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Experience  
the New Age of  
**Galvanized**  
TMT Bars

**First time in ASIA**  
manufactured by  
Globally acclaimed  
**CGR Technology**



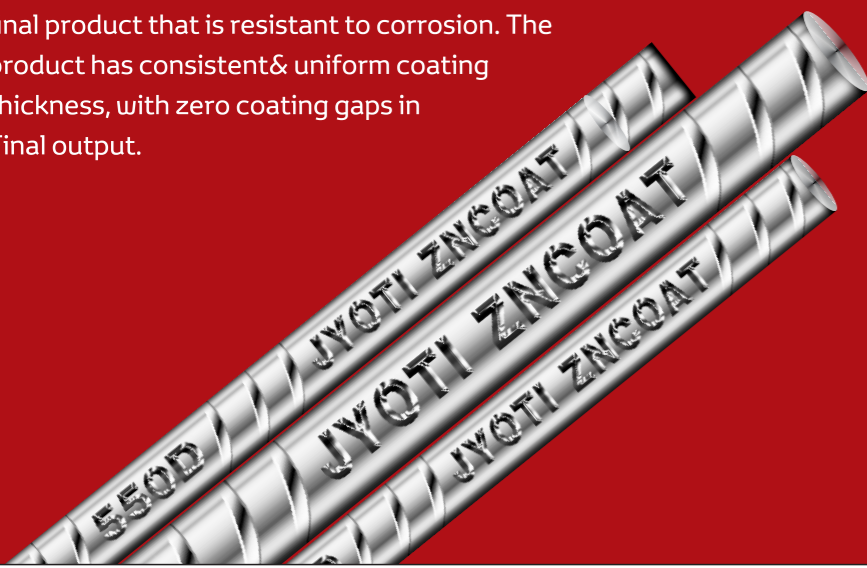
Strengthened bonding | Protection from Rust | Enhanced Life

# The new age Galvanised TMT Bar

Presenting JYOTI ZINC COAT Tempcore TMT Bars, with specialised Zinc Coating and manufactured for the **First time in Asia by CGR Technology – Continuous Galvanising rebars**. The Zinc coated TMT Bars are much superior and have a advanced life span, plus adding to the product appeal is a better product outlook and unique packaging.

JYOTI ZINC COAT Tempcore TMT Bars, are coated with Zinc and then surface passivation treatment is carried out on them. This induces a Protective layer onto the TMT Bar. Therefore the result is a double layered Final product thereby creating more life for the TMT bars inside a concrete environment.

Zinc provides unbeatable protection which is much advance than other coating options. Coating process is carried out by patented Continuous Galvanizing Rebars (CGR) providing optimal coating thickness, which makes final product that is resistant to corrosion. The product has consistent & uniform coating thickness, with zero coating gaps in Final output.



- **Protection from Rust** (Salt spray life min. 100 hours in 5% NaCl solution)
- **Dual Protection layering with CGR** (Zinc coating with Passivation)
- **Enhanced bond strength** of rebar with concrete
- **Product Available** in HDPE Micro (60-80 kg) & Macro bundles (upto 2 tons)
- **Bendability and Weldability** are equivalent to normal uncoated rebars
- **No peeling of Coating**
- **Earthquake resistance**

 <b>Superior Corrosion Protection</b>	 <b>No Special Handling</b>
 <b>Unparalleled Bond Strength</b>	 <b>Beauty that Lasts</b>
 <b>Exceptional Life Cycle Cost</b>	 <b>GSM - 350 (Minimum)</b>

Since the salt spray test is a standardized, most practiced and accepted corrosion test method as per ASTM B117-11, which is used to verify corrosion resistance of surface coating. Comparative salt spray testing (continuous exposure to 5% NaCl) of Jyoti Zinc Coat Tempcore TMT bars and ordinary rebars showed that there was absolutely negative rust on Jyoti Zinc Coat Tempcore TMT bars, and that too after 100 hours of exposure to the solution. Whereas the uncoated ordinary rebars developed a complete superficial red oxide layer just after a short exposure period of 20 hours.

BRIDGES



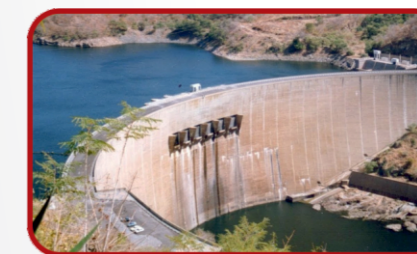
## SPECIALIZED STRUCTURES



## BUILDINGS



## EXPRESS HIGHWAYS



## DAMS



## HOUSES

### of Galvanized Rebar in comparison with un coated TMT Rebars

- Increase in Life of steel by 2 times
- 2%-4% increase in Bonding Strength

- Higher benefit vs cost
- Enriched Product with prolonged life.
- Greater Product satisfaction Rate



## PRODUCT SPECIFICATIONS

<b>Trade Mark</b>	Jyoti ZNCOAT Tempcore TMT Bar	1786 ISI
<b>Grades</b>	Jyoti Tempcore -Fe 500, Fe 550, Fe 500D, Fe 550D	
<b>Diameter</b>	8, 10, 12, 16, 20, 25, 28, 32, 36, 40 mm	

## PHYSICAL PROPERTIES

Size	Jyoti ZNCOAT Tempcore	I.S.I standard
8 MM	380 to 400 gm/mtr	367 to 422 gm/mtr
10 MM	580 to 605 gm/mtr	574 to 660 gm/mtr
12 MM	850 to 880 gm/mtr	844 to 932 gm/mtr
16 MM	1530 to 1595 gm/mtr	1501 to 1657 gm/mtr
20 MM	2410 to 2490 gm/mtr	2394 to 2544 gm/mtr
25 MM	3800 to 3899 gm/mtr	3735 to 3965 gm/mtr

## MECHANICAL PROPERTIES

Parameter	Jyoti ZNCOAT Tempcore			
	500	500 D	550	550 D
Yield Strength	520 N/mm <sup>2</sup>	520 N/mm <sup>2</sup>	565 N/mm <sup>2</sup>	565 N/mm <sup>2</sup>
Tensile Strength	620 N/mm <sup>2</sup>	620 N/mm <sup>2</sup>	655 N/mm <sup>2</sup>	655 N/mm <sup>2</sup>
Elongation	18%	18%	18%	18%

## CHEMICAL PROPERTIES

Carbon	0.18 to 0.25 max
Manganese	0.45 to 0.70 max
Sulphur	0.030 to 0.045 max
Phosphorus	0.030 to 0.045 max

- It is extremely essential to use only GI binding wires with Jyoti Zinc Coat Tempcore TMT Bars.
- Jyoti Zinc Coat Tempcore TMT Bars preferably should not be stored and used alongside uncoated TMT Bars.
- Sufficient measures should be taken to make sure that bundles are not dragged on rough surfaces.

