



SARTHAK GROUP

Corporate Office - Opp. CSEB Sub-Station,
Urla Sarora Road, Urla Industrial Area, Raipur (C.G.) 493221

Unit 1: SARTHAK ISPAT PRIVATE LIMITED
Opp. CSEB Sub-Station, Urla Sarora Road,
Urla Industrial Area, Raipur (C.G.) 493221

Unit 2: JORAWAR ENGG & FOUNDRY FORGE PVT. LTD.
Plot No. 1,2 & 3, CSIDC Growth Centre
Phase II, Siltara, Raipur(C.G.) 493221

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Embassy

SARTHAK TMT

आपके सपनों को करें सार्थक



Mr. Anil Kumble



“ ABOUT US

Established in 2011 as a private sector steel company with its first manufacturing Unit named SARTHAK ISPAT PVT. LTD. based at URLA industrial area in RAIPUR as a heavy and medium structural re-rolling mill for manufacturing of Angels, Channels, RSJ Poles and Beams. Guided by its innovative approach and strong financial foundation backed with energetic and experienced team has all contributed to the steady growth of the company through years.

Operating for over six years, SARTHAK ISPAT has emerged as a large, growing and competitive structural steel manufacturer by delivering quality material through innovation, excellence and dedication. The company's aim for a fast-paced growth and great emphasis on integration has introduced a second Unit named JORAWAR ENGINEERING FOUNDRY & FORGE PVT. LTD. based at Siltara Industrial area in Raipur. Company has set up its production facilities for integrated Steel production.

Persistent execution of forward integration concept has enabled SARTHAK GROUP to manufacture Structural Steel, TMT Bars, Wire Rods and Billets by possessing State of the art Technologies with deep-rooted knowledge. All the production units are equipped with latest machineries ensuring maximum Efficiency and Quality complying with BIS specifications.

QUALITY ”

“Quality is our Motto”. The quality of Products has been appreciated by one and all. We have fully equipped Laboratory for chemical and Mechanical testing of the product in both the Units. We are committed to develop, implement and maintain an effective quality management system in compliance with **ISO: 9001, 14001 & OHSAS 18001** international standard and supply products as per customer requirements in order to achieve ultimate & complete customer satisfaction.

Description	Sarthak Ispat Pvt. Ltd.	Jorawar Engg. & Forge Pvt. Ltd.	
Total Area	18 Acre	10 Acre	
Buildup Area	9 Acre	4.5 Acre	
Power Connected	3300 KVA	15000 KVA	
Production Capacity (Annual)	Structural Steel 2,00,000 MT	M.S Billet TMT Bars Wire Rod	2,50,000 MT 1,80,000 MT 1,80,000 MT



“ OUR RANGE OF PRODUCT

- M.S Billet
- TMT Rebars
- Wire Rod
- Structural Steel
 - MS Beam
 - MS Angle
 - MS Channel
 - RS Joist/ H-Beam

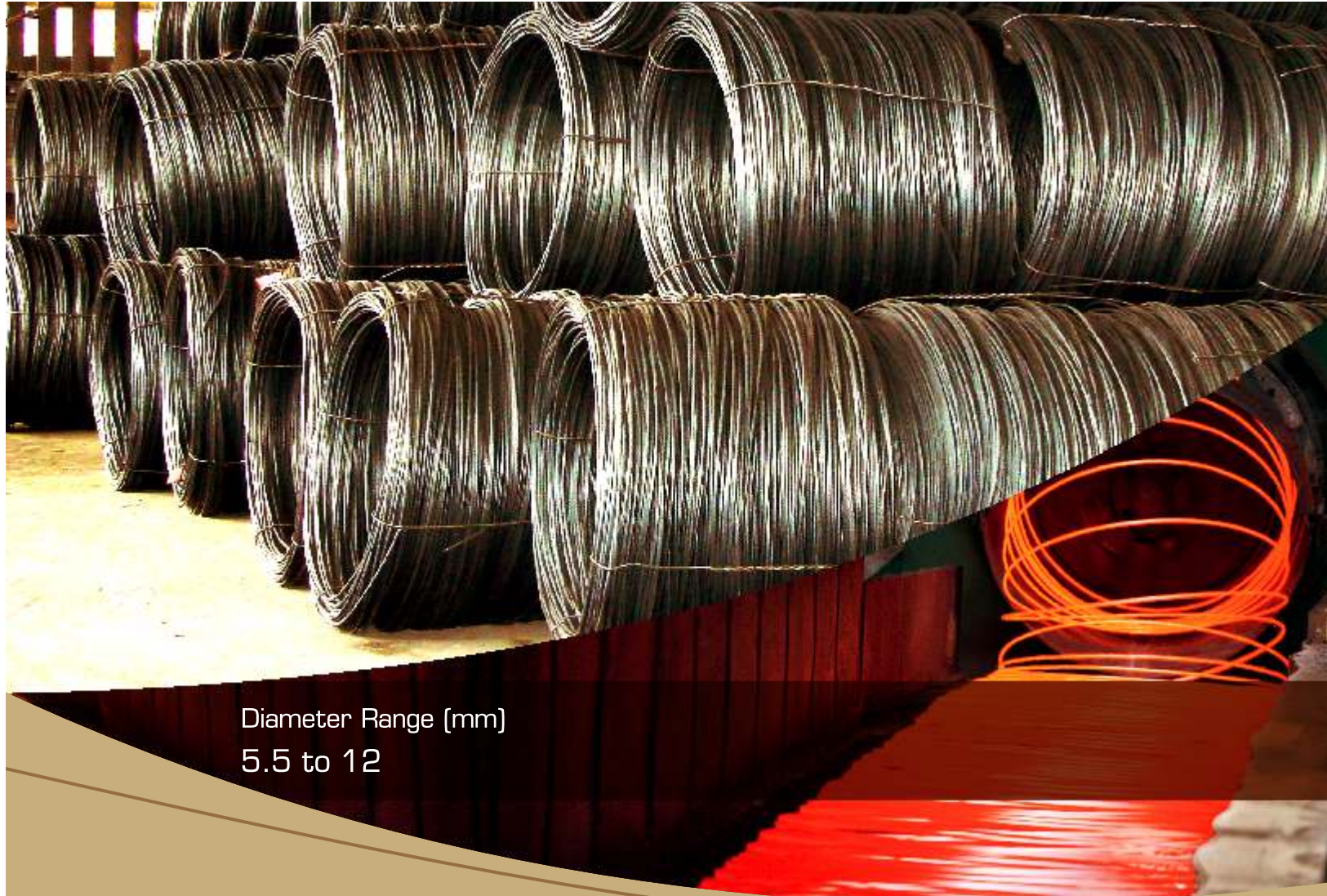
MS BILLETS ”

Sarthak Group Manufactures a wide range of continuously casted Billets in its unit at Raipur Plant. With the provision of state-of-art technology, the company strives to maintain international quality standards ensuring smooth and flawless casting of billets. The end products come with an excellent surface finish and corrosion resistant property.

M.S. Billets are used for rolling of TMT Re-Bars of Fe415, Fe500 and Fe 500D Grade and various other structural steel products.

The following are the sizes of MS Billets available:

- | | | | |
|-----------|------------------|-----------|------------------|
| 1. | 100 X 100 | 3. | 125 X 125 |
| 2. | 110 X 110 | 4. | 150 X 150 |



Diameter Range (mm)
5.5 to 12



TMT REBARS

WIRE ROD

Wire rod is a long steel semi finished product manufactured by hot rolling billets on continuous rolling mill. It has a round cross-section and is wound up in coil form.

Unlike other steel products, wire rod exhibits a significant commodity range variety; based on its chemical composition the following families of products and their differing corresponding uses can be identified:

- ✓ Mild steel rod, used to manufacture welded mesh and drawn rods (black, annealed & coated)
- ✓ Wire rod with medium and high carbon content, used to manufacture drawn.
- ✓ Welding rod
- ✓ Special steel rods used in hot and cold die-pressing, drawing and extrusion.

Sarthak TMT Rebars come with a series of inherent advantages like consistent quality along with uniform grades, dimensions and tolerances. It also comes with superior stability, high strength-to-weight ratios, properties for higher durability and easy workability. The Company has received ISO – 9001, 14001 and OHSAS 18001 certifications as a testament to the fine quality of its products. SARTHAK TMT is made by most renowned GERMAN Technology with THERMEX license, sizes from 8mm-40mm providing grades Fe 415, Fe 415D, Fe 500, Fe 500D, Fe 550, Fe 550D & Fe 600.

The Re-Bars are classified as following:

SPECIFICATION OF TMT BARS WEIGHTS (Kg/Mtr)					
SIZE	IS-1786:2008			Sarthak TMT	
	Std	Min	Max	Min	Max
8mm	0.395	0.367	0.423	0.370	0.385
10mm	0.617	0.574	0.660	0.575	0.585
12mm	0.888	0.844	0.932	0.845	0.860
16mm	1.580	1.500	1.659	1.510	1.580
20mm	2.470	2.395	2.544	2.400	2.450
25mm	3.850	3.730	3.965	3.730	3.850
28mm	4.830	4.685	4.975	4.700	4.830
32mm	6.310	6.121	6.499	6.190	6.310

SPECIFICATION OF TMT BARS MECHANICAL PROPERTIES						
Parameter	IS-1786:2008			IS-1786:2008		
	Fe-415	Fe-500	Fe-500D	Fe-415	Fe-500	Fe-500D
Yield Stress (N/mm ²)	415	500	500	430-490	520-560	520-560
Ultimate Tensile Strength (N/mm ²)	485	545	565	500-560	600-680	600-680
Elongation (%)	14.5	12	16	20-25	18-24	18-24
Total Elongation @ Max Force (%)	-	-	5	-	-	8to10
Ration (UTS/YS)	1.16	1.09	1.13	1.15-1.25	1.13-1.22	1.14-1.25



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&



GERMANY



FEATURES:

- Strength**
 Sarthak TMT Bars are available in Fe: 415 /500 /550/ 600 & Fe 415D, Fe 500D, Fe 550D grade which are much stronger than yesteryears' conventional Bars and give up to 20% stronger concrete structure with same quantity of steel.
- Elongation**
 More strength with higher elongation is one of the unique features of Sarthak TMT Bars. It makes a concrete structure not only sound but safe also from earthquake related natural calamities.
- Bend Properties**
 Due to unique feature of greater elasticity in Sarthak TMT Bars, it provides a very good bending/ re-bending option during application in construction.
- Corrosion Resistant**
 Sarthak TMT Bars provides very good corrosion resistance due to its controlled chemistry of raw
- Fatigue Resistant**
 The unique feature of Sarthak TMT Bar is its high Fatigue Resistance on dynamic loading on account of the high strength of the surface layer.
- Weld-ability**
 Sarthak TMT Bars with low carbon equivalent content can be used for butt/ lap and other weld joints without reduction in strength at the weld joints.
- Technology**
 Sarthak TMT Bars are backed by latest on THERMEX Technology, which makes it highly superior product in construction industry.

material inputs, which provides a longer life concrete structure.

THERMEX PROCESS



STRUCTURES STEEL MS BEAM

We offer the finest quality MS Beams which is the most sought after sections by the structural engineers, architects and construction.

SECTION	STANDARD	MINIMUM	MAXIMUM	FLANGE	WEB
	WT/MTR	WT 2.5 %	WT 2.5 %	THICK	THICK
MB 125X70	13.300	12.967	13.632	8.0	5.0
MB 150X75	15.000	14.625	15.375	8.0	5.0
MB 175X85	19.600	19.110	20.090	9.0	5.8
MB 200X100	24.200	23.595	24.805	10.0	5.7
MB 250X125	37.300	36.367	38.232	12.5	6.9
MB 300X140	46.000	44.850	47.150	13.5	7.7
MB 400X140	61.500	59.962	63.037	16.0	8.9

MS ANGLE

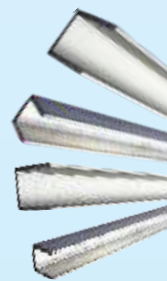
We offer the finest quality MS Angles, which are extensively used in fabrication industry. The dimension is determined by the length and the unit measurement. We trust quality and productivity.

Size In MMxMM	Kg/Mtr			
	5	6	8	10
Thickness 50X50X	3.8	4.5		
Thickness 65X65X	4.9	5.8	7.7	9.4
Thickness 75X75X	5.7	6.8	8.9	11
Thickness 90X90X	8.2	10.8	13.4	15.8
Thickness 100X100X	9.2	12.8	14.9	17.7
Thickness 110X110X	13.4	16.6	19.7	25.7
Thickness 130X130X	15.9	19.7	23.5	30.7



“ MS CHANNELS:

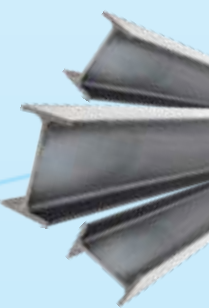
We offer the finest quality MS Channels, which are extensively used in fabrication industry. A channel is a right angle "C" section.



SECTION	STANDARD WT/MTR	MINIMUM WT 2.5 %	MAXIMUM WT 2.5 %	FLANGE THICK	WEB THICK
MC 75X40	7.14	6.961	7.318	7.5	4.8
MC 100X50	9.56	9.321	9.799	7.7	5
MC 125X65	13.1	12.772	13.427	8.2	5.3
MC 150X75	16.8	16.38	17.22	9	5.7
MC 200X75	22.3	21.742	22.857	11.4	6.2
MC 250X82	34.2	33.345	35.055	14.1	9
MC 300X90	36.3	35.392	37.207	13.6	7.8
MC 400X100	50.1	48.847	51.352	15.3	8.8

“ RS JOIST / HB / WB

We are a leading company engaged in offering RSJ poles as per the specific requirements of our quality conscious clients. Available at market leading prices, our expertise lies in offering these RSJ Poles in different weights, lengths, as well as other specifications so as to suit demands of government and industrial sectors.



SECTION	STANDARD WT/MTR	MINIMUM WT 2.5 %	MAXIMUM WT 2.5 %	FLANGE THICK	WEB THICK
HB 100X116	2.3	22.425	23.575		
HB 150X150	27.1	26.422	27.777	9	5.4
HB 150X150	30.6	29.835	31.365	9	8.4
HB 150X150	34.6	33.735	35.465	9	11.8
HB 152X152	37.1	36.172	38.027	11.9	7.9
HB 200X200	37.3	36.367	38.232	9	6.1
HB 200X200	40	39	41	9	7.8
WB 203X152	52	50.7	53.3	16.5	8.9
WB 203X203	52	50.44	53.56	12.5	7.9

Wind Mill



RsJ Poles



Electricity



Railway



Solar Power



CHEMICAL PROPERTIES:

PARAMETER	IS: 2062 Grade "A"
CARBON	0.23 % [Max.]
MANGANESE	1.5 % [Max.]
SULPHUR	0.050 % [Max.]
PHOSPHORUS	0.050 % [Max.]
CARBON EQUIVALENT	0.042 % [Max.]

MECHANICAL PROPERTIES

PARAMETER	IS: 2062 Grade "A"
TENSILE STRENGTH	0.23 % [Max.]
YIELD STRESS	1.5 % [Max.]
PERCENTAGE OF ELONGATION	0.045 % [Max.]
BEND	0.045 % [Max.]

FEATURES: Grade: The sections are rolled strictly in accordance with IS 2062:2006 & IS 808:1989.

Sectional Weight Tolerance: The products are rolled according to IS 808:1989.

Dimensional Tolerance: The Structures are rolled in dimension as per IS 1852:1985.

Weld-ability: The Structures gets a superior weld-ability property due to its low carbon equivalent.