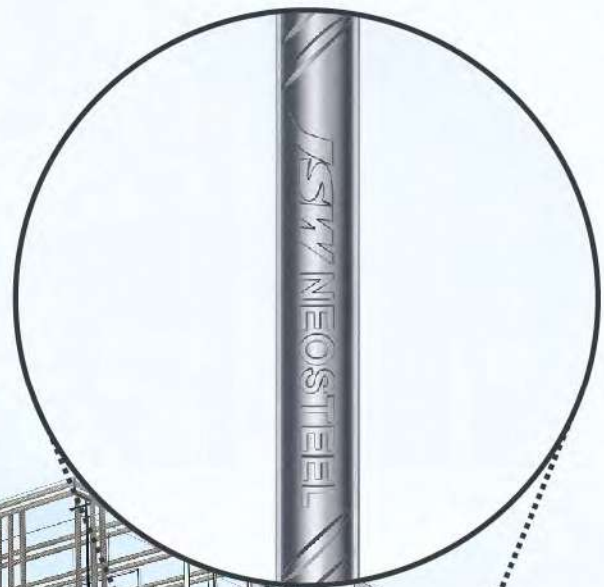




Pure TMT Bars

Pure Steel.  
Pure Mazbooti.





## JSW Group

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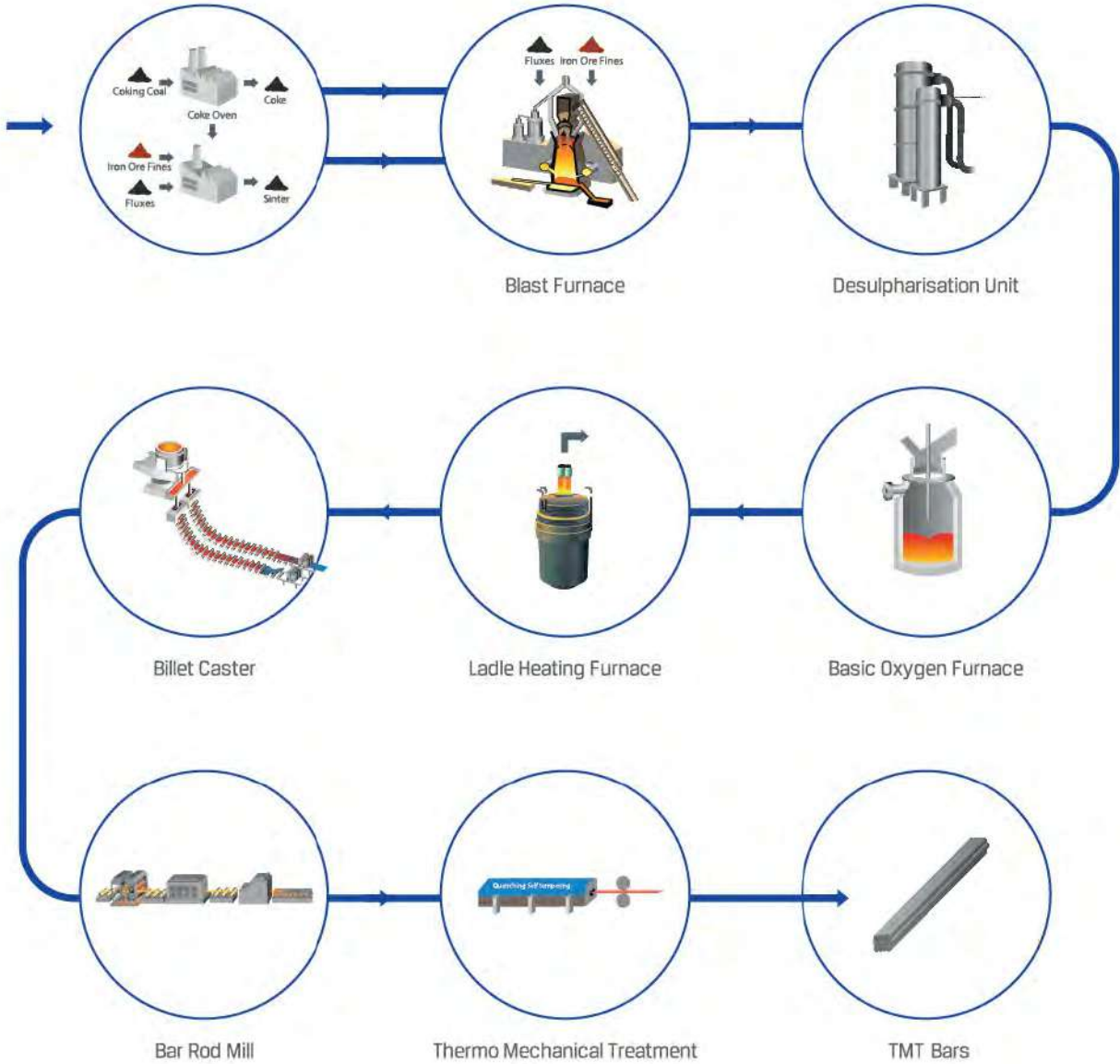
An \$13 billion conglomerate, with presence across India, USA, South America, Italy & Africa, the JSW Group is a part of the O.P. Jindal Group with strong footprints across economic sectors, namely, Steel, Energy, Infrastructure, Cement, Paints also in Ventures and Sports. The Group is paving the way for India's development as a global superpower. JSW Steel is India's leading steel producer and among the world's most illustrious steel company. The Group is also leading in every sector that it operates in.

## JSW Steel Ltd.

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The flagship company of USD 11 billion JSW Group, JSW Steel is one of India's leading integrated steel manufacturers with a capacity of 18 MTPA. It is one of the fastest growing companies in India with a footprint in over 110 countries. With state-of-the-art manufacturing facilities located in Karnataka, Tamil Nadu, Maharashtra, USA & Italy, it is recognized for its innovation and quality. JSW offers a wide gamut of steel products that includes Hot Rolled, Cold Rolled, Electrical Steel Bare & Pre-painted Galvanized & Galvalume®, TMT Rebars, Wire Rods Special Alloy Steel & Tinplate.

# Manufacturing Process



## Typical macrostructure of JSW Neosteel



Ferrite and Pearlite Core Result: Tough Surface and strong fine-grain core

Tempered Martensite Surface Layer

# Advantages of JSW Neosteel



## Highest level of purity

Manufactured from iron Ore, our TMT bars have the highest grade of purity and lowest sulphur and phosphorous content, making it strong.

## Best bonding with Cement

Well-defined ribs that exceed the standard Ar value specifications, ensuring best bonding with cement.



## Earthquake Resistant

Excellent combination of strength, bendability, ductility and fatigue resistance is the best match for earthquake prone zones

## Easy Weldability

Provides excellent weldability due to low carbon content.





### Anti-Corrosive

Unique & uniform microstructure due to HYQST technology that gives higher corrosion resistance

### Easy Bendability

JSW Neosteel can be bent into customized shape in spite of having very high strength due to its inherent microstructure with soft ferrite and pearlite core.



### Higher Fatigue Resistance

JSW Neosteel is excellent in cyclic loading situations due to uniform & critically designed rib pattern

### Green Steel

Plant with zero effluent discharge.



# TECHNICAL SPECIFICATIONS

JSW NEOSTEEL Pure TMT Bars are made in grades designated as Fe-500D, Fe-550D & R Fe 600 as per IS : 1786-2008 for concrete

Chemical Composition						
	%C (max)	%Mn (max)	%Si (max)	%P (max)	%S (max)	CE (max)
JSW NEOSTEEL Fe 500D	0.23	1.00	0.40	0.03	0.03	0.4
JSW NEOSTEEL Fe 550D	0.23	1.00	0.40	0.03	0.03	0.4
IS 1786 Fe 500D	0.25	-	-	0.04	0.04	0.42
IS 1786 Fe 550D	0.25	-	-	0.04	0.04	0.42

\*Typical values for 95% of heat

Mechanical Properties				
	Yield Strength N/mm <sup>2</sup> (min.)*	Tensile Strength N/mm <sup>2</sup> (min.)	UTS/YS Ratio	% El (min.)
JSW NEOSTEEL Fe 500D	520	600	1.15	18
JSW NEOSTEEL Fe 550D	570	630	1.1	16
IS 1786 Fe500D	500	565	1.1	16
IS 1786 Fe550D	550	585	1.08	14.5

\*Typical values for 95% of heat

Bend Properties		
	Mandrel Diameter Upto and including 20 mm	Mandrel Diameter Over 20 mm
JSW NEOSTEEL Fe 500D	3d	4d
JSW NEOSTEEL Fe 550D	4d	5d
IS 1786 Fe 500D	3d	4d
IS 1786 Fe 550D	4d	5d

\*d: nominal size of test piece in mm

Re-bend Properties		
	Mandrel Diameter Upto and including 10 mm	Mandrel Diameter Over 10 mm
JSW NEOSTEEL Fe 500D	4d	6d
JSW NEOSTEEL Fe 550D	6d	7d
IS 1786 Fe 500D	4d	6d
IS 1786 Fe 550D	6d	7d

\*d: nominal size of test piece in mm

Product Range and Nominal Weight			
Nominal size (mm)	Weight per meter (kg)	Nominal size (mm)	Weight per meter (kg)
8	0.395	25	3.85
10	0.617	28	4.83
12	0.888	32	6.31
16	1.58	36	7.99
20	2.47	40	9.86

\*Supplies will be in line with weight tolerances as per IS:1786-2008

BIS: IS 1786:2008 Amend No.3

JSW Neosteel BIS Grades: Fe 500D, Fe 500S, Fe 550D & Fe 600.

JSW NEOSTEEL CRS BARS AVAILABLE ON ORDER

# JSW Neosteel Mega projects



Eastern Freeway, Mumbai



Yamuna Expressway



Indira Gandhi International Airport, Terminal 3, Delhi



Infosys, Bengaluru



Kakrapar Nuclear-Plant



Metro Projects - Delhi, Chennai, Hyderabad, Kolkata, Lucknow, Kochi

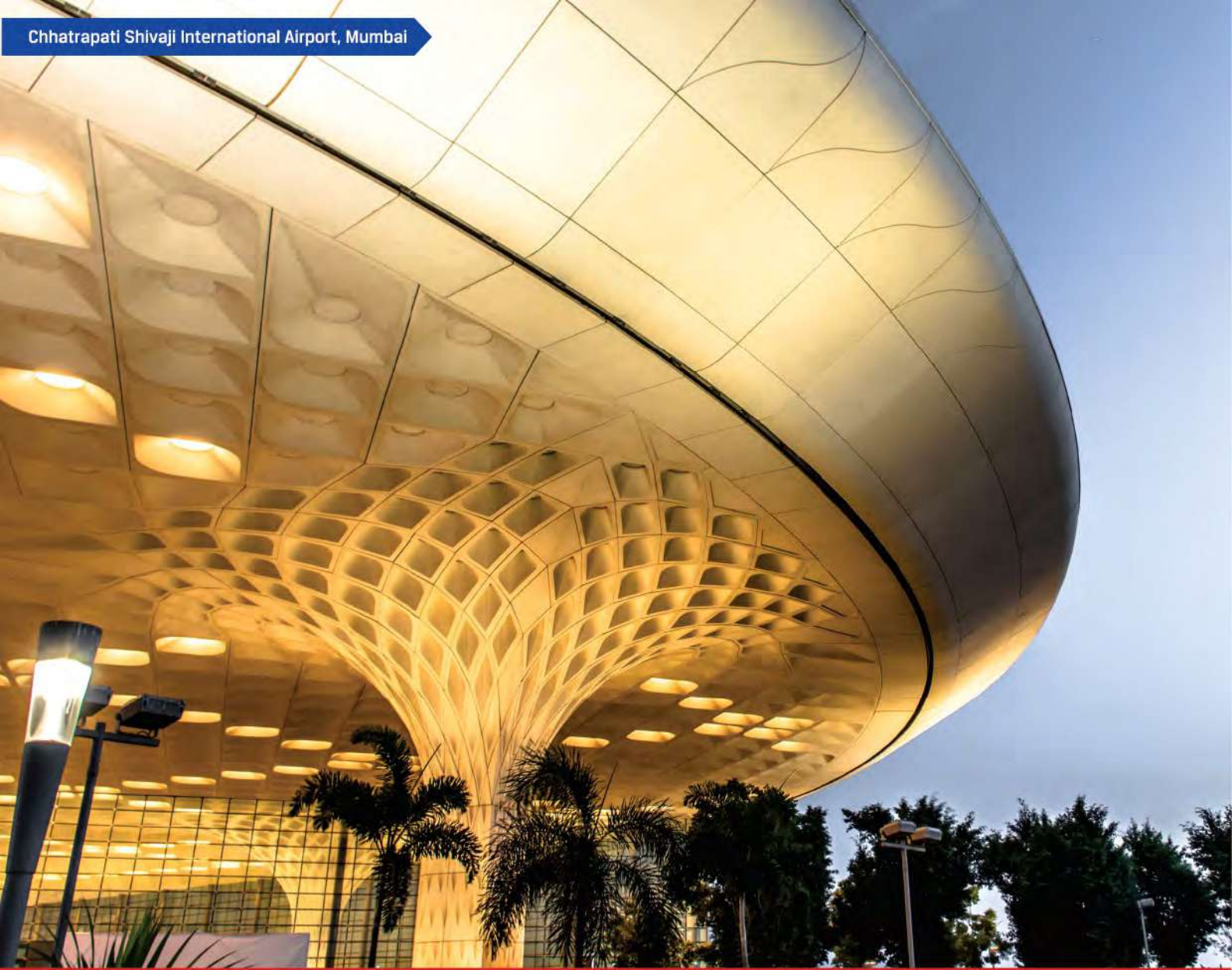


Bandra Worli Sea



V.O.Chidambaranar Port, Tuticorin, Tamil Nadu





## The Ultimate Test

**JSW Neosteel finds wide applications  
for general concrete reinforcements in**

- Residential Buildings
- Airports and Metro Rail
- Roads, Bridges and Flyovers
- Commercial Complexes
- Dams
- Industrial Structures
- Power Plants

DEALER NAME AND ADDRESS

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