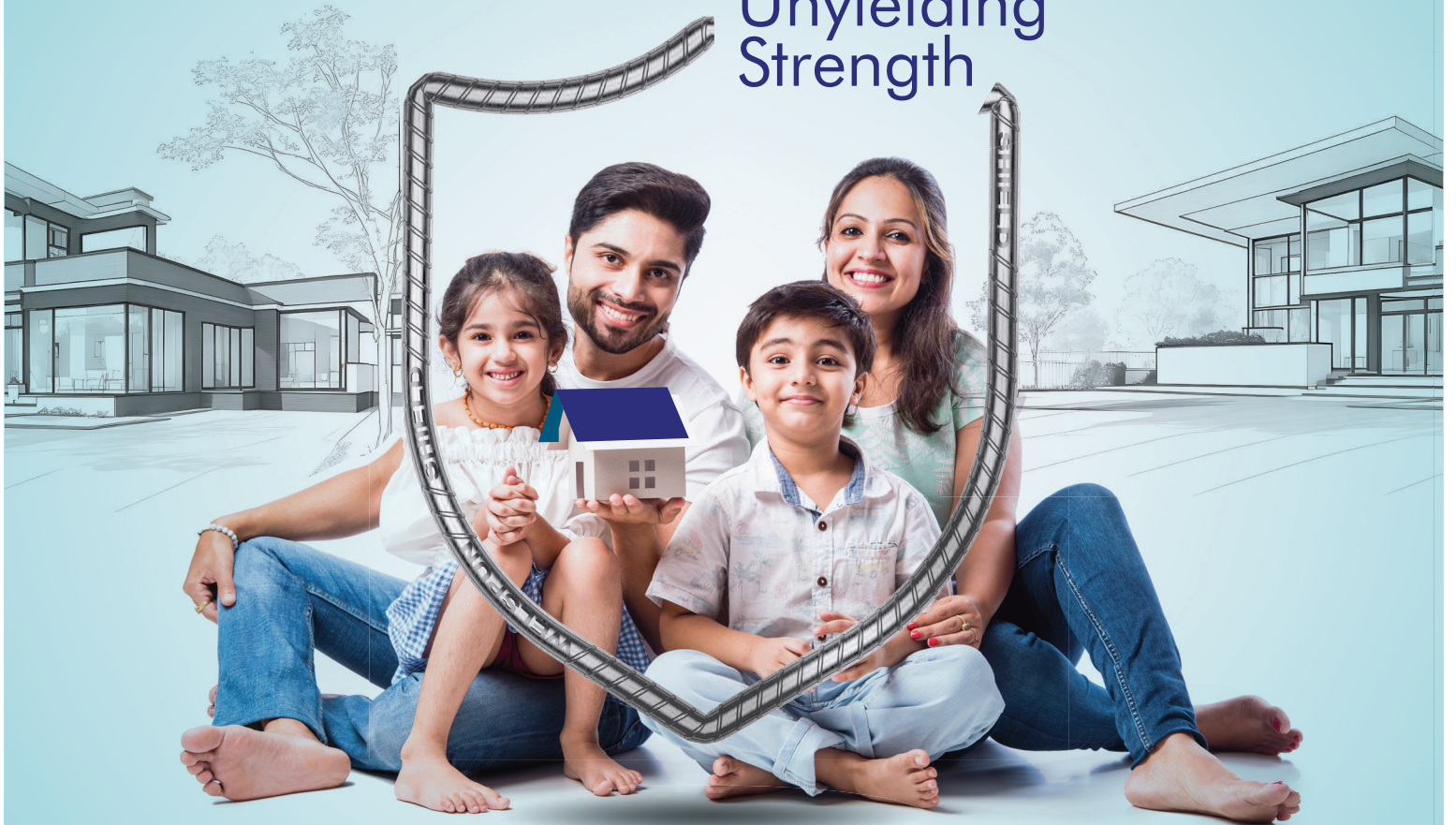




Welspun
Shield



Where
Trust Meets
Unyielding
Strength



Welspun Corp Ltd. (WCL) is a flagship company of global conglomerate 'Welspun Group', one of India's fastest-growing multinationals with a leadership position in line pipes, home textiles, infrastructure, warehousing, retail, advanced textiles, and flooring solutions.

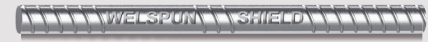
WCL is one of the largest manufacturers of large diameter line pipes, with state-of-the-art facilities located across India, USA and Saudi Arabia. WCL has recently forayed into the production of Pig Iron, manufacturing of Ductile Iron (DI) Pipes and Thermo Mechanically Treated Reinforcing Bars (TMT Rebars). The company also manufactures Stainless Steel Pipes, Tubes & Bars.

"Welspun Shield", the latest offering from WCL, through its fully-owned subsidiary, Anjar TMT Steel Private Ltd., is one of the cutting-edge manufacturers of TMT Rebars complying with Indian as well as

International standard specifications. This facility, with a manufacturing capacity of 400 KMTPA, is located within Welspun City, Anjar, Gujarat. Welspun Shield is touted to be one of the highest-quality, earthquake-resistant TMT Rebars manufactured in the country. Our promise of impeccable quality, innovation, and engineering excellence across our processes is our USP, making our entire product portfolio stand out, on a global scale.



Welspun Shield



Advanced Technology

Our TMT Rebars are manufactured using world-class Iron ore or Iron ore pellets sourced from globally recognized suppliers, along with coal imported from South Africa and Indonesia to make quality Direct Reduced Iron (DRI). This DRI is then processed into steel billets at our state-of-the-art steel melting shops.

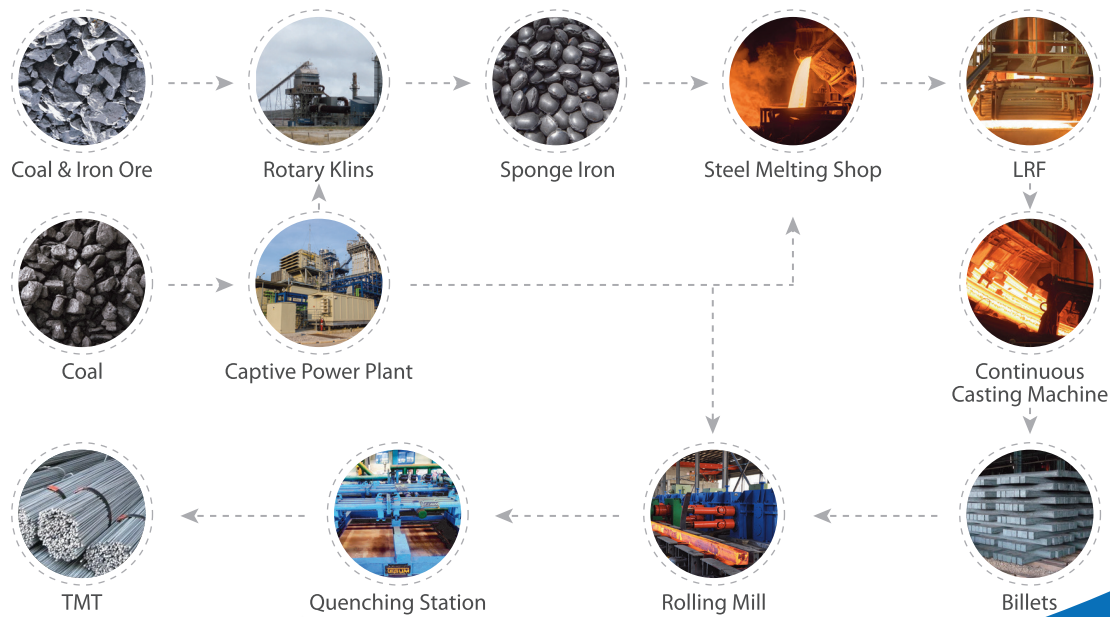
Our facility is equipped with :

- Latest Quenching & Self-Tempering technology - Tegum (HSE Germany)
- A laboratory with modern testing facilities and instruments like Universal Testing Machine, Bar Bending and Re-bending Machine, Metallurgical Microscope, Spectrometer for Chemical analysis etc.

Facility Overview

Facility	Capacity & Capability
Blast Furnace (BF)	500 KMTPA
Rolling Mill Capacity	400 KMTPA (Continuous Mill)
Induction Furnace (IF)	Total Capacity 90 MT (2 furnaces of 45 MT each)
Direct Reduced Iron (DRI)	4 Kilns (100TPD each)
Captive Power Plant (CPP)	135 MW
Ladle Refining Furnace (LRF)	45 MT
Quenching and Self-Tempering (QST)	Tegum (HSE Germany)
Diameter	8mm to 40mm
Grades	Fe500, Fe500D, Fe550, Fe550D, CRS
Length	12 meters
Bundle Weight	2 to 3 MT

Process Flow



Bendability

Welspun Shield TMT Rebars are flexible in nature and offers excellent re-bend properties.



Uniform Rib Pattern

Ribs provide bonding strength between TMT Rebars and Cement. This provides strength to the structures. In seismic zones, these ribbed TMT Rebars provide an extra layer of safety.



Weldability

Our TMT Rebars have a carbon content of less than 0.25%. As a result, no pre-heating is required and wastage due to welding can be reduced considerably.



Corrosion Resistance

Freshly-produced Welspun Shield TMT Rebars are rapidly cooled with jets of water. This process of cooling causes them to develop a hard outer layer called "martensite" which has excellent corrosion-resistant properties.



Earthquake Resistant

During seismic events and aftershocks, the elongation and ductility qualities, along with fatigue resistance of our TMT Rebars provide better adjustment to tensile stress or inelastic stresses.

Chemical Properties								
Parameters	Grade Fe500		Grade Fe500D		Grade Fe550		Grade Fe550D	
	BIS 1786:2008	Welspun Shield	BIS 1786:2008	Welspun Shield	BIS 1786:2008	Welspun Shield	BIS 1786:2008	Welspun Shield
%Carbon	0.30 max	0.20 - 0.27	0.25 max	0.20 - 0.24	0.30max	0.22 -0.28	0.25 max	0.20 - 0.24
%Silicon	0.10 min	0.15 - 0.30	0.10 min	0.15 - 0.30	0.10 min	0.15 - 0.30	0.10 min	0.15 - 0.30
%Manganese	-	0.50 - 1.00	-	0.50 - 1.00	-	0.60 - 1.00	-	0.60 - 1.00
%Sulphur Max	0.055	0.050	0.040	0.035	0.055	0.045	0.040	0.035
%Phosphorus (Max)	0.055	0.050	0.040	0.035	0.050	0.045	0.040	0.035
%(S+P) Max	0.105	0.100	0.075	0.070	0.100	0.095	0.075	0.070
%Carbon Equivalent Max	0.42	0.30 - 0.40	0.42	0.30 - 0.40	0.42	0.35 - 0.40	0.42	0.35 - 0.40

Mechanical Properties								
Parameters	Grade Fe500		Grade Fe500D		Grade Fe550		Grade Fe550D	
	BIS 1786:2008	Welspun Shield	BIS 1786:2008	Welspun Shield	BIS 1786:2008	Welspun Shield	BIS 1786:2008	Welspun Shield
Yield Stress (N/mm2) min	500	520	500	520	550	570	550	565
Tensile Strength (N/mm2) min	545	600	565	600	585	630	600	650
UTS/YS ratio min	1.08	1.15	1.1	1.15	1.06	1.10	1.08	1.15
% Elongation min	12	14	16	18	10	12	14.5	17

Registered Office & Plant Address:

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Visit us at: www.welspuncorp.com

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