Order (QCO)
- Manufactured to meet the demand of various National Infrastrucrtre Pipeline (NIP) projects including Long Span bridges, High rise buildings etc.

Sharing dreams of Nation Building

AIRPORTS	METRO RAIL	NUCLEAR POWER PLANTS	NATIONAL HIGHWAYS	THERMAL POWER PLANTS
Bangalore, Kochi, Delhi, Hyderabad, Mumbai & Chandigarh	Delhi, Hyderabad, Kolkata, Chennai, Jaipur, Mumbai, Kochi & Nagpur	Kudamkulam Kaiga Tarapore	Yamuna Expressway Ahmedabad-Vadodara Expressway Eastern Freight Corridor Mumbai-Pune Express way	Dhabol & Rajpura POLAVARAM PROJECT