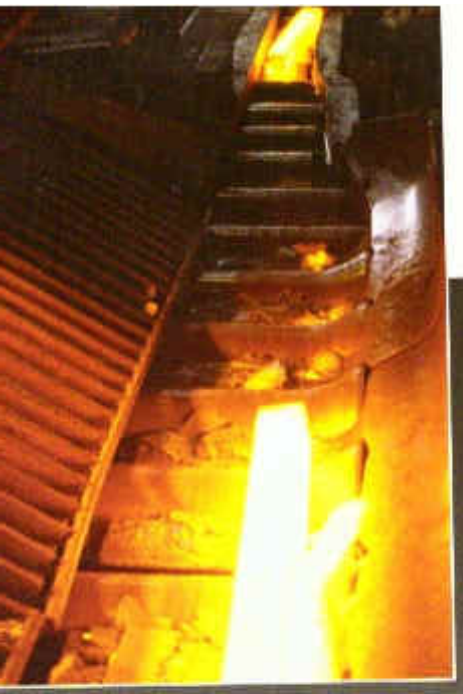

SHRISHTII - TMT

SHRISHTII TMT®

ANDAR SE MAZBOOT

THE STEEL WITH A DIFFERENCE

AN ISO 9001 : 2008 COMPANY

During these years SHRISHTII TMT bars, which are the perfect combination of strength, economy & trust have been developed by SCAN STEELS LIMITED in collaboration with world famous Belgium Centre de Recherches Metallurgiques (Centre of Metallurgical Engineering, Belgium) makes use of **" TEMPCORE " CRM – BELGIUM Technology,** to produce the best thermo mechanically treated (TMT) steel rods.

The USP about this product is its unique chemical composition that gives it power beyond the scope of ordinary steel rods. All SHRISHTII TMT bars are made in accordance with the ISI standards and standards of TEMPCORE, the licensee.

Product Range:

SHRISHTII TMT bars are available in various diameters ranging from 8mm, 10mm, 12mm, 16mm, 20mm, 25mm, 28mm & 32mm. We also produce 16mm, 20mm, and 25mm plain rods.

The mark of SHRISHTII TMT bar:

SHRISHTII TMT bar is a registered trade mark of SCAN STEELS LIMITED. To purchase a genuine SHRISHTII TMT bar look for the SHRISHTII TMT logo that is carved on the TMT bar in its own style.

Advantages of **SHRISHTII TMT Bars**

HIGH TENSILE STRENGTH

SHRISHTII TMT rods are special grade of TMT bars that are more consistent in strength and able to bear continuous load. SHRISHTII TMT bars are ideal for heavy load structures like making of flyover, dams etc and other critical structures where high yield stress is required without compromising on ductility.

EARTHQUAKE – RESISTANT QUALITY

Its high tensile strength means SHRISHTII TMT rods are more resistant to earthquakes, unlike ordinary, weaker rods. Due to its uniform weight and cross section it can withstand heavy pressure for longer periods of time.

UNIFORM WEIGHT

Due to its uniform weight and cross section, SHRISHTII TMT rods can withstand heavy pressure for longer periods of time. Ordinary rods, with varying degrees of strength at different sections, make constructions weaker and increase costs.

GREATER BENDABILITY AND GRIPPING POWER

The perfect chemical and mechanical properties allow SHRISHTII rods to bend easily, without breaking. Its evenly designed ribbed pattern gives it greater gripping power, which imparts solid strength to any critical constructions.

LOWER CARBON COMPONENT

Thanks to the unique low carbon composition of SHRISHTII TMT rods, they are easy to weld and do not lose strength during welding process, unlikely ordinary rods.

HIGH TEMPERATURE RESISTANCE

Where ordinary rods lose power at about 300°C, SHRISHTII rods stay super-strong and super-safe even at 500°C.

Operational **Excellence**

SHRISHTII TMT Bar Strengths

Chemical properties

Chemical properties	Unit	IS : 1786 (Fe-415)	SHRISHTII TMT (Fe 415)	IS : 1786 (Fe-500)	SHRISHTII TMT Fe 500
Carbon	%	0.30 max	0.25	0.30 max	0.25
Sulpher	%	0.060 max	0.060	0.055 max	0.055
Phosphorous	%	0.060 max	0.060	0.055 max	0.055
S and P	%	0.110 max	0.110	0.105max	0.105

Mechanical Properties

Mechanical properties	Unit	IS : 1786	SHRISHTII TMT Fe 415	SHRISHTII TMT Fe 500
Yield Stress	N/mm²	415.0	415	500
Ultimate Tensile Strength	N/mm²	485	495	500 to 600
Elongation	%	14.5	14.5	15
Bend test		No crack should be observed	Satisfies	Satisfies
Rebend Test		No crack should be observed	Satisfies	Satisfies

Comparative chart with ISI standard

		ISI standards			Scan standards
Section	Wt./mtr in Gms	Tolerance limit in gms	% allowed variation	Wt./mtr in gms	Wt./mtr tolerance
8mm	395	367 to 423	±7%	390	380 to 400
10mm	617	574 to 660	±7%	590	580 to 616
12mm	888	840 to 952	±5%	860	850 to 888
16mm	1580	1501 to 1659	±5%	1540	1530 to 1580
20mm	2470	2398 to 2544	±3%	2445	2440 to 2480
25mm	3850	3735 to 3865	±3%	3800	3790 to 3860