



BLACK PIPES
GALVANISED TUBES & PIPES
SQUARE & RECTANGULAR PIPES
ERW STEEL TUBES & TUBES
GROOVED TUBES, CR COILS, CRCA
GP/GC, POWER & TELECOM TOWERS

Good Luck Steel Tubes Ltd.

Regd. Office :

5/102, Sikka Complex,
Community Centre
Preet Vihar, Vikas Marg,
Delhi - 110 092 (INDIA)

Tel. : +91-11-22465439
Telefax : +91-11-22214254

Administrative Office :

II F 166-167, Goodluck House,
Nehru Nagar, Ambedkar Road,
Ghaziabad (U.P.) (INDIA)
E-mail : goodluck@goodlucksteel.com

Tel. : +91-120-4196600, 4196700
Fax : +91-120-4196666, 4196777

Works:

Khasra No. 2839,
Gram Dhoom Manikpur,
G.T. Road , Gautam Budh Nagar,
Dadri, (U.P.) INDIA

Tel. : 0091-5735-221969, 221970
Fax : 0091-5735-222863

www.goodlucksteel.com

Good Luck Steel Tubes Ltd.

“ A Versatile Business Group with Strong Foundations ”

Good Luck Group a manufacturer and exporter of a wide range of Cold Rolled Steel, Hot Dip Galvanized Steel (HDGI), Towers, Tubes & Pipes, forgings and flanges, was established over two decades ago. With its innovative and progressive approach the group today is one of the leading and fastest business groups in the Steel Industry. An ISO 9001 certified organization, Good Luck group operates under three verticals; Good Luck Steel Tubes Ltd., Good luck Engineering Co. and Good Luck Industries.

“ Infinite, The possibilities we aspire ”



Good Luck Steel Tubes Ltd.



Galvanised Tubes
& Pipes
Black Pipes
Square &
Rectangular Pipes
ERW Steel Tubes
& Tubes
Grooved Tubes

CR Coils
CRCA
GP/GC

Power &
Telecom Towers

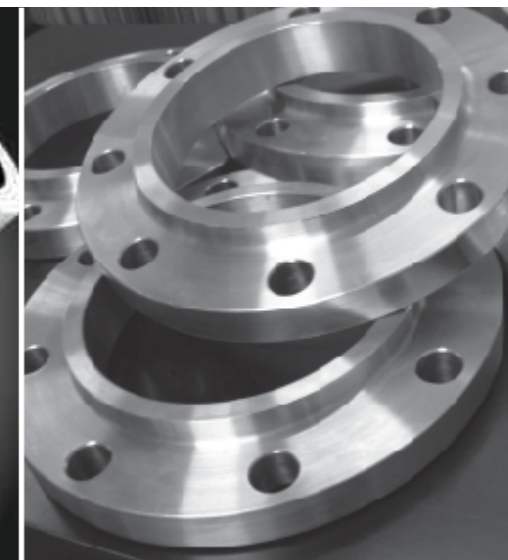
We have an advanced manufacturing unit located at Bulandshahar District of Uttar Pradesh, (India) facilitating fabrication of steel products in bulk quantity. A thorough inspection by distinguished agencies such as DGS & D, RITES, BHEL and SGS ensures highest quality in our product range. As a group we have always strived for continuous expansion and constant growth.

Good Luck Industries

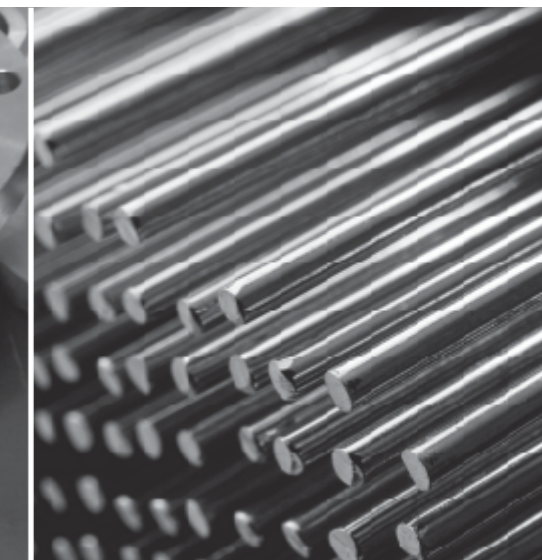


Power &
Telecom Towers

Good Luck Engineering Co.



Power &
Telecom Towers



Power &
Telecom Towers

Good Luck Steel Tubes Ltd.

Established in the year 1986, Goodluck Steel Tubes Ltd is an ISO 9001:2008 certified organization, engaged in manufacturing and exporting of a wide range of galvanized sheets & coils, towers, hollow sections, CR coils CRCA and pipes & tubes. We also specialize in providing Telecommunication Structures, ERW Steel Tubes, ERW Steel Pipes, and Galvanized Black Steel Tubes. These are acclaimed for high tensile strength, long service life and higher efficiency.

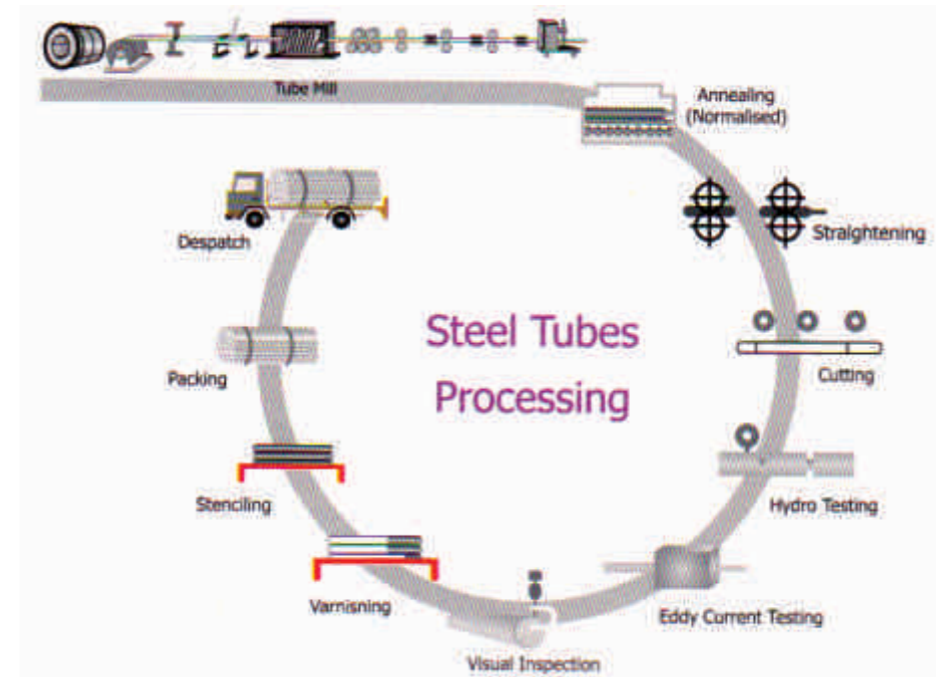
“ State of the Art Pipe & Section Making Technology ”

“ Process Flow that works with precision ”

Our plant is situated at Sikandarabad industrial area just 45km from Delhi. It has the state of the art tube mills , galvanizing units , cold rolling mills galvanized coil unit and corrugation machines. Pipe and lattice type structures are also fabricated and galvanized here.

Manufacturing Tubes according to Specifications

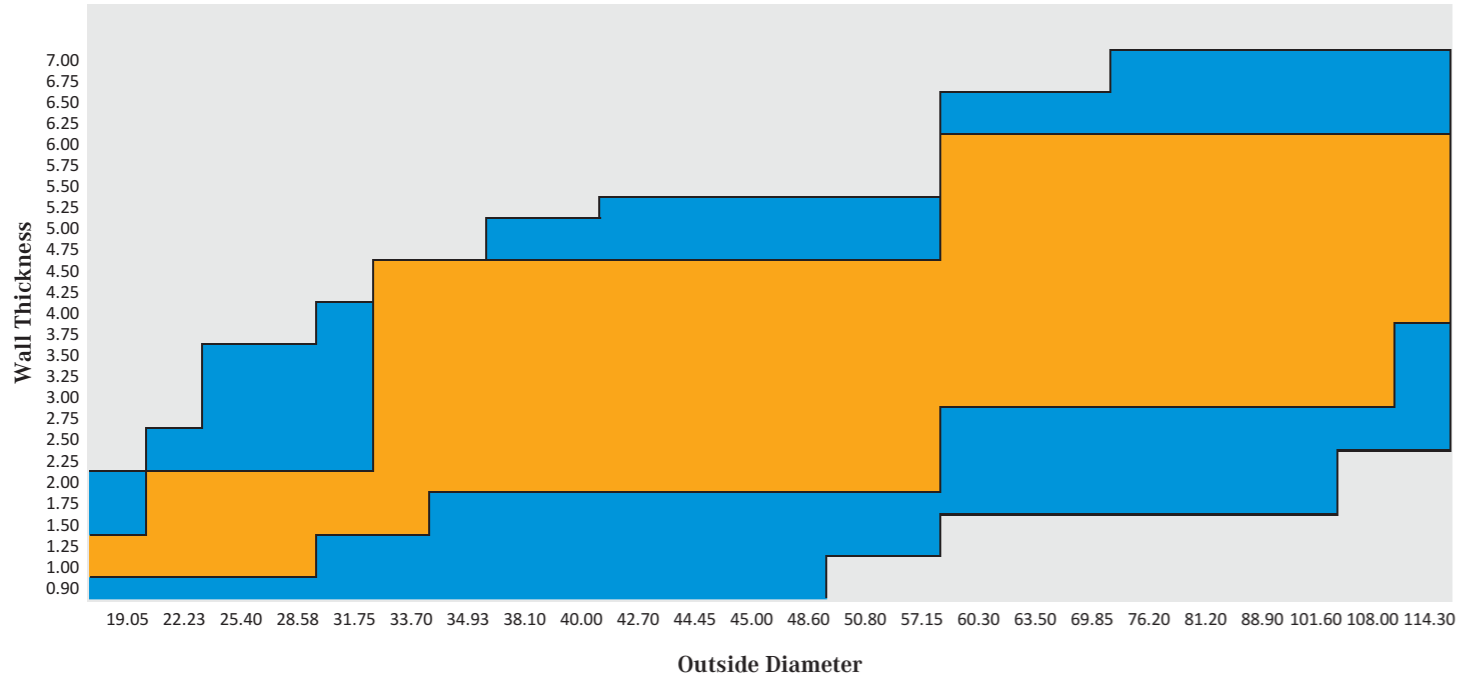
IS : 1239 (Part - 1) 2004	IS : 277 / 1992	JIS : G-3452	DIN : 1626
IS : 1161 / 1998	BS : 1387 / 1985	ASTM : A-120	EN : 10255
IS : 3589 / 2001	BS : 534	ASTM : A-53	
IS : 3601 / 1984	BS : 1139 / En39	ISO : 65-1981	
IS : 9295 / 1983	BS : 6323	IS : 4923 : 1997	
IS : 4270 / 2001	DIN : 2439	EN : 10219	
IS : 2713 / 1980	DIN : 2440	EN : 10217	
IS : 1978 / 1982	DIN : 2441	DIN : 2458	



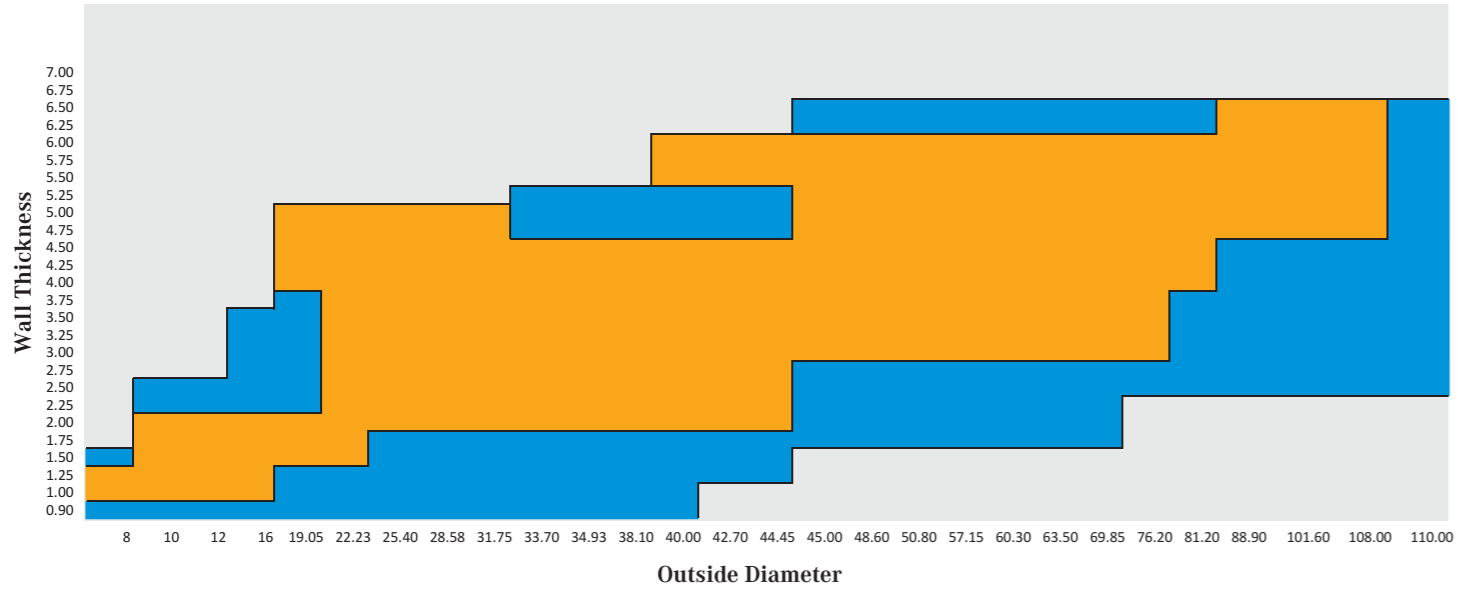
Infrastructure

“ A Versatile Product Range ”

ERW Tubes



CDW Tubes



Standard Product Range
 Product Range Extended on Customer's Request

Specifications of Tubes

EQUIVALENT STANDARDS - TUBES						
EQ-Standards Industry	Indian IS	British BS	Japanese JIS	German DIN	American ASTM/API	Any Other Standards
Bicycle Tubes	IS 2039 (parts 1-3)/1991	BS 1717/1983				
Automobile Tubes	IS 3074	BS 6323/1982	JIS G 3445/1983	DIN 2393/1994 DIN 2394/1994	ASTM A513/1994	
General Engg. Tubes	IS 3601/1984	BS 6323/1982	JIS G 3445/1983	DIN 2393/1994 DIN 2393/1994		
Boiler Tubes	IS 1914 (parts 1-4)/1982	BS 3059 (part-1)/1987 BS 3059 (part-1)/1990	JIS G 3461/1984		ASTM A53/1993 ASTM A214/1990	
Propeller Shaft Tube						Customer Specification
Air Heater Tubes	IS 3601/1984	BS 3059 (part-1)/1987	JIS G 3461/1984		ASTM A214/1990	
Transformer Tubes	IS 8036/1976					
Oil Pipes	IS 1978/1982 /1979	BS 1387/1985	JIS G 3452/1983	DIN 17177/1979	API 5L Gr. A/1995	
Shock Absorber Tubes	IS 3074/1979		JIS G 3452/1983	DIN 2393/1994	ASTM A513/1994	Customer Specification
Furniture Tubes	IS 7138/1973		JIS G 3445/1983			
Heat Exchanger Tubes		BS 3606/1982	JIS G 3461/1984	DIN 17177/1979	ASTM A178/1990 ASTM A214/1990	
Structural Tube	IS 1161/1979	BS 7613/1994	JIS G 3444/1984		ASTM A 500 Gr. A/1993	
Idler Tubes	IS 9295/1983					
Sectional Tubes	IS 4923/1985		JIS G 3466/1982		ASTM A500 Gr. A 1993	
Telescopic Front fork Tubes						Customer Specification
Bobbin Tubes for Textile Machinery						Customer Specification
Casing & Tubing					API 5CT/1995	
Hydro Carban & Process Industries	IS 6286				ASTM A53	
Condenser Tubes	IS 1914 (PT-IV) IS 246 (PT-V) IS 11714 (PT-III)					



Steel Tubes for uses in Water, Gas, Air & Steam

CONFORMING TO IS:1239 (PART-1) 2004/ BS:1387/85

N.B. And Series	Outside Diameter		Wall Thickness		Nominal Weight Black Tubes				Nominal Weight Galvanised Tubes				Sockets	
					Plain End		Screwed & Socked		Plain End		Screwed & Socked		Minimum OD	Maximum Length
	mm	Min (mm)	Max (mm)	mm	SWG	Kg/m	m/tonne	Kg/m	m/tonne	Kg/m	m/tonne	Kg/m		
15 L	21.0	21.4	2.00	14	0.947	1056	0.956	1046	0.947	1056	0.956	1046	27.0	37.0
M	21.0	21.8	2.60	12	1.21	826	1.22	819	1.21	826	1.22	819		
H	21.0	21.8	3.20	10	1.44	694	1.45	689	1.44	689	1.45	689		
20 L	26.4	26.9	2.30	13	1.38	724	1.39	719	1.38	719	1.39	719	32.5	39.0
M	26.5	27.3	2.60	12	1.56	641	1.57	637	1.56	637	1.57	637		
H	26.5	27.3	3.20	10	1.87	534	1.88	532	1.87	532	1.88	532		
25 L	33.2	33.8	2.60	12	1.98	500	2.00	500	1.98	500	2.00	500	39.5	46.0
M	33.3	34.2	3.20	10	2.41	415	2.43	411	2.41	411	2.43	411		
H	33.3	34.2	4.00	8	2.93	341	2.95	339	2.93	339	2.95	339		
32 L	41.9	42.5	2.60	12	2.54	393	2.57	389	2.54	389	2.57	389	49.0	51.0
M	42.0	42.9	3.20	10	3.10	322	3.13	319	3.10	319	3.13	319		
H	42.0	42.9	4.00	8	3.79	264	3.82	261	3.79	261	3.82	261		
40 L	47.8	48.4	2.90	11	3.23	309	3.27	306	3.23	306	3.27	306	56.0	51.0
M	47.9	48.8	3.20	10	3.56	281	3.60	227	3.56	227	3.60	227		
H	47.9	48.8	4.00	8	4.37	229	4.41	226	4.37	226	4.41	226		
50 L	59.6	60.2	2.90	11	4.08	245	4.15	241	4.08	241	4.15	241	68.0	60.0
M	59.7	60.8	3.60	9	5.03	199	5.10	169	5.03	169	5.10	169		
H	59.7	60.8	4.50	7	6.19	161	6.26	159	6.19	159	6.26	159		
65 L	75.2	76.0	3.20	10	5.71	175	5.83	171	5.71	171	5.83	171	84.0	69.0
M	75.3	76.6	3.60	9	6.42	155	6.54	153	6.42	153	6.54	153		
H	75.3	76.6	4.50	7	7.93	126	8.05	124	7.93	124	8.05	124		
80 L	87.9	87.7	3.20	10	6.72	149	6.89	145	6.72	145	6.89	145	98.0	75.0
M	88.0	89.5	4.00	8	8.36	119	8.53	117	8.36	117	8.53	117		
H	88.0	89.5	4.80	6	9.90	101	10.10	96	9.90	96	10.10	96		
100 L	113.0	113.9	3.60	9	9.75	102	10.0	100	9.75	100	10.0	100	124.0	87.0
M	113.1	115.0	4.50	7	12.20	82	12.50	80	12.20	80	12.50	80		
H	113.1	115.0	5.40	5	14.50	69	14.80	67	14.50	67	14.80	67		
125 M	138.5	140.8	4.80	6	15.90	63	16.40	61	15.90	61	16.40	61	151.0	96.0
H	138.5	140.8	5.40	5	17.90	56	18.4	54	17.9	54	18.4	54		
150 M	163.9	166.5	4.80	6	18.90	53	19.50	51	18.90	51	19.50	51	178.0	96.0
H	163.9	166.5	5.40	5	21.30	47	21.9	45	21.30	45	21.9	45		

Tolerances

(a) Thickness

1. Light Tube	+ Not limited -8%	2. Single Tube (Medium And Heavy Series)	+/- 10%
2. Medium and Heavy Tubes	+Not limited -10%	3. For Light Series	-5%, +7.5%

(b) Weight

1. Single Tube (Light Series)	+10% -8%	4. For Quantities per load of 10 tonnes minimum (Medium and heavy Series)	+7.5%, -5%
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Mechanical Properties

TS (MPa)	% EL
320	12 Upto & Including 25 mm NB 20 Above 25 mm NB

Steel Tubes for Water, Gas and Sewage Purposes

CONFORMING TO IS:3589 / 2001 (GRADE FE 330 AND FE 410)

Outside Diameter mm	Thickness mm	Weight (Plain End)	
		Kg / M	M / Tonne
168.3	2.6	10.6	94
	3.2	13.2	83
	4.0	16.20	55
	4.5	18.2	55
219.1	2.6	13.9	72
	3.6	19.1	52
	4.5	23.8	42
	6.3	33.1	30
	7.0	36.61	27
273.0	3.6	23.9	42
	4.0	26.5	38
	5.0	33.0	30
	6.3	41.4	24
323.9	4.0	31.6	31
	4.5	35.4	28
	5.6	44.0	23
	7.1	55.5	18
355.6	4.0	34.7	29
	5.0	43.2	2
	5.6	48.3	21
	8.0	68.6	15
406.4	4.0	39.7	25
	5.0	49.5	20
	6.3	62.2	16
	8.8	86.3	12

Tolerances

a. Outside Diameter +/- 0.75%

b. Thickness +/- 10%

c. Length

Unless otherwise specified, length are in single random Length of 4 to 7 meters or double random length of 7 to 14 M

Also Available:

Internal Bead Free & Screwed & Socketed Black & Galvanized Pipes

Chemical Composition

Steel Grade	% E (Max)	% MN (Max)	% P (Max)	% S (Max)	CE (Max)
Fe 330	0.16	1.20	0.040	0.040	-
FE410	0.20	1.30	0.040	0.040	0.45

Mechanical Properties

YST (MPa) Min	TS (MPa) Min	% EL (Min)
195	330	20
235	410	18

Steel Tubes for Structural Purposes

CONFORMING TO IS: 1161:1998

N.B. And Series	Outside Diameter	Thickness	Nominal Weight Black Tubes Plain End		Calculated Nominal Weight Galvanized Tubes Plain End	
			Kg/m	m/tonne	Kg/m	m/tonne
15 L M H	21.3	2.0	0.947	1058	1.00	1003
		2.6	1.21	826	1.26	794
		3.2	1.44	694	1.49	671
20 L M H	26.9	2.3	1.38	725	1.43	699
		2.6	1.56	641	1.61	621
		3.2	1.87	535	1.92	521
25 L M H	33.7	2.6	1.98	505	2.03	493
		3.2	2.41	415	2.46	407
		4.0	2.93	341	2.98	336
32 L M H	42.4	2.6	2.54	394	2.62	382
		3.2	3.10	323	3.18	314
		4.0	3.79	264	3.87	258
40 L M H	48.3	2.9	3.23	310	3.34	299
		3.2	3.56	281	3.67	272
		4.0	4.37	229	4.48	223
50 L M H	60.3	2.9	4.08	245	4.20	238
		3.6	5.03	199	5.15	194
		4.5	6.19	162	6.31	158
65 L M H	76.1	3.2	5.71	175	5.86	171
		3.6	6.42	156	6.57	152
		4.5	7.93	126	8.10	123
80 L M H	88.9	3.2	6.72	149	6.90	145
		4.0	8.63	120	8.54	117
		4.8	9.90	101	10.08	99
90 L M H	101.6	3.6	8.70	115	8.97	111
		4.0	9.63	144	7.20	139
		4.8	11.50	87	11.77	85
100 L M H	114.3	3.6	9.75	103	9.97	100
		4.5	12.20	82	12.42	81
		5.4	14.50	69	14.72	68

N.B. And Series	Outside Diameter	Thickness	Nominal Weight Black Tubes Plain End		Calculated Nominal Weight Galvanized Tubes Plain End	
			Kg/m	m/tonne	Kg/m	m/tonne
110 L M H	127.0	4.5	13.60	74	13.90	72
		4.8	14.50	69	14.80	68
		5.4	16.20	62	14.80	61
125 L M H	139.7	4.5	15.00	67	15.25	66
		4.8	15.90	63	16.15	62
		5.4	17.90	56	18.15	55
135 L M H	152.4	4.5	16.40	61	16.78	60
		4.8	17.50	57	17.88	56
		5.4	19.60	51	19.98	55
150 L M H	165.1	4.5	17.80	56	18.20	55
		4.8	18.90	52	19.80	51
		5.4	21.30	47	21.70	46
150 L M H1 H2	168.3	4.5	18.2	55	18.66	54
		4.8	19.4	52	19.88	50
		5.4	21.7	46	22.24	45
		6.3	25.2	40	41.00	24
175 L M H	193.7	4.8	22.40	45	22.94	44
		5.4	25.10	40	25.64	39
		5.9	27.30	37	27.84	36
200 L M H	219.1	4.8	25.40	39	25.95	39
		5.6	29.50	34	30.05	33
		5.9	31.00	32	31.55	32
225 H	244.5	5.9	34.70	29	35.36	28
250 H	273.0	5.9	38.90	26	39.68	25
300 H	323.9	6.3	49.30	20	50.28	20
350 H	355.6	8.0	68.60	15	69.58	14

A. TENSILE PROPERTIES

GRADE	Y.S. (MIN) Mpa (Kg/mm ²)	T.S. (MIN) Mpa (Kg/mm ²)	%age Elongation
YST-210	210 (21.42)	330 (33.66)	20
YST-240	240 (24.48)	410 (41.82)	17
YST-310	310 (31.62)	450 (45.9)	8

NOTE: For tube size upto and including 25 mm NB, elongation of 12% shall be permissible

B. TOLERANCES

i) Outside diameter upto & including 48.3 mm
+0.4 mm -0.8 mm Over 48.3 mm +/- 1 %

C. THICKNESS

For all sizes
Welded Tubes + Not Limited
- 10%

D. WEIGHT

Single tube (Light Class) - 8%
+ 10%

For medium & Heavy Class +/- 10%
10 Tonne Light, Medium & Heavy +/- 5%
+/- 7.5%



Steel Tubes for Line Pipes used in Oil & Petroleum Industries

CONFORMING TO IS:1978

NB (mm)	OD (mm)	Wall Thickness (mm)	Plain End Weight (Kg/m)	Test Pressure (Min)		NB (mm)	OD (mm)	Wall Thickness (mm)	Plain End Weight (Kg/m)	Test Pressure (Min)	
				Grade YST 210 STD 100 kpa	Grade YST 240 STD 100 kpa					Grade YST 210 STD 100 kpa	Grade YST 240 STD 100 kpa
80	88.90	3.20	676	89	104	200	219.10	4.80	25.37	54	63
		3.60	7.57	101	117			5.60	29.48	63	74
		4.00	8.37	112	130			6.40	33.57	73	84
		4.40	9.17	123	143			7.00	36.61	79	92
		4.80	9.95	134	156						
		5.50	11.31	154	172						
90	101.60	3.60	8.70	88	102	250	273.10	4.80	31.76	44	51
		4.00	9.63	98	114			5.60	36.94	51	59
		4.40	10.55	108	125			6.40	42.09	58	68
		4.80	11.46	117	137			7.10	46.57	65	75
		5.70	13.48	139	162			7.80	51.03	71	83
		6.40	15.02	156	182	8.70	56.72	79	92		
		7.10	16.55	174	193	9.30	60.50	85	98		
100	114.30	3.60	9.83	78	91	300	323.90	4.80	37.77	37	43
		4.00	10.88	87	101			5.60	43.96	43	50
		4.80	12.96	104	121			6.40	50.11	49	57
		5.20	13.99	113	132			7.10	55.47	54	63
		5.60	15.01	122	142			7.90	61.56	61	71
		6.00	16.02	130	152			8.40	65.35	64	75
		6.40	17.03	139	162			8.70	67.62	67	78
		7.10	18.77	154	180	9.50	73.65	73	85		
125	141.30	3.20	10.90	56	65	350	355.60	4.80	41.52	34	39
		4.00	13.54	70	82			5.20	44.93	36	42
		4.80	16.16	84	98			6.40	55.11	45	52
		5.60	18.74	98	115			7.10	61.02	50	58
		6.60	21.92	116	135			7.90	67.74	55	64
		7.10	23.50	125	145	8.70	74.42	61	71		
						9.50	81.08	66	77		
150	168.30	3.60	14.62	53	62	400	406.40	4.80	47.54	29	34
		4.00	16.21	59	76			5.20	51.45	32	37
		4.80	19.35	71	81			5.60	55.35	34	40
		5.20	20.91	77	89			6.40	63.13	39	46
		5.60	22.47	83	96			7.10	69.91	43	51
		6.40	25.55	94	110			7.90	77.63	48	56
		7.10	28.22	105	122			8.70	85.32	53	62
						9.50	92.98	58	68		

A. Outside Diameter - The Outside diameter

tolerance shall be as follows,		
Pipe Body	Tolerance	
For Size	+0.40 mm	
48.3 mm and less	- 0.80 mm	
60.3 mm and above	+/- 1%	

B. Wall thickness - The Tolerance on the wall thickness of line pipes shall be as follows:

Type	For	Tolerance
Welded Pipes	73.0 mm and smaller	+20.0%
		-12.5%
	88.90 mm O.D. & Larger	+18.0%
		-12.5%

C. Weight -

The Tolerance shall be as follows:		
Grade YST - 210 & YST - 240		+10.0%
		-3.5%
Grade YST - 170		+10.0%
		-5.0%
Special Plain End Pipes - All Grades		+10.0%
		-5.0%
Car loads lots for min 18000 Kg:		
Grade YST 210 & YST 240		-1.75%
Grade YST 170		-2.5%





Hollow Steel Sections for Structural Use

CONFORMING TO IS : 4923 1997 (HOT DIP / BLACK, GALVANIZED & PER GALVANIZED)

Square Hollow Sections (SHS)

Section SHS (mm)	Depth D (mm)	Width B (mm)	Thickness T (mm)	Weight W (Kg / m)	Mtr. / Tonne
20 x 20	20.00	20.00	1.80	0.964	1037
	20.00	20.00	2.00	1.05	952
	20.00	20.00	2.40	1.21	826
	20.00	20.00	2.60	1.28	779
25 x 25	25.00	25.00	2.60	1.69	591
	25.00	25.00	3.20	1.98	504
30 x 30	30.00	30.00	2.60	2.10	476
	30.00	30.00	3.20	2.49	402
	30.00	30.00	4.00	2.94	340
32 x 32	32.00	32.00	2.00	1.80	555
	32.00	32.00	2.40	2.11	473
	32.00	32.00	2.60	2.26	442
	32.00	32.00	2.90	2.48	403
	32.00	32.00	3.20	2.69	372
38 x 38	38.00	38.00	2.00	2.80	459
	38.00	38.00	2.40	2.57	390
	38.00	38.00	2.60	2.75	363
	38.00	38.00	2.90	3.03	330
	38.00	38.00	3.20	3.29	304
	38.00	38.00	3.60	3.63	276
40 x 40	40.00	40.00	2.60	2.92	343
	40.00	40.00	3.20	3.49	286
	40.00	40.00	3.60	3.85	260
	40.00	40.00	4.00	4.20	238
49.5 x 49.5	49.5	49.5	2.00	2.90	345
	49.5	49.5	2.40	3.43	291
	49.5?	49.5?	2.60	3.69	271
	49.5	49.5	2.90	4.07	245
	49.5	49.5	3.20	4.45	225
	49.5	49.5	3.60	4.93	203
	49.5	49.5	4.00	5.39	185
	49.5	49.5	4.50	5.95	168
60 x 60	60.00	60.00	2.00	3.56	281
	60.00	60.00	2.40	4.22	237
	60.00	60.00	2.60	4.55	220
	60.00	60.00	2.90	5.03	199
	60.00	60.00	3.20	5.50	182
	60.00	60.00	3.60	6.11	164
	60.00	60.00	4.00	6.71	149
	60.00	60.00	4.00	6.71	149
70 x 70	70.00	70.00	2.40	4.98	201
	70.00	70.00	2.60	5.37	186
	70.00	70.00	2.90	5.94	168
	70.00	70.00	3.20	6.51	154
	70.00	70.00	3.60	7.24	138
	70.00	70.00	4.00	7.97	126
	70.00	70.00	4.50	8.85	113
	70.00	70.00	4.50	8.85	113
72 x 72	72.00	72.00	3.20	6.71	149
	72.00	72.00	4.00	8.22	122
	72.00	72.00	4.80	9.66	103
	72.00	72.00	4.80	9.66	103
80 x 80	80.00	80.00	2.40	5.73	174
	80.00	80.00	2.60	6.18	162
	80.00	80.00	2.90	6.85	146
	80.00	80.00	3.20	7.51	133
	80.00	80.00	3.60	8.37	119
	80.00	80.00	4.00	9.22	108
	80.00	80.00	4.50	10.26	97
	80.00	80.00	4.50	10.26	97
91.5 x 91.5	91.5	91.5	3.6	9.67	103
	91.5	91.5	4.5	11.88	84
	91.5	91.5	5.4	14.01	71
100 x 100	100.00	100.00	3.20	9.52	105
	100.00	100.00	3.60	10.64	94
	100.00	100.00	4.00	11.73	85
	100.00	100.00	4.50	13.09	76
	100.00	100.00	4.80	13.88	72
	100.00	100.00	5.00	14.41	69
132 x 132	132.00	132.00	4.80	18.71	53
	132.00	132.00	5.40	20.88	48
150 x 150	150.00	150.00	5.0	22.26	45
	150.00	150.00	6.0	26.40	38

Rectangular Hollow Sections (RHS)

Section SHS (mm)	Depth D (mm)	Width B (mm)	Thickness T (mm)	Weight W (Kg / m)	Mtr. / Tonne
30 x 30	30.00	20.00	2.00	1.36	733
40 x 20	40.00	20.00	2.00	1.68	596
40 x 30	40.00	30.00	2.00	1.99	502
	40.00	30.00	2.40	2.34	427
	40.00	30.00	2.60	2.51	399
	40.00	30.00	2.90	2.75	363
	40.00	30.00	3.20	2.99	335
50 x 25	50.00	25.00	2.90	2.98	335
	50.00	25.00	3.20	3.24	309
50 x 30	50.00	30.00	2.00	2.31	434
	50.00	30.00	2.40	2.72	368
	50.00	30.00	2.60	2.92	343
	50.00	30.00	2.90	3.21	312
	50.00	30.00	3.20	3.49	286
	50.00	30.00	4.00	4.20	238
50 x 40	50.00	40.00	2.00	2.62	382
	50.00	40.00	2.40	3.09	323
	50.00	40.00	2.60	3.33	301
	50.00	40.00	2.90	3.66	273
	50.00	40.00	3.20	3.99	250
	50.00	40.00	4.00	4.83	207
66 x 33	66.00	33.00	2.90	4.07	245
	66.00	33.00	3.60	4.93	203
	66.00	33.00	4.50	5.95	168
60 x 40	60.00	40.00	2.00	2.93	341
	60.00	40.00	2.40	3.47	288
	60.00	40.00	2.60	3.73	268
	60.00	40.00	3.20	4.50	222
70 x 30	70.00	30.00	2.90	4.12	243
	70.00	30.00	3.20	4.50	222
	70.00	30.00	4.00	5.45	183
76 x 38	76.00	38.00	2.90	4.76	210
	76.00	38.00	3.20	5.20	192
	76.00	38.00	3.60	5.77	173
	76.00	38.00	4.00	6.33	158
80 x 40	80.00	40.00	2.90	5.03	199
	80.00	40.00	3.20	5.50	182
	80.00	40.00	4.00	6.71	149
80 x 50	80.00	50.00	2.90	5.49	182
	80.00	50.00	3.20	6.00	167
	80.00	50.00	3.60	6.68	150
	80.00	50.00	4.00	7.34	136
96 x 48	96.00	48.00	3.20	6.71	149
	96.00	48.00	4.00	8.22	122
	96.00	48.00	4.80	9.66	103
100 x 50	100.00	50.00	3.20	7.01	143
	100.00	50.00	3.60	7.81	128
	100.00	50.00	4.00	8.59	116
	100.00	50.00	4.50	9.55	105
115 x 60	115.00	60.00	3.20	8.26	121
	115.00	60.00	3.60	9.22	108
	115.00	60.00	4.00	10.16	98
	115.00	60.00	4.50	11.32	88
	115.00	60.00	4.80	12.00	83
	115.00	60.00	5.00	12.45	80
122 x 61	122.00	61.00	3.6	9.67	103
	122.00	61.00	4.5	11.88	84
	122.00	61.00	5.4	14.01	71
145 x 82	145.00	82.00	4.8	15.92	63
	145.00	82.00	5.4	17.74	56
172 x 92	172.00	92.00	4.8	18.71	56
	172.00	92.00	5.4	20.88	48

GRADE	T.S. (MIN) Mpa	Y.S. (MIN) Mpa	Elongation	
			25.4 mm & under	Over 25.4 mm
Yst - 210	330	210	12	20
Yst - 240	410	240	10	15
Yst - 310	450	310	8	10

Tolerance
 O.D. +/- 10%
 Thickness +/- 10%
 Weight - 8% + 10%
 Single Pipe - 8% + 10%
 On lots of 10 Tonne +/- 7.5%

1% With Minimum +/- 0.5 mm
 +/- 10%
 - 8% + 10%
 +/- 7.5%

ERW Steel Tubes for Idlers for Belt Conveyors

CONFORMING TO IS : 9295 - 1983 DIMENSIONS AND NOMINAL MASSES

Outside Diameter mm	Thickness mm	Mass kg / Mtr	Mtr / tone
63.50	3.65	5.39	186
	4.05	5.87	170
	4.50	6.55	153
	4.85	7.01	143
	5.40	7.74	129
76.10	3.65	6.52	153
	4.05	7.20	139
	4.50	7.95	126
	4.85	8.52	117
	5.40	9.41	106
88.90	4.05	8.47	118
	4.50	9.36	107
	4.85	10.05	99
	5.40	11.12	90
	6.30	12.83	78
101.60	4.05	9.74	103
	4.50	10.78	93
	4.85	11.57	86
	5.40	12.81	78
	6.30	14.81	68
108.0	4.05	10.38	96
	4.85	12.34	81
	6.30	15.80	63
114.30	4.50	12.19	82
	4.85	13.09	76
	5.40	14.50	69
	6.30	16.78	60
127.0	4.50	13.60	74
	4.85	14.61	68
	5.40	16.19	62
	6.30	18.75	53

Outside Diameter mm	Thickness mm	Mass kg / Mtr	Mtr / tone
133.0	4.50	14.30	70
	5.40	16.99	59
	6.30	19.69	51
139.70	4.50	15.00	67
	4.85	16.13	62
	5.40	17.90	56
152.40	6.30	20.73	48
	4.50	16.40	61
	4.85	17.65	57
	5.40	19.50	51
159.00	6.30	22.70	44
	4.50	17.10	58
	4.85	18.44	54
	5.40	20.46	49
165.10	6.30	23.72	42
	4.50	17.80	56
	4.85	19.17	52
	5.40	21.27	47
168.30	6.30	24.67	41
	4.50	18.20	55
	4.85	19.55	51
	5.40	21.69	46
193.70	6.30	25.17	40
	5.40	25.10	40
	6.30	29.12	34
219.10	5.40	28.50	35
	6.30	33.06	30

TOLERANCES

* Outside Diameter	+ / - 0.8%
* Ovality below 168.3mm OD	0.5 mm
* Ovality including 168.3mm and above	1.0 mm
* Weight Kg / Mtr : Single tube	+/- 10%
For truck load of ten tonne	+/- 7.5%
* Thickness	+/- 10%

Carbon Steel Tubes Suitable for Screwing

CONFORMING TO ISO : 65

DN	Designation of Thread	Outside Diameter ¹⁾ D mm	Thicknesses (T) and masses per unit length (M) according to the series											
			Heavy Series			Medium Series			Light Series 1			Light Series 2		
			T mm	Plain end M kg/m	Screwed Socketed M kg/m	T mm	Plain end M kg/m	Screwed Socketed M kg/m	T mm	Plain end M kg/m	Screwed Socketed M kg/m	T mm	Plain end M kg/m	Screwed Socketed M kg/m
15	1/2	21.3	3.2	1.44	1.45	2.6	1.21	1.22	2.3	1.09	1.09	2.0	0.947	0.956
20	3/4	26.9	3.2	1.87	1.88	2.6	1.56	1.57	2.3	1.39	1.40	2.3	1.38	1.39
02	1	33.7	4.0	2.93	2.95	3.2	2.41	2.43	2.9	2.20	2.22	2.6	1.98	2.00
32	1 1/4	42.4	4.0	3.97	3.82	3.2	3.10	3.13	2.9	2.82	2.85	2.6	2.54	2.57
40	1 1/4	48.3	4.0	4.37	4.41	3.2	3.56	3.60	2.9	3.24	3.28	2.9	3.23	3.27
50	2	60.3	4.5	6.19	6.26	3.6	5.03	5.10	3.2	4.49	4.56	2.9	4.08	4.15
65	2 1/2	76.1	4.5	7.93	8.05	3.6	6.42	6.54	3.2	5.73	5.85	3.2	5.71	5.83
80	3	88.9	5.0	10.3	10.5	4.0	8.36	8.53	3.6	7.55	7.72	3.2	6.72	6.89
100	4	114.3	5.4	14.5	14.8	4.5	12.2	12.5	4.0	10.8	11.1	3.6	9.75	10.0
125	5	139.7	5.4	17.9	18.4	5.0	16.6	17.1	-	-	-	-	-	-
150	6	165.12	5.4	21.3	21.9	5.0	19.8	20.4	-	-	-	-	-	-

Weight

Tolerances

Outer Diameter as per above table

Thickness

Light Series 1		Light Series 1	
+ Not Limited	-12.5%	+ Not Limited	-8%

Light Series 1		Light Series 1	
Single Tube	10 Tonn Load	Single Tube	10 Tonn Load
+ / - 10%	+ / - 7.5%	+10% -8%	+ / - 5%

Steel Tubes for Water Wells (Casing Pipes)

CONFORMING TO IS : 4270 / 2001

N.B. of Pipe MM	Outside Diameter	Thickness	Nominal Weight Black Tubes Plain End	
			kg/ m	m /tonne
100	114.3	5.4	14.5	69
125	141.3	5.4	18.1	55
		7.1	23.5	43
150	168.3	5.4	21.6	46
		7.1	28.2	35
175	193.7	6.4	29.6	34
		8.0	36.6	27
200	219.1	6.4	33.6	30
		8.0	41.6	24
225	244.5	7.1	41.6	24
		9.0	52.3	19
250	273.1	8.0	52.3	19
		10.0	64.9	15
300	323.9	8.0	62.3	16
		10.0	77.4	13
350	355.6	9.52	81.25	12
400	406.4	9.52	93.17	11

A. PHYSICAL PROPERTIES

Grade	Y. S. (min) MPa (kg/mm ²)	T. S. (min) MPa (kg/mm ²)	% age Elongation
Fe410	235	410	15
Fe450	275	450	13

B. TOLERANCE

1. Outside Diameter	1%
2. Thickness	
Welded tube Up to And including 406.4 MM	+15% } -12.5% }
Over 406.4 MM outside Diameter	+15% } -10% }
3. Weight Single Tube	- 8% + 10% + 10%



ASTM Pipes

PIPES CONFORMING TO ASTM A -53 GR A & B

DN	Outside Diameter	Wall Thickness	Mass of Plain End Pipe	Test Pressure	
				Grade A	Grade B
	mm	mm	Kg / mtr	Kpa x 1000	Kpa x 1000
15	21.3	2.77	1.27	4.8	4.8
20	26.7	2.87	1.69	4.8	4.8
25	33.4	3.38	2.5	4.8	4.8
32	42.2	3.56	3.39	8.3	9.0
40	48.3	3.68	4.05	8.3	9.0
50	60.3	3.91	5.44	15.9	17.2
65	73.0	5.16	8.63	17.2	17.2
80	88.9	5.49	11.29	15.3	17.2
90	101.6	5.74	13.57	14.0	16.3
100	114.3	6.02	16.07	13.1	15.2
125	141.3	6.55	21.77	11.5	13.4
150	168.3	7.11	28.26	10.5	12.3
200	219.1	8.18	42.55	9.2	10.8
250	273.0	9.27	60.29	8.4	9.9
300	323.8	9.52	73.78	7.31	8.5
350	355.6	9.52	81.25	6.6	7.7
400	406.4	9.52	93.17	5.8	6.8

Tolerances

Outside Diameter	Pipe size upto & including DN 40 Pipe size DN 50 or larger	+ / - 0.4 mm + / - 1%
Thickness		- 12.5% (max).
Weight		+ / - 10%
Galvanizing		
Minimum Average		490g/Sq Mtr. 550g/Sq Mtr.

Pipes In Customer Specified Thickness Can Also Be Supplied

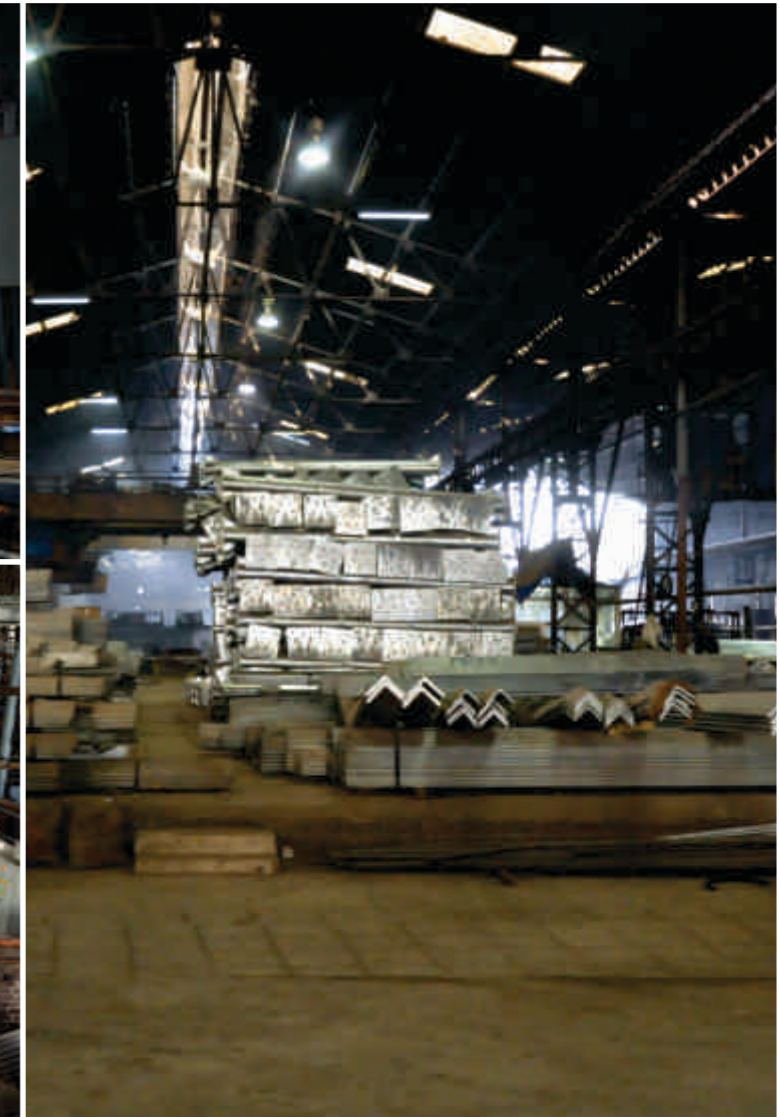
STEEL TUBES CONFORMING TO DIN 2440

Nominal Size DN	Size is Inch	OD MM	Wall Thickness	Outside Diameter		Mass P. E. Tube (kg/ mtr)	Mass Socked Tube (kg/ mtr)	Outside Diameter	
				Min (mm)	Max (mm)			Min (mm)	Max (mm)
15	½	21.3	2.65	21.8	21.0	1.22	1.23	26.4	34.0
20	¾	26.9	2.65	27.3	26.5	1.58	1.59	31.8	36.0
25	1	33.7	3.25	34.2	33.3	2.44	2.46	39.5	43.0
32	1 ¼	42.4	3.25	42.9	42.0	3.14	3.17	48.3	48.0
40	1 ½	48.3	3.25	48.8	47.9	3.61	3.65	54.5	48.0
50	2	60.3	3.65	60.8	59.7	5.10	5.17	66.3	56.0
65	2 ½	76.1	3.65	76.6	75.3	6.51	6.63	82.0	65.0
80	3	88.9	4.05	89.5	88.0	8.47	8.64	95.0	71.0
100	4	114.3	4.50	115.0	113.1	12.10	12.40	122.0	83.0
125	5	139.7	4.85	140.8	138.5	16.20	16.70	147.0	92.0
150	6	165.1	4.85	166.5	163.9	19.20	19.8	174.0	92.0

Material
St. 33-2 Confirming to DIN 17100
Galvanizing in accordance with Din 2444

Tolerance

Wall Thickness	-12.5%
Mass	
For single tube	+ / - 10%
For ten tonne lot	+ / -7.5%



CR/CRCA & GP/GC Sheets

Manufacturing Specifications

IS 513 EN 10051 JIS 3141
JIS 3132 DIN 1623 DIN 1614



1 RAW MATERIAL

Our integrated manufacturing processes starts with sourcing the best quality of Hot Rolled Coils. The consistent quality is maintained by our relationships with the most reliable suppliers of raw material. The main suppliers of HR Coils are Tata Steel, Steel Authority of India, Essar Steel, JSW, Bhushan etc. All these companies have their local stockyard at Ghaziabad for the timely delivery of material

2 PUSH/PULL PICKLING LINE

To ensure the right quality input of HR Coils to the mill, the Unit is equipped with advance technology Pickling Line. High pressure hot acid jet spray on strip removed scales of HR Coils & produces clean bright surface suitable for Cold Rolling and other processes.

3 COLD ROLLING

4 High Reversible Mills are designed and engineered with latest technology viz Hydraulic Automatic Gauge Control (AGC) for rolling in very close thickness tolerances, positive and negative roll bending for controlling the strip shape etc. Various other features are also part of Mill Management System for maintaining the consistency of product quality.

4 ANNEALING

Cold Rolled Coils are annealed under protective atmosphere for retaining the properties of material. Bell Annealing furnaces are installed for producing clean and bright strip having excellent metallurgical and surface properties.

5 SKIN PASS ROLLING/ TEMPER ROLLING

This process is carried out at the 4 Hi Mill with non reversible operation. Approx 1% to 5% reduction is applied on Annealed coils for preventing stretcher strain marking on strip. Bridle rolls are provided to enhance the process capability at Temper Rolling.

6 ROLL GRINDING

To ensure desired camber and surface of the rolls which consequently produces the excellent surface finish of the material as per the requirement.

7 FORWARD INTEGRATION

The Galvanized sheets & coils manufactured by the company have strong zinc adhesion and corrosion resistance achieved by applying a special coating of zinc & zinc alloys. Further the life of coating is enhanced by giving a special chemical treatment on the surface so as to prevent the attack of environmental pollutants.

“ Product Specifications ”

COLD ROLLED FULL HARD COILS / SHEETS

SPECIFICATIONS	:	JIS G 3141-SPCC-1B & other equivalent specifications
Thickness Range	:	0.140mm to 2.00mm
Hardness	:	90 to 98 HRB or 85 HRB Min.
Edge Condition	:	Smooth Mill Edges or Trimmed Edges as required.
Surface Finish	:	Bright



CRCA (COLD ROLLED CLOSE ANNEALED) COILS / SHEETS

Specifications	:	IS 513 (D, DD, EDD), JIS G 3141 (SPCC, SPCD, SPCE), DIN 1623 (ST12, ST13, ST14), BS 1449 ASTM
Thickness Range	:	0.30mm to 2.00mm (Further closed tolerances on request)
Width Range (mm)	:	50mm to 1000mm
Cut-to-length(mm)	:	Up to 3500 mm with tolerance of +2/-0mm
Coil Weight	:	3MT Max
Coil ID	:	508mm
Hardness	:	45 to 65 HRB (Max) for D/DD, 34/52 (Max) for EDD
Edge Condition	:	Trimmed Edges.
Surface Finish	:	Super Bright, Bright, Dull & Matt

Tolerances:

Thickness	Specified Thickness Over	(MM) Upto	Tolerances for Upto 250 Width (mm) (±)	Coil & Thickness Over 250 mm Width (mm) (±)
	0.14	0.19	0.015	0.015
	0.20	0.40	0.020	0.025
	0.40	0.80	0.025	0.030
	0.80	1.60	0.030	0.035
	1.60	2.00	0.035	0.055

Width (mm)	Specified Thickness (MM) Over	Upto	Tolerances for Coil & Thickness Upto 250 Width (mm) (±)	Over 250 mm Width (mm) (±)
	50	250	0.15	0.20
	250	600	0.20	0.25
	600	1050	0.40	0.50

GALVANIZED SPECIFICATIONS

JAPANESE IS
JIS G 3302 / SGCH IS-277

Coils And Sheets

Thickness	:	0.10 to 0.70 mm	Coating	:	90 gm - 300 gm / sq.m. (both sides)
Width	:	750 mm to 1000 mm	Coil inner diameter	:	508 mm
Outer diameter	:	1500 mm maximum	Coil Weight	:	12 MT maximum
Packet Weight	:	3 MT Max	Finish	:	Bright Regular
Cut to Length	:	4800mm (Max)			

Corrugation Details

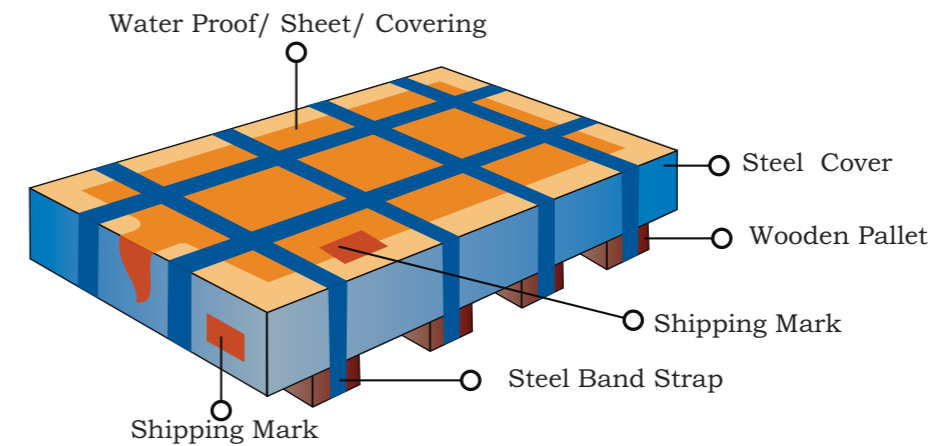
Width Before Corrugation(mm)	Width After Corrugation (mm)	Pitch (mm)	Depth (mm)	No. of Corrugations
750 / 762	660 / 665 720 / 740 /	75	17.5	8
900 / 914	750 / 760 / 780 / 800 / 810 / 830 /	65 to 85	12.5 to 20.5	10
1000	885/900/930	75	17.5	11



“ World Class Packaging ”

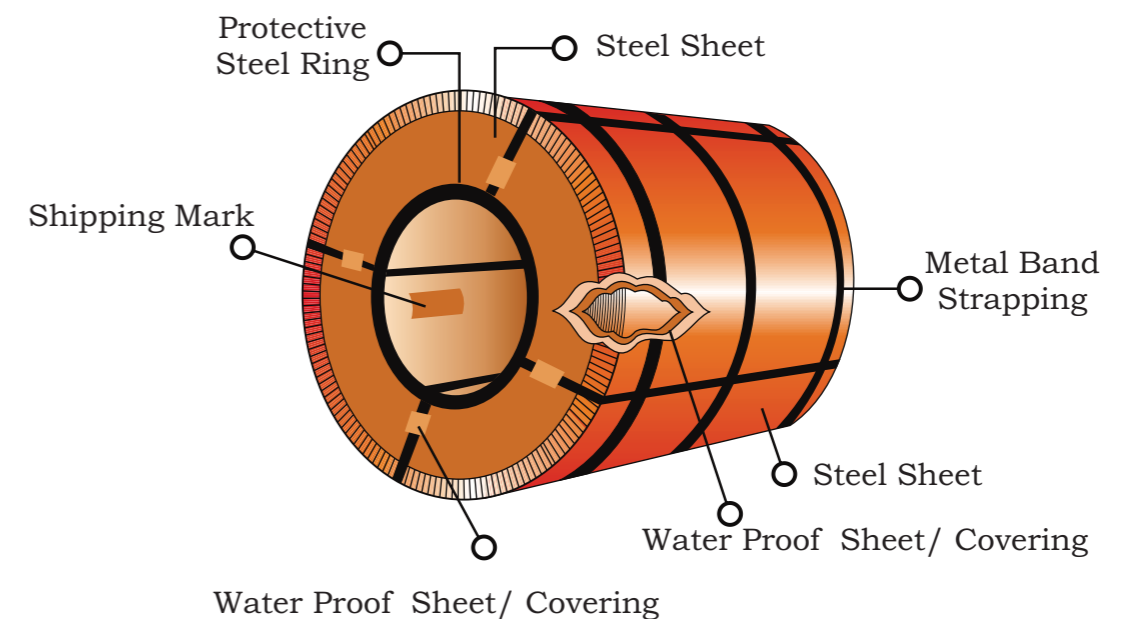
For Sheets

Sheets are wrapped in VCI/air bubble polythene and covered with GP/CR sheets by metal straps, edge protected and fastened on wooden skids.



For Coils

Each Coil is wrapped with VCI paper, covered with Galvanized sheets and edge protected. This packing is secure through three metal straps on the circumference and 4 - 5 straps through the eye of the Coil.



PACKING AS PER CUSTOMER'S REQUIREMENT CAN BE PROVIDED

“Power & Telecom Towers”

Transmission Line Tower (Up to 765 Kv), Sub-Station Gantry & Equipment Support Structures (Up to 765 Kv)
Solar PV Panel Support Structure, Pre-fabricated Steel Buildings & Custom Built Steel Structures, Pre-fabricated Heavy Steel Structure for Power Plant, Earthing Material, Swaged Pole



Transmission Towers

We are the leading manufacturer and exporter of Transmission Towers which are made up of quality galvanized steel. These towers are widely used for electric power transmission. Our experts are designing the towers as per the requirements of clients. We are offering towers at competitive prices which support sturdy construction, high performance and durability.

- High voltage transmission towers
- Grid towers
- Durable high performance

Approved By :

M/s Delhi Transco Limited, M/s HVPNL, M/s DVC, M/s KPTCL
M/s BHEL, M/s. PTCUL, M/s. MSETCL, M/s. GETCO etc.



Sub-station Structures

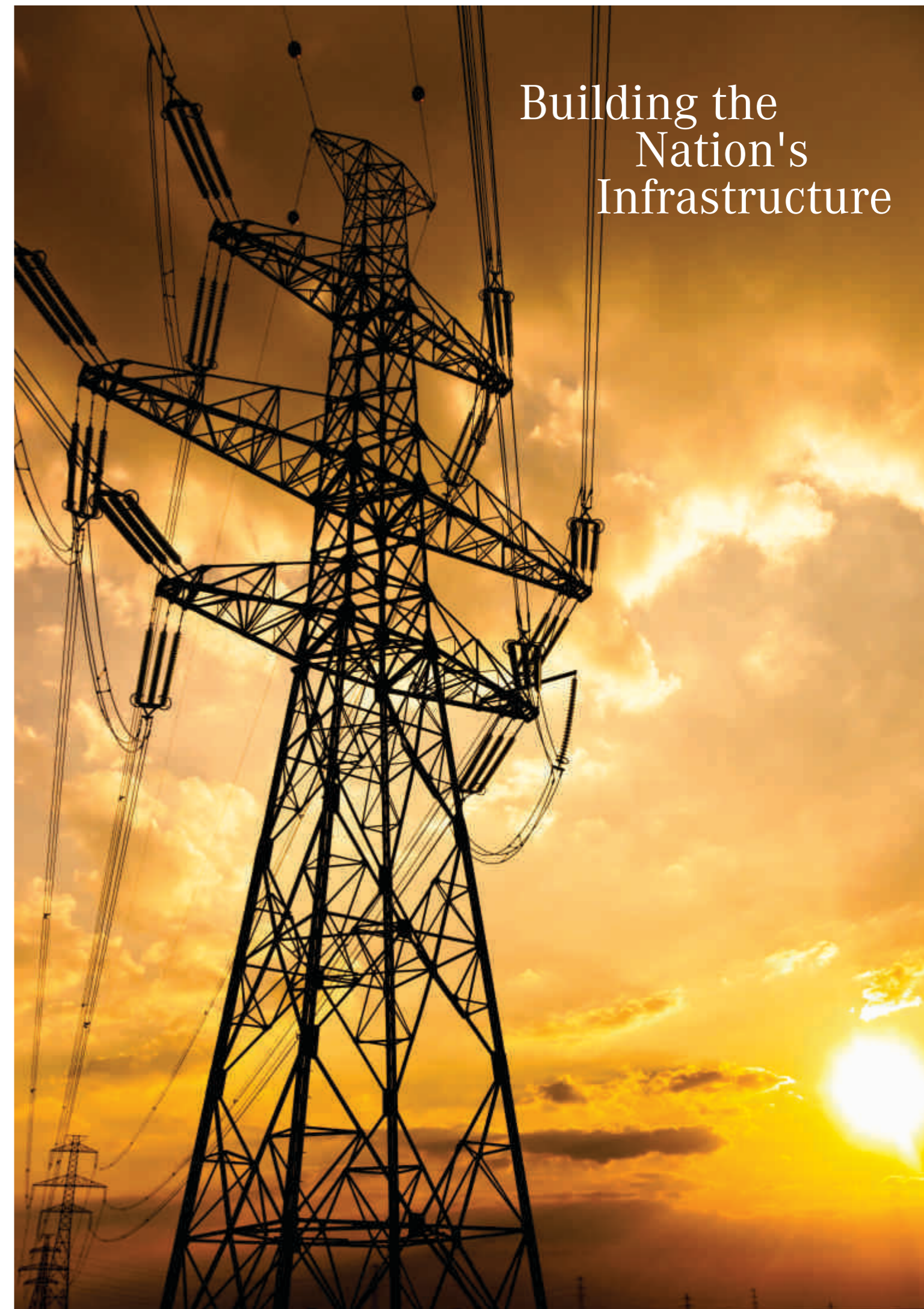
We manufacture and export a wide variety of Sub-station Structures to our clients. Our exclusive range of structures is especially designed to meet the requirements of Power sector for varied applications. Our experts monitor quality standards to ensure optimum quality. Moreover, we also customize our products as per our client's specifications. The services offered by us are made available at affordable rates.

- Equipment Support Structures
- Sub Station Structures from 11 Kv. to 765 Kv.

Approved By :

M/s. Power Grid Corporation of INDIA limited , M/s Delhi Transco Limited ,
M/s HVPNL , M/s DVC , M/s KPTCL , M/s BHEL , M/s. PTCUL , M/s. MSETCL , M/s.
GETCO , M/s UPPTCL , M/s HPSEB , M/s RRVPNL ,
M/s. MP GENCO , M/s. MSETCL , M/s. Torrent Power Ltd , M/s. Adani Power Limited,
M/s. Adhunik Power & Minerals Ltd. , M/s.

Building the Nation's Infrastructure



“Quality, Our mantra to Win Clients”

Quality Assurance begins at the raw material stage itself. Material is inspected for chemical composition and tested for other parameters like mechanical properties, gauge variation etc. for a total evaluation of the raw material to ascertain its suitability for the intended end-use-applications. At the surface-pickling operations, the material is checked for surface finish before it is fed into the tube mills.

At the tube mills, each product for the customer is processed according to the norms sequenced by the process control engineers based on stringent international standards and monitored through uncompromising quality control tests of every stage.

Towards this purpose, the engineers are guided by the latest equipment at our R&D centre where weld as well as parent materials & soundness is checked by conducting various tests such as yield, tensile, drift expansion, flattening, bend, impact test, etc, that include Leco Carbon apparatus, scanning electron microscope, atomic absorption emission spectrophotometer, universal microscope and micro hardness tester. These facilitate all the required metallurgical tests on the materials.

Flattening Test



Drift Test



Crushing Test



Drift Test



“Our Products are favoured by Clients Globally”



Exports

