

A Strong Partner



# **VELA** Fe 500 Plus **TMT BARS**



IS : 1786



CM/L.No. 6757390

IS : 2830



CM/L.No. 6871893

IS : 2062



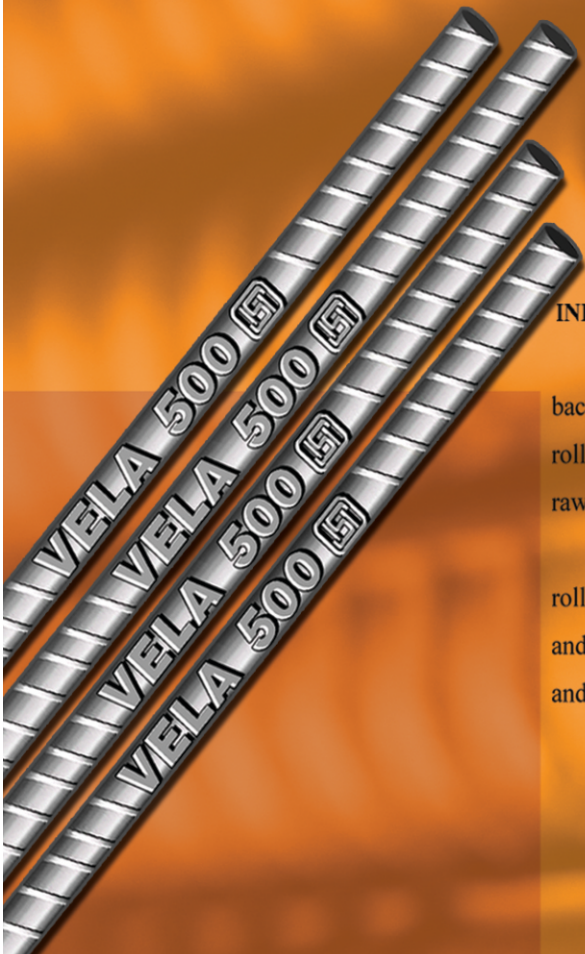
CM/L.No. 3360550



## COMPANY PROFILE

Our Company is an ISO Certified company for pursuing the activities of manufacturing and supply of MS Ingots, TMT Bars and Structural Steels in the Southern part of the Indian Sub-continent. We have vast experience in this line of business and manufacturing all the products with BIS certification. We are a reputed player in this line of trade having a wide and strong network of clients who extend their loyal patronage and place with us their regular and repeated orders.

Our vision is total Customer Satisfaction. That's what driving us to do the best. Right from offering high quality TMT Bars to ensure total customer satisfaction through the provision of value added products delivered on time and to the specification



## INFRASTRUCTURE

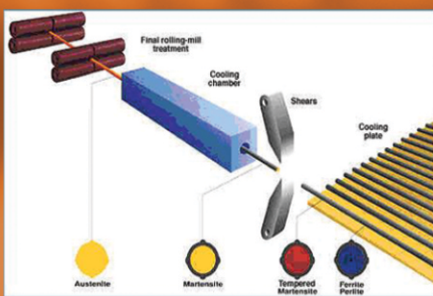
A contemporary and fully integrated plant with advanced German technology forms the backbone of our operations. Our infrastructure houses the sophisticated melting division and rolling division with CNC machine. The processes are closely monitored to ensure that the purest raw materials are used to produce steel of the finest grade.

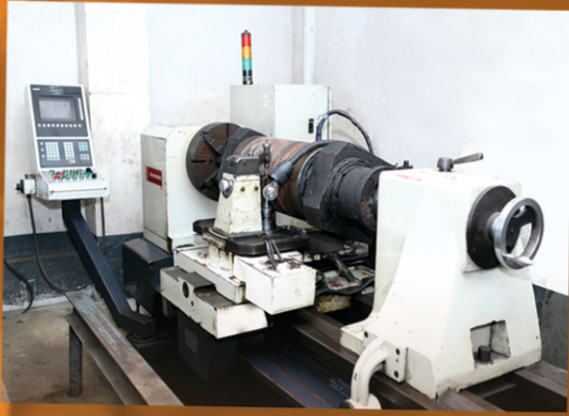
VELA is fully equipped and technically upgraded and having most modern plant capable of rolling superior quality TMT bars. The production facilities are followed up by modern laboratory and quality control system that includes German made Spectrometer, Universal Testing Machine and group of highly qualified and trained technicians.



## About TMT

Thermo Mechanically Treated steel is the new generation steel that has high strengths not obtained in any other process of steel making. Hot rolled steel bars are subjected to PLC-controlled online thermo-mechanical treatment over three successive stages namely quenching, tempering and atmospheric cooling. This treatment converts the outer layer of the bar to hard martensite structure and inner core to fine ductile ferrite-pearlite structure.





### Chemical Composition VELA 500Plus

ELEMENTS	UNITS	BIS STANDARD	Vela 500 Plus
Carbon (Max.)	%	0.30	0.25
Sulphur (Max.)	%	0.06	0.05
Phosphorous (Max.)	%	0.06	0.05
S+P(Max.)	%	0.110	0.100
Manganese	%	0.30 to 0.60	0.40 to 0.60

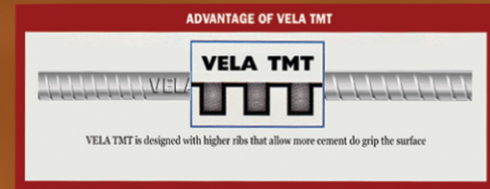


### Physical properties of VELA 500Plus

Properties	Unit	BIS Standard	Vela 500 Plus
Yield Strength (Min.)	N/mm <sup>2</sup>	500	520
Tensile strength (Min.)	N/mm <sup>2</sup>	545	580
Stress ratio (Min.)	-	1.08	1-12
Elongation (Min.)	%	12	14

### Bend Properties of VELA 500Plus

Properties	BIS Standard	Vela 500 Plus
Bend	4φ upto 20mm 5φ over 20mm	4φ upto 20mm 5φ over 20mm
Re - Bend	5φ upto 10mm 7φ over 10mm	5φ upto 10mm 7φ over 10mm



SRI VELA STEELERS PRIVATE LIMITED		BIS Standard		Vela 500 Plus	
Grade	Fe 500	Grade	Fe 500	Grade	Fe 500
Chemical Composition	Fe 500	Chemical Composition	Fe 500	Chemical Composition	Fe 500
Element	Value	Element	Value	Element	Value
C	0.25	C	0.25	C	0.25
Mn	0.40	Mn	0.40	Mn	0.40
P	0.05	P	0.05	P	0.05
S	0.05	S	0.05	S	0.05
Si	0.05	Si	0.05	Si	0.05
Al	0.05	Al	0.05	Al	0.05
N	0.01	N	0.01	N	0.01
O	0.01	O	0.01	O	0.01
Fe	99.75	Fe	99.75	Fe	99.75

### Savings in weight of VELA 500Plus

Size mm	BIS Standard kg/mtr	Vela 500 Plus kg/mtr	Vela 500 Plus Bundle kg	No. of bars per bundle
08	0.395	0.367 to 0.423	49.7 to 53.7	11
10	0.617	0.574 to 0.660	49.5 to 52.1	7
12	0.888	0.844 to 0.932	51.9 to 54.3	5
16	1.579	1.500 to 1.658	54.9 to 57.8	3
20	2.467	2.393 to 2.541	58.4 to 60.5	2
25	3.855	3.740 to 3.960	45.7 to 47.0	1
28	4.830	4.690 to 4.970	57.3 to 59.8	1
32	6.313	6.120 to 6.490	74.6 to 78.0	1



## QUALITY

- ✓ Strict adherence to BIS standards in sampling and testing procedures.
- ✓ BIS certification for Raw material IS2830, TMT bars IS1786, Structural steels IS2062.
- ✓ ISO 9001:2008 certification for admirable quality management.
- ✓ Ensuring systematic working procedure.

## FEATURES

- ✓ CRS (Corrosion Resistant steel) to impart intrinsically improved corrosion resistance properties for longevity of the building structure.
- ✓ Fire resistant which withstands temperature upto 500 degree Celsius.
- ✓ Earthquake resistance resulted due to higher ductility makes **Vela 500 Plus** bars most suitable for earth quake prone areas.
- ✓ Excellent weldability permits no reduction in strength at weld joints.

## ADVANTAGES / WHY VELA

- ✓ CNC machine made uniform rib pattern ensures superior bonding strength between the bar and the concrete.
- ✓ Cost saving up to 20% due to improved strength and controlled mass.
- ✓ Can be bent and re-bent around very small mandrels.
- ✓ Higher UTS/Yield ratio which enhances elongation.
- ✓ Longer life due to superior pitting resistance.
- ✓ Excellent customer service.
- ✓ Delivery at your convenience.
- ✓ Online and SMS enquiry facility.

Authorised Dealer

To Know more about our Products... do contact us.

**SRI VELA SMELTERS PVT. LTD.,**

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