

Quality Assurance

Our strong focus on manufacturing process and quality assurance enables us to supply high quality material and deliver cost effective solution. Our manufacturing practice has been technology driven and to stay at the fore front of innovation, we continuously invest in Research and Development. Our quality management system ensures high level of quality by inspection of incoming material and mandatory quality checks at every stage throughout the manufacturing process. Our highly equipped quality and testing facility enables us to deliver superior quality products conforming to Indian/International standards and achieve total customer satisfaction.

Inward Inspection

Upon receipt of basic raw materials our quality team will take a random sample subjected for chemical analysis test conducted on computerized spectrometer to ensure the raw materials as per the IS standards apart from that the material will also be tested on UTS machine to check ultimate tensile strength of the raw material after satisfactory report of the samples the same will be cleared for production.

In process Inspection:

Online testing will be carried out at every stage with suitable jigs & gauges to ensure the required specifications as defined in the standards.

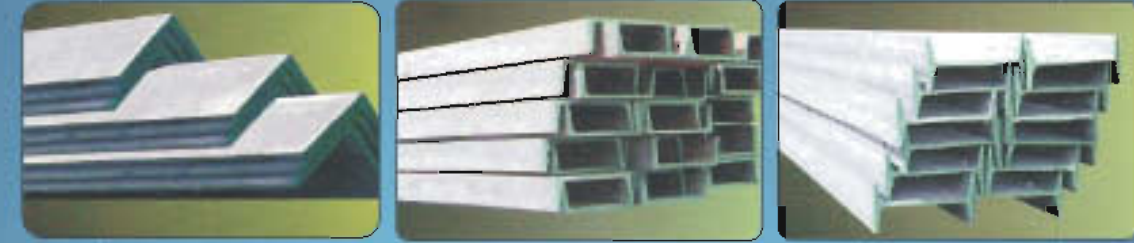
Final Inspection:

Final inspection check is carried out to ensure that Product Quality is in conformance with specified requirements.

Inspection and Test Reports / Records are maintained to establish that the product has passed inspection and testing in accordance criteria defined in the inspection and testing procedures. Records are maintained for calibration and verification of monitoring and measuring equipments. We are ISO 9001-2008 certified for well maintained Quality Management Systems by NQA-UKAS.

Kadevi test equipment include:

1. Latest emission spectrometer for instant and accurate chemical analysis of metal.
2. Physical testing facilities like ultimate tensile test, bend test, hardness test and impact test at Lab.
3. Other measuring instrument, Gauges etc. to confirm to Specification & Drawings



Steel Rolling Mill Division

CUSTOMER SATISFACTION WITH ENHANCED QUALITY AND RELIABILITY



Serving the nation since 1964...

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Steel Rolling Mill Division

About Kadevi

Kadevi was established in 1964 and started as a small scale industry manufacturing of Communication Antennas and Pneumatic Telescopic Masts. Subsequently the company further expanded its wings into various manufacturing & service fields.

Kadevi has rapidly grown to a large scale industry just in 3 years and have received several awards and became pioneer in all fields. Today the company is having 1000 plus strong manpower.

Manufacturing Divisions

- Towers & Galvanising
- Telescopic & Guyed Masts
- Antenna Systems
- Steel Rolling Mill
- Fasteners
- AC Generators
- DC Generators

Service Divisions

- Transmission & Distribution
- Tower Installations
- EPC & TSP

Kadevi is having a rare combination of full scaled infrastructure under one roof with state of art in house facilities right from manufacturing of steel sections, fabrication of towers & structures, Hot dip galvanising, Fasteners & Generators at Ankireddypally Plant. These facilities are fully equipped to ensure the highest level of quality and delivery timelines of customer.

Steel Rolling Mill Division

Our rolling mill is fully automatic right from billet loading till extrusion of sections with state of art infrastructure with expertise manpower. Our mill is capable of producing 60,000 metric tons of structural steel of various sections, channels and beams. Our angles are BIS certified as per IS 2062 : 2006

Infrastructure

- 20 mtrs X3.4 double zone pusher type Reheating Oil Fired Furnace.
- 18 Inches Mill Stand attached with Totally automatic conveyor.
- Online Hot Saw Machine.
- Cooling Bed with size 27 mtrs x 9 mtrs with automatic conveyors.
- 3 No's Heavy Duty Straightening machines.
- In house work shop equipped with full scaled machinery for rolls tooling.
- Completely Integrated with 3 EOT Cranes, 3 Mobile Cranes, suspended weighing machine and in-house Weighbridge.

Production Process



Billet Cutting:

We receive billets in 6 mts & 12 mts lengths from which we cut the billet to predetermine size to get correct length & dimension of the structure.



Billet Re-heating:

The Billet is fed into reheating furnace till it obtains the job temperature of 1200°C. After obtaining the temperature The billet is ejected out to the conveyor to pass through mill stands.

Billet Rolling:

The Hot billet is fed into the rolling process, in which billet is passed through the rollers clamped to the Six Stands to get the predetermined size.

Online Hot-Saw Machine:

Our Online Hot-Saw is to cut every section to the precised size as well as to trim front & Rear End of the structure.



Cooling Bed:

The cooling bed is used to uniformly air cool the sections after cooling transporting the same in a phased manner from the entry to discharge size. These cooling bed impart better straightness in material with improvised metallurgical properties as the sections are uniformly cooled.



Straightening:

Straightening Machine straightens all the deformed products like Angles Channels & I-Beams after cooling.



Packing:

After ensuring the correct straightness of section we pack the material in 2.5 to 3MT bundles.

Range of Products

Equal Leg Angles

SIZE mm	Thickness mm				Weight Kg./Mtr			
	4	5	6	8	10	12	16	20
mm x mm								
40X40	2.40	3.00	3.60					
45X45	2.70	3.40	4.00	*	*	*	*	*
50 x 50	3.00	3.80	4.50	*	*	*	*	*
55 x 55	3.30	4.10	4.90	6.40	*	*	*	*
60 x 60	3.60	4.50	5.40	7.00	*	*	*	*
65 x 65	3.90	4.90	5.80	7.70	9.40	*	*	*
70 x 70	*	5.30	6.30	8.30	10.20	*	*	*
75 x 75	*	5.70	6.80	8.90	11.00	*	*	*
80 x 80	*	*	7.30	9.60	11.80	14.00	*	*
90 x 90	*	*	8.20	10.80	13.40	15.80	*	*
100 x 100	*	*	9.20	12.10	14.90	17.70	*	*
110 x 110	*	*	*	13.40	16.60	19.70	*	*
130 x 130	*	*	*	15.90	19.70	23.50	*	*
150 x 150	*	*	*	*	22.90	27.30	35.80	44.10

MEDIUM WEIGHT CHANNELS

Product Range	Mass (M)	Sectional Area(a)	Dimensions						
			D	B	t	T	Flange Slope	R1	R2
	Kg	cm2	mm	mm	mm	mm	Deg	mm	mm
	2	3	4	5	6	7	8	9	10
MC 75	7.14	9.1	75	40	4.8	7.5	96	8.5	2.4
MC 100	9.56	12.2	100	50	5	7.7	96	9	2.4
MC 125	13.1	16.7	125	65	5.3	8.2	96	9.5	2.4
MC 150	16.8	21.3	150	75	5.7	9	96	10	2.4

BEAM SECTION (Joist)

Product Range	Mass (M)	Sectional Area(a)	Dimensions						
			D	B	t	T	Flange Slope	R1	R2
	Kg	cm2	mm	mm	mm	mm	Deg	mm	mm
	2	3	4	5	6	7	8	9	10
MB 100	8.9	11.4	100	50	4.7	7	98	9	4.5
MB 125	13.3	17	125	70	5	8	98	9	4.5
MB 150	15	19.1	150	75	5	8	98	9	4.5
MB 175	19.6	25	175	85	5.8	9	98	10	5
MB 200	24.2	30.8	200	100	5.7	10	98	11	5.5

* The standard length for all dimensions rage from 10-13 Mtr., However Kadevi can supply fixed length ranging from 6-13 Mtr. As required.
Kadevi reserves the right to change without notice the specifications of the production range.