

50+
Years of Trust



Steel That India Trusts

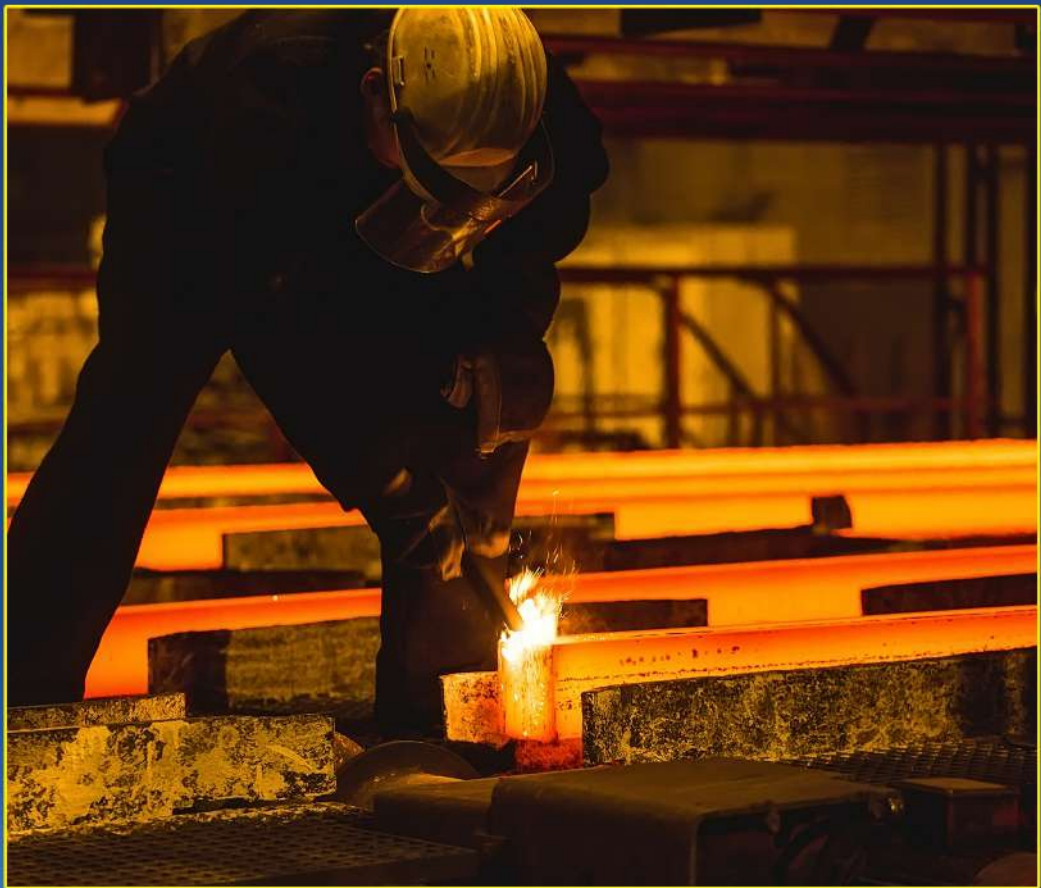
UHD

**ULTRA
HIGH DUCTILITY**

AAJ BANAYEIN AANEWALA KAL



www.jindalhissar.co.in



COMPANY PROFILE



SGRM (Hissar, India) produces the finest quality TMT bars under the brand name JINDAL. Our cutting edge technology coupled with state of the art facilities ensure the best in class offerings for our valued customers and we are greatly trusted by engineers, architects, building professionals and individual home builders. JINDAL's global recognition and credibility continues to grow by leaps and bounds and we are proud to be globally renowned as the most trusted and exceptional TMT bars manufacturer in India.

Our product portfolio spans across the steel value chain ranging from TMT bars to M. S. Angle, M. S. Channel and M. S. Girder. We ensure quality at every step, from the input of raw material to the final product delivered on site. Each product is rolled after passing through high quality tests and certifications. We ensure that the product meets stringent norms and quality standards.

Regular and constant dynamism, innovation, expansion and technological upgradation is moving ahead with its time tested motto in product quality and customer satisfaction which is second to none. In the global scenario SGRM (Hissar, India) Ltd. is continuously striving to be a customer driven organization, marketing highest quality products at competitive price. This product innovation has been a perfect balance of strength and flexibility, which is perfectly suited for all types of construction purposes such as high rise buildings, bridges, roads, flyovers, dams, airports, railways, industries and houses.





POWER OF UHD



ULTRA HIGH DUCTILITY

Jindal UHD TMT bars are manufactured with distinctive German technology in our ultra-modern HUGST rolling mill which produces pure and eco-friendly steel. During the manufacturing process the TMT bars pass through the water spray system in the quenching box. The moment hot TMT bars come in contact with cold water, the outer surface hardens and becomes martensite wherein the inner core remains soft. Throughout this water spray system (Advanced Thermex Technology) the TMT bars turn out to be ultra-highly ductile.



By giving the TMT bars the ability to be elongated without losing its inherent strength, UHD technology works wonders! Consequently, it makes them capable of absorbing sudden loads, making them resistant against various natural disasters such as hurricane, tsunami, cyclone and earthquake. The UHD feature plays an integral role in increasing bendability, flexibility, longevity & warranting safe concrete robust structures. It surpasses the construction standards of countries particularly prone to earthquake like U.K, China, Indonesia, India and Japan.



PURE STEEL

We use virgin iron ore to produce pure steel at our integrated steel plant. Iron, Carbon and Ferro Alloys are added in our furnaces and are melt at 1650°C. The molten metal after the removal of slag is taken to LRF (refining furnaces) and fed to continuous casting machine. The molten iron is transformed into high quality pure steel billets. These pure steel billets are used to manufacture Jindal UHD TMT bars. Due to high purity Jindal UHD is

easily weldable, exceptionally bendable, anti-corrosive and durable. Thus guaranteeing your dream home stands on nothing less than the purest quality of TMT bars.



EARTHQUAKE RESISTANT

Earthquake resistant TMT bars are a must for any unshakable construction. As eastern India is mainly in the fourth and fifth zone, it possesses the highest risk of earthquakes among the different seismic zones of India, making it essential to go to great lengths while constructing buildings.

Our superior quality TMT bars with Ultra High Ductility have exceptional capacity to absorb enormous amounts of energy released during earthquakes. Jindal UHD TMT bars will bend but not break. This ensures that when buildings are shaken up during an earthquake, they can retain their structure. As opposed to regular TMT bars that crack over time, our TMT bars can absorb extreme pressure, stand resilient and protect your dream home.





High Strength:

Jindal UHD TMT bars are made with High UTS Quenching and self tempering technology resulting in more strength major savings in steel consumption.



Pure Steel:

Manufactured from highest quality billets produced in our own integrated Steel Plant to withstand load under adverse conditions.



Solid Bonding:

TMT bars ensures excellent bonding with concrete because of scientific rib pattern, that gives higher air value ensuring solid bonding with concrete.



Anti Corrosion:

Manufactured in special process without cold stress. Due to high grade of technology our TMT bar does not get rusted in sub-tropical monsoon climate.



Eco-friendly Steel:

Jindal UHD TMT bars are made in rolling mills having Zero effluent discharge and is environment friendly.



Better Bendability:

A perfect balance of strength & ductility. Easy bendability due to ultra high ductility, tough outer surface and ductile core.



Earthquake Resistance:

The Thermo Mechanical Treatment results in higher elongation resulting in higher resistance against earthquake stress.



Fire Resistance:

Can sustain temperature of even 550° C. Ordinary TMT bars losses strength at even 250° C.



Weldability:

TMT bars have excellent weldability as they are superior in quality because of low carbon content.



Brand Promise:

50 years of excellence in surpassing national & global standards.

PROCESS FLOW DIAGRAM



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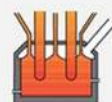
Payloader



DRI kiln (Sponge Iron)



Pig Iron



Submerged Arc Furnace (Ferro Alloys)



Steel melt furnace



Ladle refining furnace





MECHANICAL PROPERTIES

Mechanical Properties	IS : 1786-2008		United Kingdom B.S. 4449/2005		JINDAL UHD TMT
GRADE	Fe-500D	Fe-500	Fe-500D	Fe-500C	Fe-550 UHD
YS MIN. MPa	500	500	540	565	550
UTS MIN	565	545	540	565	635
UTS/YS MIN	1.10	1.08	1.08	1.15	1.15
%TOTAL ELONGATION	16 MIN	12 MIN	N.S	N.S	16.0 MIN
%ELONGATION UPTO UTS	5.0 MIN	-	5.0 MIN	7.5 MIN	8.0 MIN
APPLICATION	GENERAL	GENERAL	GENERAL	SEISMIC ZONE	GENERAL + SEISMIC ZONE



CHEMICAL COMPOSITION

Chemical Properties	Unit	Fe500	Fe500D	Fe550	JINDAL UHD TMT
CARBON	%	0.300	0.250	0.300	0.250
SULPHUR	%	0.055	0.040	0.055	0.040
PHOSPHOROUS	%	0.055	0.040	0.050	0.040
S & P	%	0.105	0.075	0.100	0.075

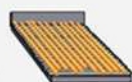
Size range : 6mm / 8mm / 10mm / 12mm / 16mm / 20mm / 25mm / 28mm / 32mm



Billet caster



Rolling mill



Automatic
cooling bed



Automatic
bundling



Stockyard



Dispatch



The quality product from the house of
SHREE GANESH ROLLING MILLS (INDIA) LTD.

17, Maruti Complex, Delhi Road, Industrial Area, Hissar - 125005
 Haryana, India



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