

DIIL
TMT BARS
STRONG & RELIABLE

BUILDING ON TRUST

Since our establishment, we have been on a journey to achieve excellence through strength and permanence, of structures we help build. With the quality & service already winning accolades we are sure that after wooing the southern states we will systematically be growing in to the northern states and win the trust of entire nation. Dhanlaxmi Industries Pvt. Ltd. and Jeevaka Industries Pvt. Ltd., with its expertise in steel, offer you nothing but the finest.

DIIL Range of Products: Sizes-8mm to 32mm (550 Grade)

Jeevaka Range of Products: Angle, Channel & Beams

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DHANALAXMI IRON INDUSTRIES PVT LTD

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A quality product of **DIIL**

Jeevaka
Industries
Pvt. Ltd.
STRUCTURAL STEEL

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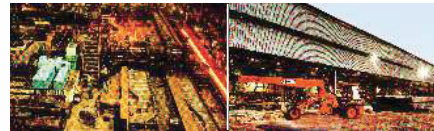
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STRUCTURAL STEEL



ABOUT US ▶

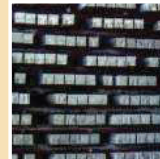
Dhanlaxmi Iron Industries Limited (DIIL), an ISO 9001:2000 Certified Company founded in 1983 is an epitome of wholeness of process. Having state-of-the-art manufacturing facilities, producing world class steel made from the finest grade of Sponge Iron and MS Billets, the entire manufacturing process is carried out in fully owned and automated in house manufacturing facilities.

Jeevaka Industries Pvt. Ltd. (JIPL), a division of the DIIL Group, provides specialized products in structural steel to cater to the pre-engineered building industry. DIIL's adherence to quality begins with the right raw materials, which are manufactured at JIPL. To ensure that the quality standards are maintained through, the process is monitored at every stage of the production. So when you choose DIIL, you are assured of a product that gives your constructions decades of stability and solid strength.



MANUFACTURING FACILITIES

BILLETS



Our modern steel billet plant consists of an induction furnace, and a continuous casting machine. We produce standard 40 feet billets in various special steel grades as per IS, BIS, NSIC and MES Standards, while controlling quality through continuous testing and process control.

SPONGE IRON



The fundamental raw materials used for the production of sponge iron are iron ore, non-coking coal and dolomite. Sponge iron is extremely sensitive to raw material characteristics, so our production process includes vigilant examination of the chemical and physical characteristics of raw materials, both individually and in combinations.



TMT BARS

DIIL Thermo Mechanically Treated Steel (DIIL TMT steel) has superior properties such as weldability, strength, ductility and bendability meeting highest quality standards at international level. DIIL's supply chain is wide spread all across India offering Turbo TMT re-bars ranging from 8-32 mm in diameter conforming to Fe-500 and Fe-550 Grades as per IS: 1786-1985 Parameters.



Highlights of Dhanlaxmi-turbo TMT re-bar

- Higher strength
- Higher UTS/YS ratio (elongation)
- Higher fatigue strength
- Higher resistance to heat
- Higher resistance to corrosion
- Excellent weldability
- Excellent ductility





PROPERTIES

Observed running mass/meter of Dhanlaxmi-turbo TMT re-bar

SPECIFIC	BIS RANGE		DIIL TMT RANGE		%	
	Tolerance (Kg/mtr)		Tolerance (Kg/mtr)			
Size in mm	Kg/mtr	(Min)	(Max)	(Min)	(Max)	
8	0.395	0.367 to 0.423	0.370 to 0.407			±7
10	0.617	0.574 to 0.657	0.580 to 0.625			±7
12	0.888	0.844 to 0.932	0.845 to 0.920			±5
16	1.579	1.500 to 1.658	1.516 to 1.625			±3
20	2.467	2.400 to 2.541	2.408 to 2.150			±3
25	3.856	3.470 to 3.971	3.752 to 3.924			±3
32	6.313	6.124 to 6.502	6.200 to 6.480			±3

Chemical properties of Dhanlaxmi-turbo TMT re-bar

CONSTITUENT	PERCENTAGE	DIIL TMT
Carbon (max.%)	0.30	0.25 to 0.30
Manganese (%)	0.5 to 1.2	0.5 to 0.8
Sulphur & Phosphorus	as per IS:1786/85	as per IS: 2000:2015

Physical properties of Dhanlaxmi-turbo TMT re-bar

GRADES	YIELD (Min.Mpa)		UTS (Min.Mpa)		Elongation (min.%)	
	BIS	DIIL TMT	BIS	DIIL TMT	BIS	DIIL TMT
Fe-415	415	450	485	540	14.5	24
Fe-500	500	530	545	630	12.5	18
Fe-550	550	580	585	690	8.0	12

JEEVAKA INDUSTRIES
STRUCTURAL STEEL PRODUCTS



PRODUCT SPECIFICATION/RANGE

- Channel Section (ISMC) : 75x40mm, 100x50mm, 125x65mm, 200x75mm, 250x82mm & 300x90mm.
- Channel Section (ISLC) : 75x40mm, 100x50mm
- Equal Angle Section (ISA) : 45x45mm, 50x50mm, 55x55mm, 60x60mm, 65x65mm, 70x70mm, 75x75mm, 80x80mm, 90x90mm, 100x100mm, 110x110mm, 120x120mm, 130x130mm, 150x150mm, 200x200mm in various thickness
- H - Beams (Columns) : 150x150mm, 152x152mm & 116x100mm
- W- Beams : 203x152mm
- Rounds : 40mm to 152mm
- Squares : 36mm to 150mm
- Flats : 50mm to 300mm
- Grade of material : As per IS 2062:2011, E250 & E350 (Quality - A, B, B0 & C), BSEN 100025
- Size tolerance/weight tolerance : As per IS 1852:1985 (Fourth Revision 2009) or Equivalent

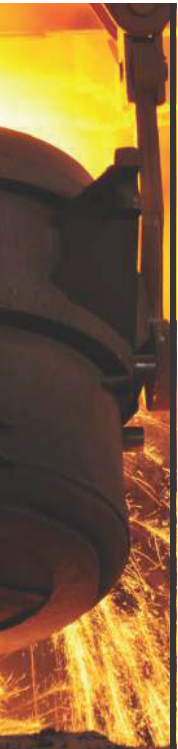
Chemical Composition

Chemical	Symbol	E250	E350
Carbon	C	0.23% Max	0.20% Max.
Manganese	Mn	1.5% Max	1.55% Max.
Silicon	Si	0.40% Max	0.45% Max.
Sulphur	S	0.045% Max	0.045% Max.
Phosphorus	P	0.045% Max	0.045% Max.
Micro Alloying	(Nb+V+Ti)	0.25% Max	0.25% Max.

Physical Properties

Mechanical Properties	E250	E350
Material will be supplied in semi-killed/killed (Si & Al). Condition with limiting. Carbon equivalent (Max.)	0.42	0.49
Yield Strength (Min.)	250 Mpa	350 Mpa
Tensile Strength (Min.)	410 Mpa	490 Mpa
% of Elongation (Min.)	23	22





MS CHANNELS

SECTION DESCRIPTION	DIMENSION (h)x(b)x(tw) mm	SECTION WEIGHT (w) (Kg/Mtrs)	SECTION AREA (a) (cm ²)	CENTER OF GRAVITY (cyy) cm	MOMENT OF INERTIA (cm ⁴)		MOMENT OF SECTION (cm ³)		MOMENT OF SECTION (cm)	
					I _{xx}	I _{yy}	Z _{xx}	Z _{yy}	r _{xx}	r _{yy}
MC 75	75x40x4.8	7.14	9.10	1.32	78.5	12.9	20.9	4.81	2.94	1.19
MC 100	100x50x5.0	9.56	12.2	1.54	192	26.7	33.5	7.71	3.97	1.48
MC 125	125x65x5.3	13.1	16.7	1.95	425	61.1	68.1	13.4	5.05	1.91
MC 150	150x75x5.7	16.8	21.3	2.20	788	103	105	19.5	6.08	2.20
MC 200	200x75x6.2	22.3	28.5	2.20	1830	141	181	26.4	8.02	2.22
MC 250	250x82x9.0	34.2	43.5	2.23	4080	244	326	40.9	9.68	2.37
MC 300	300x90x7.8	36.3	46.3	2.35	6420	313	428	47.1	11.8	2.6
LC 75	75x40x3.7	5.7	7.26	1.35	66.1	11.5	17.6	4.3	3.02	1.26
LC 100	100x50x4.0	7.9	10.0	1.62	165	24.8	32.9	7.3	4.06	1.57

MS I - BEAMS / IOISTS / H - BEAMS / W - BEAMS / SC

SECTION DESCRIPTION	DIMENSION (h)x(b)x(tw) mm	SECTION WEIGHT (w) (Kg/Mtrs)	SECTION AREA (a) (cm ²)	MOMENT OF INERTIA (cm ⁴)		MOMENT OF SECTION (cm ³)		MOMENT OF SECTION (cm)	
				I _{xx}	I _{yy}	Z _{xx}	Z _{yy}	r _{xx}	r _{yy}
Mb100	100x50x4.7	8.0	11.4	183	12.9	36.6	5.16	4	1.05
MB125	125x70x5.0	13.3	17	445	38.5	71.2	11	5.16	1.51
MB150	150x75x5.0	15	19.1	718	46.8	95.7	12.5	6.13	1.57
MB200	200x100x5.7	24.2	30.8	2120	137	212	27.4	8.29	2.11
MB 250	250x125x6.7	37.3	47.5	5130	335	410	53.5	10.4	2.65
MB 300	300x140x7.7	46	58.6	8990	486	599	69.5	12.4	2.86
MB 400	400x140x8.9	61.5	78.4	20500	622	1020	88.9	16.2	2.82
HB 150	150x150x8.4	30.6	39	1540	460	205	60.2	6.29	3.44
WB 203	203x152x8.9	52	66.5	4790	814	471	107	8.48	3.54
SC 152	152x152x7.9	37.1	47.4	1970	700	259	91.9	6.45	3.84

MS ANGLES & HT ANGLES

SECTION DESCRIPTION	DIMENSION (A)x(B)x(t) mm	SECTION WEIGHT (w) (Kg/Mtrs)	SECTION AREA (a) (cm ²)	C _{xx} C _{yy} (cm)	MOMENT OF INERTIA (cm ⁴)			RADI OF GYRATION (cm ²)			MODULI of Z _{xx} =Z _{yy} (cm)
					I _{xx} =I _{yy}	I _{xx}	I _{yy}	r _{xx} =r _{yy}	r _{xx}	r _{yy}	
A 45x45	45x45x4	2.70	3.47	1.25	6.50	10.40	2.60	1.37	1.73	0.87	2.00
	45x45x5	3.40	4.28	1.29	7.90	12.60	3.20	1.36	1.72	0.87	2.50
	45x45x6	4.00	5.07	1.33	9.20	14.60	3.80	1.35	1.70	0.87	2.90
A 50x50	50x50x4	3.00	5.27	1.37	9.10	14.50	3.60	1.53	1.93	0.97	2.50
	50x50x5	3.80	6.26	1.41	11.00	17.60	4.50	1.52	1.92	0.97	3.10
	50x50x6	4.50	8.18	1.45	12.90	20.60	5.30	1.51	1.90	0.96	3.60
A 55x55	55x55x4	3.30	4.26	1.49	12.30	19.59	4.73	1.68	2.12	1.06	3.00
	55x55x5	4.10	5.27	1.53	14.70	23.50	5.90	1.67	2.11	1.06	3.70
	55x55x6	4.90	6.26	1.57	17.30	27.50	7.00	1.66	2.10	1.06	4.40
	55x55x8	6.40	8.18	1.65	22.00	34.90	9.10	1.64	2.07	1.06	5.70
A 60x60	60x60x4	3.70	4.71	1.60	15.80	25.00	6.58	1.83	2.30	1.18	3.58
	60x60x5	4.50	5.75	1.65	19.20	30.60	7.70	1.82	2.31	1.16	4.40
	60x60x6	5.40	6.84	1.69	22.60	36.00	9.10	1.82	2.29	1.15	5.20
	60x60x8	7.00	8.96	1.77	29.00	46.00	11.90	1.80	2.27	1.15	6.80
A 65x65	65x65x4	4.00	5.04	1.74	21.70	34.50	8.00	2.00	2.52	1.26	4.50
	65x65x5	4.90	6.25	1.77	24.70	39.40	9.90	1.99	2.51	1.26	5.20
	65x65x6	5.80	7.44	1.81	29.10	46.50	11.70	1.98	2.50	1.26	6.20
	65x65x8	7.70	9.76	1.89	37.40	59.50	15.30	1.96	2.47	1.25	8.10
A 70x70	70x70x5	5.30	6.77	1.89	31.10	49.80	12.50	2.15	2.71	1.36	6.10
	70x70x6	6.30	8.06	1.94	36.80	58.80	14.80	2.14	2.70	1.36	7.30
	70x70x8	8.30	10.60	2.02	47.40	75.50	19.30	2.12	2.67	1.35	9.50
	70x70x10	10.20	13.00	2.10	57.20	90.70	23.70	2.10	2.64	1.35	11.70
A 75x75	75x75x5	5.70	7.27	2.02	38.70	61.90	15.50	2.31	2.92	1.46	7.10
	75x75x6	6.80	8.66	2.06	45.70	73.10	18.40	2.30	2.91	1.46	8.40
	75x75x8	8.90	11.40	2.14	59.00	94.10	24.00	2.28	2.88	1.45	11.00
	75x75x10	11.00	14.00	2.22	71.40	113.00	29.40	2.26	2.84	1.45	13.50
A 80x80	80x80x6	7.30	9.29	2.18	56.00	89.60	22.50	2.46	3.11	1.56	9.60
	80x80x8	9.60	12.20	2.27	72.50	116.00	29.40	2.44	3.08	1.55	12.60
	80x80x10	11.80	15.00	2.34	87.70	139.00	36.00	2.41	3.04	1.55	15.50
	80x80x12	14.00	17.80	2.42	102.00	161.00	42.40	2.39	3.01	1.54	18.30





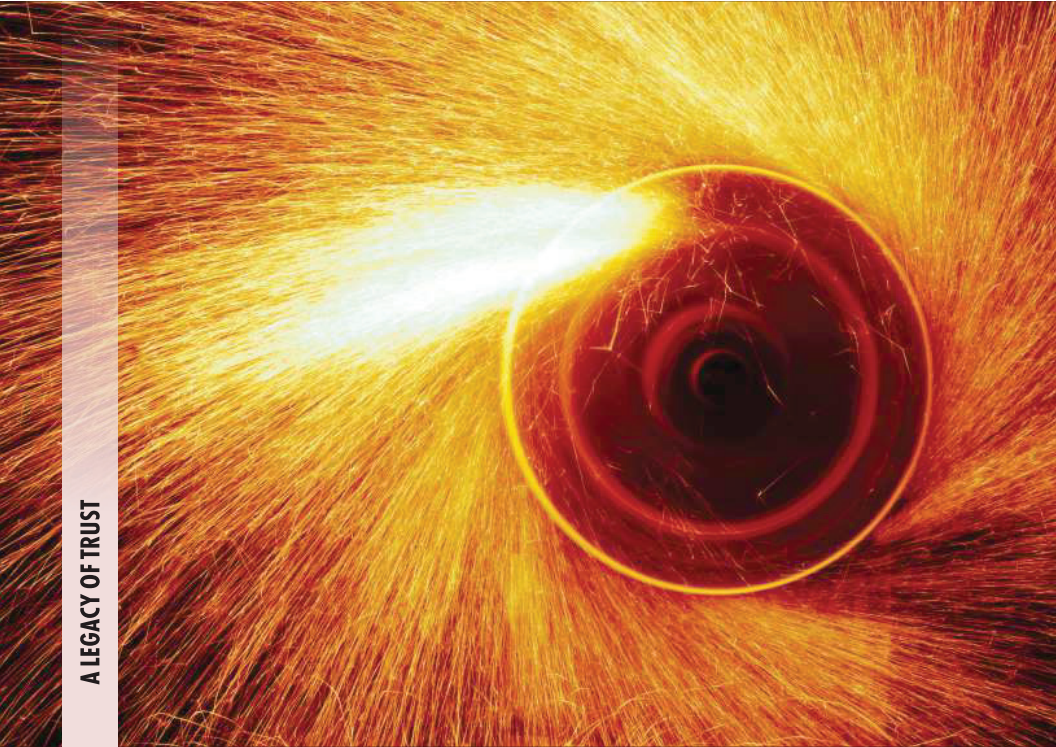
MS ANGLES & HT ANGLES

SECTION DESCRIPTION	DIMENSION (A)x(B)x(t) mm	SECTION WEIGHT (w) (Kg/Mtrs)	SECTION AREA (a) (cm ²)	C _{xx} C _{yy} (cm)	MOMENT OF INERTIA (cm ⁴)			RADI OF GYRATION (cm)			MODULI of Z _{xx} =Z _{yy} (cm)
					I _{xx} =I _{yy}	I _{yy}	I _{zz}	r _{xx} =r _{yy}	r _{yy}	r _{zz}	
A 90x90	90x90x6	8.20	10.50	2.42	80.10	128.00	32.00	2.77	3.50	1.75	12.20
	90x90x8	10.80	13.80	2.51	104.00	166.00	42.00	2.75	3.47	1.75	16.00
	90x90x10	13.40	17.00	2.59	127.00	202.00	51.60	2.73	3.44	1.74	19.80
	90x90x12	15.80	20.20	2.66	148.00	235.00	60.90	2.71	3.41	1.74	23.30
A 100x100	100x100x6	9.20	11.70	2.67	111.00	178.00	44.50	3.09	3.91	1.95	15.20
	100x100x8	12.10	15.40	2.76	145.00	232.00	58.40	3.07	3.88	1.95	20.00
	100x100x10	14.90	19.00	2.84	177.00	282.00	71.80	3.05	3.85	1.94	24.70
	100x100x12	17.7	22.60	2.92	207.00	329.00	84.70	3.03	3.82	1.94	29.20
A 110x110	110x110x8	13.4	17.10	3.00	197.00	313.00	81.00	3.40	4.28	2.18	24.60
	110x110x10	16.6	21.10	3.09	240.00	381.00	98.90	3.37	4.25	2.16	30.40
	110x110x12	19.7	25.10	3.17	281.00	446.00	116.00	3.35	4.22	2.15	35.90
	110x110x16	25.7	32.80	3.32	357.00	560.00	150.00	3.30	4.15	2.14	46.50
A 120x120	120x120x8	14.7	18.70	3.23	255.00	405.00	105.00	3.69	4.65	2.37	29.10
	120x120x10	18.2	23.20	3.31	313.00	497.00	129.00	3.67	4.63	2.36	36.00
	120x120x12	21.6	27.50	3.40	368.00	584.00	151.00	3.65	4.60	2.35	42.70
	120x120x15	26.6	33.90	3.51	445.00	705.00	185.00	3.62	4.56	2.33	52.40

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					I _{xx} =I _{yy}	I _{yy}	I _{zz}	r _{xx} =r _{yy}	r _{yy}	r _{zz}	
A 130x130	130x130x8	15.9	20.30	3.50	331	526	136	4.04	5.10	2.59	34.9
	130x130x10	19.7	25.10	3.59	405	640	166	4.02	5.07	2.57	43.1
	130x130x12	23.5	29.90	3.67	476	757	196	3.99	5.03	2.56	51.0
	130x130x16	30.7	39.20	3.82	609	966	250	3.94	4.97	2.54	66.3
A 150x150	150x150x10	22.9	29.20	4.08	634	1010	260	4.66	5.87	2.98	58.0
	150x150x12	27.3	34.80	4.16	746	1190	306	4.63	5.84	2.97	68.8
	150x150x15	33.8	43.00	4.25	898	1430	370	4.57	5.76	2.93	83.5
	150x150x16	35.8	45.60	4.31	959	1520	395	4.58	5.77	2.94	89.7
	150x150x18	40.1	51.00	4.37	1050	1670	335	4.54	5.71	2.92	98.7
A 200x200	150x150x20	44.1	56.20	4.46	1160	1830	481	4.53	5.71	2.93	110.0
	200x200x12	36.9	46.90	5.39	1830	2910	747	6.24	7.87	3.99	125.0
	200x200x16	48.5	61.80	5.56	2370	3760	968	6.19	7.80	3.96	164.0
	200x200x20	60	76.40	5.71	2880	4570	1180	6.14	7.73	3.93	201.0
200x200x25	71.1	90.60	5.84	3330	5280	1380	6.06	7.64	3.90	235.0	
	73.9	94.10	5.90	3470	5500	1440	6.07	7.61	3.91	246.0	





QUALITY CONTROL

Excellence in production is our prime motto and we never compromise on the quality of both, machines and the men behind them. Each cycle of production is followed by onsite quality control and analysis.

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Jeevaka
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STRUCTURAL STEEL

Quality objectives

- Customer satisfaction
- Technological advancement
- Cost reduction

Quality implementation

- Strict adherence to sampling and testing of steel chemistry
- Detailed sampling of finished products
- Rolling in negative tolerance
- Advanced products through technological upgrades
- Ensuring systematic working procedures
- Strict adherence to ISI standards and procedures
- High team motivation to meet the company's vision

Quality assurance

The company is committed on providing the customers with quality products through in-process quality inspection, strict adherence to delivery schedule and prompt service.

Quality accreditations

Dhanlaxmi-turbo TMT re-bars are produced based on German Technology and Design. Our processes and products conform to: German Bst 420S/500S of Din 488m British Gr. 460 of BS 4449/- 1978, Egyptian Standard 262/1988 Gr. 36/52 and 40/60.

Fe-500 & Fe-550 IS: 2000:2015 JJIS G3112 1975 SD 30, 35, 40 & 50; Swiss topar 550S of SIA 162; French Fe E50 of NF A35-016.

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STRUCTURAL STEEL

Accreditation & Approvals:

