



MALABAR TMT
STEEL BARS

AN ISO 9001 2008 CERTIFIED COMPANY



**Built-in power,
To withstand
the test of time**

Superior
Capability



MALABAR TMT BEING THE BACKBORN

With power, With care

TMT, is short for 'Thermo Mechanically Treated,' is a process involving extraction of the metal from the ore, heating, quenching and finally cooling it to make high strength, reinforcement steel. Finally, we get metal bars with a harder outer surface and softer inner core.

TMT steel bars are central to construction projects thanks to its strength, fire-resistance, weldability and superior bonding property. Buyers ensure that they get it from a reputed manufacturer, guaranteeing high standards of production. That's how MALABAR TMT becomes their top choice for decades.

KARUTHODE ; KARUTHALODE

Strength is all important to TMT bars, helping them withstand tough conditions. It gives each buyer a sense of safety and protection. Every bond goes through hard times. So does a construction. But we assure bonds that are strong from the inside and resist forces from the outside, justifying our tagline Karuthode, Karuthalode, meaning '*With power, With care*'.

AWARDS

The Government of Kerala has bestowed upon us award for the best safety in 2009, 2010 and 2011 consecutively as a testimony to the superior safety standards we follow. A prominent news channel in the State has also chosen us for the award for manufacturer of superior quality TMT bars in 2016.

Genuine
Strength



DECADES OF EXCELLENCE

With power, With care

Founded in 1993 at Pattambi in Palakkad district of Kerala, South Malabar Steels and Alloys (P) Ltd is a renowned manufacturer of ISI certified steel bars. Marking decades of excellence, the company's flagship brand--Malabar TMT-- has grown to become one of the leading reinforced steel bars in South India. Our products are made as per the guidelines, specifications and standards recommended by the Bureau of Indian Standards (BIS) and Malabar TMT 500D is made by strictly following their directions. Each procedure is being supervised and analysed to confirm quality. And the coveted ISI mark stand testimony to it. An exclusive range of products including steel bars, MS angles, MS flats, MS rounds and MS squares of superior quality are manufactured from our plant.



EXCELLENT INFRASTRUCTURE

With power, With care

We use the best available technology for production. After the initial stage of computerized high standard power furnace, the raw material moves into a well-equipped melting plant consisting of ten ton induction furnaces to reach the final stage of fully automatic rolling machine. Each product is checked and filtered at every stage to ensure 100% quality. Superior quality is the reason why we are among the most sought-after TMT brands in South India. Keeping this in mind, we always upgrade our infrastructure and improve our quality standards from time to time.



BEST-GRADE PRODUCTION

With power, With care

As veteran steel manufacturers, our quality control division consists of a range of superior precision testing equipments. We carry out a complete analysis of various parameters of the raw material as well as the finished products to ensure the highest levels of quality. Our metallurgical wings make sure that the MS Ingot (IS 28302008) produced, for the production of QST bars of Malabar TMT, are of special grade C20A, in which a sharp accuracy of chemical combination is required. We produce high-quality Quenched and Self Tempered (QST) TMT bars with superior properties which are confirmed in our physical lab at frequent intervals.



Advanced Production



FIRST EVER CCM BY CONCAST INDIA

We are the first to get a Continuous Casting Machine (CCM) installed by Concast India, the pioneers in continuous casting technology, in the entire State. Before the entry of CC Machines, the molten metal was poured into stationary moulds. But with the new process, the metal is solidified into form like billets. The superior technology has given us a solid edge over our competitors.



PRODUCER OF OWN BILLETS

Far better than many others, who either import billets from the neighbouring states or use steel ingots compromising on quality, we manufacture our own billets at our plant. This again is a major step towards emerging to be a cut above the rest ensuring matchless quality to our products.



Superior Quality

TMT, IS1786, License No: CM/L/3577474

Fe 415

Fe
415D

Fe 500

Fe
500D

MS Ingot, IS 2830 License No. CM/L/3577373 ' C20A Grade



CM/L3577474



CM/L3577373



ISO 9001 : 2008 REGISTERED

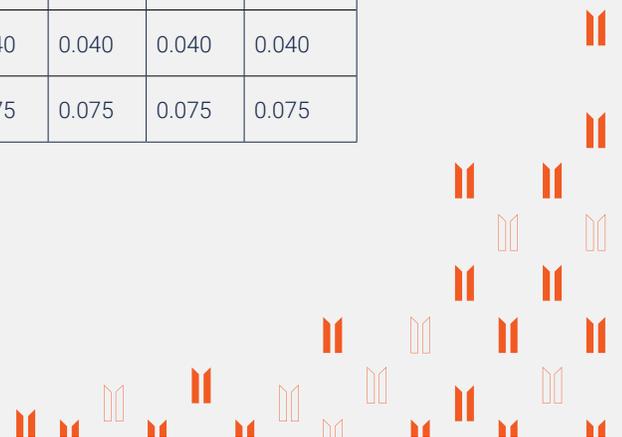
One of the few Indian private sector companies with two ISI Certification for MS ingots and TMT Steel bars

Chemical combination of MS Billets IS 2830:2012

Element %	Indian Standards	Malabar Standard
Carbon	0.17 - 0.23	0.17 - 0.23
Sulphur	0.040	0.040 max
Phosphorus	0.040	0.040 max
Manganese	0.50 - 0.60	0.60 max

Chemical combination of TMT Bars IS 1786:2008

Element % max	Indian Standards				Malabar Standard			
	Fe 415	Fe 415D	Fe 500	Fe 500D	Fe 415	Fe 415D	Fe 500	Fe 500D
Carbon	0.30	0.25	0.30	0.25	0.23	0.23	0.23	0.23
Sulphur	0.060	0.045	0.055	0.040	0.040	0.040	0.040	0.040
Phosphorus	0.060	0.045	0.055	0.040	0.040	0.040	0.040	0.040
Sulphur + Phosphorus	0.11	0.085	0.105	0.075	0.075	0.075	0.075	0.075



Mechanical properties of MALABAR TMT

Property	Indian Standards				Malabar Standard			
	Fe 415	Fe 415D	Fe 500	Fe 500D	Fe 415	Fe 415D	Fe 500	Fe 500D
Yield Strength N/mm ² , min	415	415	500	500	450	450	530	530
Ultimate Strength N/mm ² , min	485	500	545	565	540	540	620	620
Elongation Percent, min	14.5	18	12	16	14.5-16.5	18-21	12-15	16-19
UTS/ YS ration	1.10	1.12	1.08	1.10	1.10	1.12	1.08	1.10

MALABAR TMT, A First choice in Construction

The results and experience of the following properties in the construction field make MALABAR TMT superior to other ordinary TMT bars.

Property	Malabar TMT	Reason for property
Strength	High Grades	Due to the DST Technology and expertise wing
Bonding with concrete	Excellent	Due to high MPA (Mean Projected Area) and confirmed by Pull-out Test (IS 2770)
Ductility And Fatigue Resistance	High and good for earth-quake prone areas	Superior chemistry
Weldability	Good, gives more strength	Due to low Carbon Equivalency (CE)
Corrosion Resistance	Excellent	Due to the Superior chemistry and strong Marten site
Elongation	High	The presence of real Soft core (Ferrite-Pearlite) portion
Ribs	Sharp and Uniform all over the TMT	Done by most modern computerized CNC machine of Sparkonix machine
Bendability	Easily Bendable	Due to the presence of real Soft core (Ferrite-Pearlite)

Highlights

Product Ranges

MS Flats (mm)	MS Rounds (mm)	MS Square (mm)	MS Angles
50/6	06	10	20/3
40/6	07	12	20/6
40/5	10	16	25/3
40/3	12	20	25/6
32/6	16	25	32/3
32/5	20		32/6
32/3	25		40/3
25/6			40/6
25/5			50/6
25/3			65/6
20/6			
20/5			
20/4			
20/3			
12/3			
12/6			

MALABAR TMT QST

Steel bars are available in the following sizes and weights

Size (mm)	ISI weight/ Meter	MALABAR TMT QST Weight
8	0.367 - 0.423	0.370 - 0.410
10	0.574 - 0.660	0.586 - 0.640
12	0.844 - 0.932	0.850 - 0.900
16	1.501 - 1.659	1.520 - 1.600
20	2.396 - 2.544	2.420 - 2.500
25	3.735 - 3.965	3.750 - 3.900



MALABAR TMT
STEEL BARS

is successful keeping up your expectations because of the expertise and experience of our team mates. Our vision to become the most trusted manufacturer is getting fulfilled with every customer's support and growing dealership network. We continue growing to be the best and hope to give the best as always.



MALABAR TMT
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Looking forward to scale heights with you
With power, With care



MALABAR TMT
STEEL BARS

SOUTH MALABAR STEELS & ALLOYS (P) LTD

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