



build
We make the future
safest TMT Bars & Structures
of India



PARAS STEEL
STEEL OF INDIA



ISO:9001



ISO:14001



OHSAS:18001



In good times, anything sells.

In bad times, **nothing** sells but quality.



Trusted by the best

Over the years, Paras has developed an enviable roster of customers in India, as well as a growing export market in Nepal, Bhutan, etc. We are enlisted with numerous Government departments and multinational companies, who recognize the quality of our steel. Noteworthy approvals include Power Grid Corporation for MS angles and Military Engineering Services (MES) for TMT and Structural sections. Many prestigious buildings have been made with our steel.

Customers

► Engineering

BSNL ITI PWD Tata Rayerson Aditya Birla Group Descon Electrical Manufacturing(EMC) Areva T&D Aster Teleservices ICOMM Teleservices Emami
BMW Industries Skipper Steel Bushan Steel L&T.

► International

Steel Wood LK INT PK INT Drur Fenu

► Infrastructure

Simplex Infrastructure Bengal Unitech Silver Spring

► Enlistments

PGCIL Military Engineering Services (MES) DGS&D Assam PWD Andaman & Nicobar PWD WBSEB Damodar Valley Corporation(DVC) Indian Railways
L & T Shapoorji Pallonji Hutch



From the MD's desk

The 21st century has marked good times for the Indian steel industry. Both domestic and international demand has been robust. For producers like Paras, the boom in the infrastructure sector has fuelled demand from the construction industry. Almost all steel companies have done well and we are no exception.

Good times, however, do not last forever. In our quarter century of industry experience we have seen the ferrous cycle rise, fall and rise again. We have learnt that what survives is quality -- and the trust of customers.

It is this trust that is our most precious asset. We seek to sustain it with technology, engineering skills and ethical behaviour.

In the last few years we have consistently invested in building a modern plant and implementing quality systems and processes. Today we use the best steel as raw material, process it with the best equipment, and follow best practices to assure quality products.

I hope you will give us the opportunity to win your trust.



Steel builds infrastructure

Infrastructure builds the **N**ation.

Product Range ▶



MS-H BEAM

SIZE	FLANG THICKNESS	WEB	R1	R2	Standered Wet/Mtr
HB 150x 150	9.0	11.8	8.0	4.0	34.600
SC 152x 152	11.9	7.9	11.7	3.0	37.100
WB 203x 152	16.5	8.9	15.5	7.6	52.000

MS-BEAM

SIZE	FLANG THICKNESS	WEB	R1	R2	Standered Wet/Mtr
125 x 70	8.0	5.0	9.0	4.5	13.350
150 x 75	8.0	5.0	9.0	4.5	15.000
175 x 85	9.0	5.8	10.0	5.0	19.600
200 x 100	10.0	5.7	11.0	5.5	24.200
250 x 125	12.5	6.9	13.0	6.5	37.300
300 x 140	13.1	7.7	14.0	7.0	46.000
350 x 140	14.2	8.1	14.0	7.0	52.400



TMT BARS

Size (mm)	Standard Weight Kg/m
8	0.395
10	0.617
12	0.888
16	1.580
20	2.470
25	3.850
28	4.830
32	6.310

MS-CHANNEL

SIZE	FLANG THICKNESS	WEB	R1	R2	Standered Wet/Mtr
75 x 40	7.5	4.8	8.5	2.4	07.140
100 x 50	7.7	5.0	9.0	2.4	09.560
125 x 65	8.2	5.3	9.5	2.4	13.100
150 x 75	9.0	5.7	10.0	2.4	16.800
200 x 75	11.4	6.2	11.0	3.2	22.300
250 x 82	14.1	9.0	12.0	3.2	34.200
300 x 90	13.6	7.8	13.0	3.2	36.300
400 x 100	15.3	8.8	15.0	4.8	50.100

The making of quality

Located in Durgapur*, the industrial hub of West Bengal, Paras Steels is the first automatic plant in Eastern India to produce Thermex TMT bars as well as the full range of structural steels.

It is the only plant in the region to be **certified ISO 9001:2000 for quality processes, ISO 14001:2004 for environment management, and OHSAS 18001 for health and safety standards. The relevant BIS certifications, such as IS 1786:1985 and IS 2062:2006 have also been obtained.**

The modern plant incorporates a complete Thermex treatment system and a structural mill. The complete range of requirements can therefore be met under one roof.

Durgapur being one of India's premier steel hubs, the billets are locally procured from Steel Authority of India . Proximity to other raw materials and markets means that Paras products are competitively priced despite their superior quality.



- ▶ **STRENGTH**
PARAS Steels are available in PARAS TMT Fe: 415/ 500, PARAS STRUCTURAL Fe: 410/ 440/ 490/ 540 grades which are much stronger than ordinary steel and give a 20 % stronger concrete structure with a same quantity Of steel.
- ▶ **THERMAL STABILITY**
PARAS Steels have high thermal stability unlike other ordinary steel. It can be used even at high temperature till 600^oC without any drop in strength.
- ▶ **BEND PROPERTIES**
PARAS Steels possesses excellent bendability due to the unique feature of uniform elongation.
- ▶ **WELD PROPERTIES**
PARAS Steels have very good weldability. They do not suffer from loss of strength at the weld joints.
- ▶ **CORROSION RESISTANCE**
PARAS Steels show virtually no rusting even after a long time due to the absence of any residual stress.
- ▶ **EARTHQUAKE PROOF**
PARAS Steels can be used in Earthquake zones as its guarantee better elongation.
- ▶ **COASTAL STEEL**
PARAS Steels are rolled from IS 2830 Billets all procured from SAIL to produce CRS Steels, which provides better stability, and function in coastal region.
- ▶ **FATIGUE RESISTANCE**
PARAS Steels have high fatigue resistance on dynamic loading on account of the high strength of the surface layer.
- ▶ **FIRE RESISTANCE**
PARAS Steels have higher thermal stability which making it safer in Fire Hazards.
- ▶ **QUALITY ASSURANCE**
PARAS Steels, uses the in house state of the art laboratory with modern and advanced machineries such as SPECTROMAx, UPM, Impact.
- ▶ **SAVINGS**
PARAS Steels, extra strength means more savings too. It saves steel upto 20%

Applications

Segments

Typical Applications

Construction	Industrial, Hospital, Institutional Buildings, Exhibition Halls, Stadiums, Railway and Bus stations, offshore structures
Agriculture & Rural areas	Machinery, Storage tanks, Grain bins, Bullock Carts, Meeting Halls
Infrastructures	Bridges, Flyovers, Foot Bridges, Culverts and RCC Structures, National Highways, Roads, Airport.
Oil, Gas & Power	Wells, Platforms, Jetty, Nuclear/Thermal/Hydro Power, Wind Mills and items related to power
Transport	Railways, Metro Railways, Sky Bus, Buses, Trucks, Luxury Coaches, Cars
Electrical & Electronics	Transformer core, Motors, Transmission Line Towers, HT TLT, Re Works, Sub stations, Power house, TL Hardwares.



Product Range ▶▶

TMT Bars	8 mm to 32 mm
Angles	35 mm to 200 mm
Channels	75 mm to 400 mm
Beams/Joists	100 mm to 350 mm
H-Beams	150 mm to 203 mm
Rounds	Up to 160 mm
Flats/patta	Up to 400 mm

Certifications

ISO	9001
ISO	14001
OHSAS	18001
ISI	1786:1985
ISI	2062:2006
HSD Bars	Thermex <small>(The German Technology)</small>





Paras TMT Bars

Paras TMT is the latest generation of ribbed, high strength, thermomechanically treated reinforcement bars that are popular the world over. The company has been the first in Eastern India to introduce the state-of-art Thermex process under licence from HSE, Germany to produce these bars in grades designated as Paras TMT Fe 415 and Paras TMT Fe 500 with different mechanical properties.

The Thermex TMT process features rapid cooling of heated bars' periphery. This transforms the peripheral structure to martensite, which is then annealed through the heat available at the core. The resultant bar structure is of tempered martensite on the outer surface and of fine-grained ferrite-pearlite at the core, imparting high strength, toughness and ductility.

Thermo-mechanically treated (TMT) reinforcement bars are today essential for any serious construction. For load bearing applications they have completely replaced CTD and plain bars on account of their remarkable weight to strength ratio.





◀ All blooms and billets are procured from SAIL
Laboratory testing of samples ▶



▶ Paras Structural

Structural steel is steel construction materials, a profile, formed with a specific shape or cross section and certain standards of chemical composition and strength. Structural steel shape, size, composition, strength, storage, etc, is regulated in most industrialized countries. Structural Steels shape structure on mathematical geometry and solely depend on $\angle 90^\circ$.

The structural mill produces a variety of hot rolled products such as angles, channels and beams and joists, as well as flats and rounds of various dimensions. The versatile range includes a cross section of special contours for bridges, buildings, transmission towers, industrial structures as well as for automobile and shipping industries. An online straightening machine ensures accuracy of angles, which is particularly important for transmission towers.

The strength and quality consistency make Paras structural products a favourite among leading engineering and construction companies. All raw materials are sourced from SAIL. Each batch is subjected to stringent tests. Samples from every cast are sent for chemical analysis, tensile and bend tests. Where required, impact and spectromax testing are also undertaken. Finally, piece-by-piece inspection ensures that only flawless pieces are dispatched. When it's Paras, you are sure.





■ **Registered office**

14C, M. D. Road ,3rd. Floor, Kolkata, West Bengal-07

■ **Factory**

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■ **Corporate Office**

37, Shakesphere Sarani,3rd Floor,Kolkata-700 017 ,West Bengal

■ **Branch Office**

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