

MADHAV KRG GROUP

JYOTI

EK KADAM AAGE

TMT BARS • PIPES • TUBES • GP COILS

Madhav KRG Ltd

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ZNCOAT TEMPCORE

TMT BARS

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

JYOTI ZINC COAT TEMPCORE TMT BARS

The new age Galvanised TMT Bar

JYOTI the flagship brand of Madhav KRG Group, has been a pioneer when it comes to Innovation and Quality enhancement. Steel has always been an essential part of every foundation, and what better way to augment the foundation than to give a robust and long lasting 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.

Specialised Coating Technique

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.



ADVANTAGES OF JYOTI ZINC COAT TEMPCORE TMT BARS

- **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**

Why Choose Galvanized Rebar?

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

JYOTI ZINC COAT TEMPCORE TMT BARS vs ORDINARY TMT BARS

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



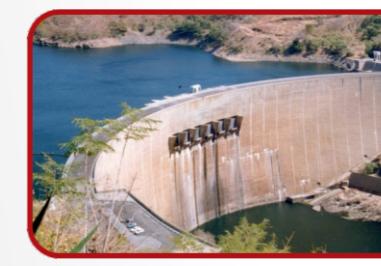
SPECIALIZED STRUCTURES



BUILDINGS



EXPRESS HIGHWAYS



DAMS



HOUSES

Important Facts

of Galvanized Rebar in comparison with un coated TMT Rebars

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

Steel that promises more value to your buildings

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

JYOTI
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ZNCOAT TEMPCORE
TMT BARS

PRODUCT SPECIFICATIONS

Trade Mark Jyoti ZnCoat Tempcore TMT Bar ¹⁷⁸⁶ ISI

Grades Jyoti Tempcore -Fe 500, Fe 550, Fe 500D, Fe 550D

Diameter 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/mm² 520 N/mm² 565 N/mm² 565 N/mm²

Tensile Strength 620 N/mm² 620 N/mm² 655 N/mm² 655 N/mm²

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

Handling Norms

- It is extremely essential to use only G.I 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.

