







Knowledge Family Diversity People Contributing Poople



From The Chairman's Desk

"The journey of Mainawati was initiated very humbly in 1995 with a plant in Duhabi – Bhalua Municipality of Sunsari district (Nepal) for manufacturing ERW Steel Black & Galvanized Pipes targeting entire domestic market. With compettetive pricing, consistenet quality and diversified products we are regarded as a leader in steel tubes and fabricated items. The motivated & skilled workforce is our strength."







www.mainawatisteel.com

Mainawati Steel Industries is an industrial unit under Vishal Group. Vishal Group ltd. Is a leading commercial house of Nepal with a number of industrial & business units. Mainawati Steel Industries Pvt. Ltd. Is managed by board of directors which is headed by a chairman. Management of Mainawati Steel Industries has a long experience in industry and trading that is amply reflected in the proficiency by which the organization is being presently run. Mainawati Steel Industries was established in the year 1995. Ever since its inception, the company, adhering to the strict and rigorous norms that come with quality and consistent performance, has earned the status of becoming the country's leading manufacturer and exporter of a wide range of steel products. These products cover a variety of construction materials that include Steel Black Pipes, Plates, Galvanized Pipes, Steel Hollow Squares, Rectangular Sections, Cold Formed Angles & Channels, Steel Tubular and Telescopic Poles and Steel Towers which all conform to domestic standard norms and international specifications. From the time of its initiation, Mainawati Steel Industries has been living up to the challenging demands of supplying to local as well as export markets. The company's share in the local markets has witnessed a rising trend over the years and has helped the country by reducing dependence on costly imports and has, retroactively, saved precious







Mr. Trilok Agrawal, Chairman of Mainawati Steel Industries P. Ltd. is receiving NS Quality Award from Rt. Hon'ble Prime Minister Mr. Lokendra Bahadur Chanda in a special Function organised on the occasion of 33rd World Quality Day in November 21st, 2002. This News was published in the Gorkhapatra, the first National Daily of Nepal as main News.



काठमाडी २०४९ साल महसिर ४ गते विहीवार

मागं कच्चा दितीया



ययारोक्सा क्षेत्रावती हिट्स इन्तुरिट्स पा सि इवति सुनसरीका अध्यक्ष विमोकचन्द्र अपवासनाई एम एम स्वासिटी अवाई-२००२ प्रदान गर्नहरी

ACHIEVEMENT



Laurels And Awards: For Perseverance And Diligence

Owing to the superior and consistent quality of its process & Products, the company has been recognized for adhering to the following Standards & Certificatins:

- NS (Nepal Bureau of Standard)
- ISI (Bureau of Indian Standard)
- ISO 9001:2000 Accredited (International Standard Orgazination)

In the days to come, the Mainawati Steel Industries Pvt. Ltd. will continue to look beyond the horizons and will deliver nothing less than the best for its ever-growing clientele.

BRIDGE

Suspension Bridge

- Suspended
- Suspention
- Trus

Motorable TrussGirdar









PIPE

RECTANGULAR HOLLOW SECTION (RECTANGULAR PIPE)



Manufactured using finest quality of steel, Square and Rectangular Pipes are extensively used in welded steel frames which experience loads from multiple directions. The shapes of pipes suit multiple axis loading with having uniform geometry along with two or more cross section axes. This enhances the uniform strength of these pipes, making them better choice for columns. These are manufactured through the process where flat steel plate is slowly changed in shape to achieve round where the edges are presented to weld. Then, the edges are welded together to form the master tube. This master tube, which is also referred as mother tube goes through a sequence of shaping stands, which form the final square or rectangular shape.

GENERAL APPLICATIONS

- Industrial Sheds
- Steel Furniture
- Bridges
- Low cost Steel Housing
- Towers
- Airports
- Tripper/Trailer body
- Bus Body Structures
- Cranes

- Material Storage Racks
- Road Dividers
- Railway Wagon / Coaches
- Hoardings
- Machine Components & Frames
- Pre-fabricated House

Rectangular Hollow Section (RHS) as per IS 4923: 1997

Donath	\A/: -!# -	Thistones	\\/-:	Area of	Moment	of Inertia	Radius o	f Gyration	Elastic I	Modulus	Plastic I	Modulus	
Depth	Width	Thickness	Weight	Section	X - X	Y- Y	X - X	Y- Y	X - X	Y- Y	X - X	Y- Y	
mm	mm	mm	Kg./Mtr.	cm ²	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³	cm ³	cm ³	
40.0	25.0	1.60	1.50	1.91	4.02	1.93	1.45	1.01	2.01	1.55	2.49	1.80	
40.0	25.0	1.80	1.67	2.13	4.41	2.11	1.44	1.00	2.20	1.69	2.75	1.98	
40.0	25.0	2.00	1.83	2.34	4.77	2.28	1.43	0.99	2.39	1.82	2.99	2.16	
40.0	25.0	2.20	2.00	2.54	5.11	2.43	1.42	0.98	2.55	1.95	3.23	2.32	
40.0	25.0	2.40	2.15	2.74	5.42	2.58	1.41	0.97	2.71	2.06	3.45	2.48	
40.0	25.0	2.70	2.38	3.03	5.85	2.77	1.39	0.96	2.93	2.21	3.77	2.70	
40.0	25.0	3.00	2.60	3.31	6.24	2.94	1.37	0.94	3.12	2.35	4.06	2.90	
40.0	25.0	3.20	2.74	3.49	6.46	3.04	1.36	0.93	3.23	2.43	4.24	3.03	
50.0	25.0	1.60	1.75	2.23	7.02	2.37	1.77	1.03	2.81	1.90	3.53	2.17	
50.0	25.0	1.80	1.95	2.49	7.72	2.60	1.76	1.02	3.09	2.08	3.90	2.40	
50.0	25.0	2.00	2.15	2.74	8.38	2.81	1.75	1.01	3.35	2.25	4.26	2.62	
50.0	25.0	2.20	2.34	2.98	9.01	3.01	1.74	1.00	3.60	2.41	4.61	2.82	
50.0	25.0	2.40	2.53	3.22	9.60	3.19	1.73	1.00	3.84	2.55	4.94	3.02	
50.0	25.0	2.70	2.80	3.57	10.42	3.44	1.71	0.98	4.17	2.75	5.42	3.30	
50.0	25.0	3.00	3.07	3.91	11.17	3.67	1.69	0.97	4.47	2.93	5.86	3.56	
50.0	25.0	3.20	3.24	4.13	11.63	3.80	1.68	0.96	4.65	3.04	6.14	3.73	
66.0	33.0	1.60	2.35	3.00	16.85	5.74	2.37	1.38	5.11	3.48	6.34	3.92	
66.0	33.0	1.80	2.63	3.35	18.64	6.33	2.36	1.37	5.65	3.84	7.04	4.35	
66.0	33.0	2.00	2.90	3.70	20.37	6.90	2.35	1.37	6.17	4.18	7.73	4.77	
66.0	33.0	2.20	3.17	4.04	22.03	7.43	2.34	1.36	6.67	4.51	8.40	5.17	
66.0	33.0	2.40	3.43	4.37	23.62	7.95	2.32	1.35	7.16	4.82	9.05	5.56	
66.0	33.0	2.70	3.82	4.87	25.89	8.67	2.31	1.33	7.85	5.25	9.99	6.13	
66.0	33.0	3.00	4.20	5.35	28.02	9.34	2.29	1.32	8.49	5.66	10.88	6.66	
66.0	33.0	3.20	4.44	5.66	29.36	9.75	2.28	1.31	8.90	5.91	11.46	7.01	
80.0	40.0	1.60	2.88	3.67	30.71	10.52	2.89	1.69	7.68	5.26	9.47	5.87	
80.0	40.0	1.80	3.22	4.11	34.08	11.64	2.88	1.68	8.52	5.82	10.55	6.53	
80.0	40.0	2.00	3.56	4.54	37.35	12.72	2.87	1.67	9.34	6.36	11.61	7.17	
80.0	40.0	2.20	3.89	4.96	40.53	13.76	2.86	1.67	10.13	6.88	12.64	7.80	
80.0	40.0	2.40	4.22	5.38	43.60	14.77	2.85	1.66	10.90	7.38	13.65	8.42	
80.0	40.0	2.70	4.71	6.00	48.03	16.20	2.83	1.64	12.01	8.10	15.12	9.31	
80.0	40.0	3.00	5.19	6.61	52.25	17.55	2.81	1.63	13.06	8.78	16.54	10.16	
80.0	40.0	3.20	5.50	7.01	54.94	18.41	2.80	1.62	13.73	9.21	17.46	10.71	

Donth	Width	Thickness	Weight	Area of	Moment	of Inertia	Radius o	f Gyration	Elastic	Modulus	Plastic Modulus	
Depth	vviatn	Inickness	Weight	Section	X - X	Y- Y	X - X	Y- Y	X - X	Y- Y	X - X	Y- Y
mm	mm	mm	Kg./Mtr.	cm ²	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³	cm ³	cm ³
96.0	48.0	1.60	3.49	4.44	54.03	18.57	3.49	2.05	11.26	7.74	13.82	8.58
96.0	48.0	1.80	3.90	4.97	60.11	20.61	3.48	2.04	12.52	8.59	15.42	9.56
96.0	48.0	2.00	4.31	5.50	66.04	22.59	3.47	2.03	13.76	9.41	17.00	10.52
96.0	48.0	2.20	4.72	6.02	71.82	24.51	3.45	2.02	14.96	10.21	18.54	11.47
96.0	48.0	2.40	5.13	6.53	77.46	26.38	3.44	2.01	16.14	10.99	20.06	12.40
96.0	48.0	2.70	5.73	7.30	85.65	29.07	3.43	2.00	17.84	12.11	22.28	13.75
96.0	48.0	3.00	6.32	8.05	93.52	31.64	3.41	1.98	19.48	13.18	24.44	15.06
96.0	48.0	3.40	7.09	9.03	103.54	34.87	3.39	1.96	21.57	14.53	27.23	16.75
122.0	61.0	1.60	4.46	5.69	113.02	38.99	4.46	2.62	18.53	12.78	22.64	14.07
122.0	61.0	1.80	5.00	6.37	126.04	43.41	4.45	2.61	20.66	14.23	25.31	15.71
122.0	61.0	2.00	5.54	7.06	138.82	47.72	4.44	2.60	22.76	15.65	27.94	17.33
122.0	61.0	2.20	6.07	7.73	151.36	51.94	4.42	2.59	24.81	17.03	30.53	18.93
122.0	61.0	2.40	6.60	8.40	163.67	56.06	4.41	2.58	26.83	18.38	33.09	20.50
122.0	61.0	2.70	7.38	9.40	181.68	62.06	4.40	2.57	29.78	20.35	36.87	22.81
122.0	61.0	3.00	8.15	10.39	199.17	67.86	4.38	2.56	32.65	22.25	40.56	25.07
122.0	61.0	3.40	9.17	11.68	221.68	75.26	4.36	2.54	36.34	24.67	45.36	28.00
145.0	82.0	2.00	6.92	8.82	255.77	106.94	5.39	3.48	35.28	26.08	42.59	28.86
145.0	82.0	2.20	7.59	9.67	279.37	111.67	5.38	3.47	38.53	28.46	46.61	31.57
145.0	82.0	2.40	8.26	10.52	302.63	126.24	5.36	3.46	41.74	30.79	50.58	34.25
145.0	82.0	2.70	9.25	11.78	336.87	140.29	5.35	3.45	46.46	34.22	56.46	38.21
145.0	82.0	3.00	10.23	13.03	370.32	153.96	5.33	3.44	51.08	37.55	62.24	42.09
145.0	82.0	3.40	11.52	14.68	413.74	171.63	5.31	3.42	57.07	41.86	69.8	47.16
145.0	82.0	3.70	12.48	15.90	445.41	184.45	5.29	3.41	61.44	44.99	75.36	50.88
145.0	82.0	4.20	14.06	17.91	496.52	205.05	5.27	3.38	68.48	50.01	84.41	56.93
145.0	82.0	4.50	14.99	19.10	526.19	216.94	5.25	3.37	72.58	52.91	89.72	60.46
145.0	82.0	4.80	15.92	20.28	555.12	228.49	5.23	3.36	76.57	55.73	94.93	63.93
172.0	92.0	2.00	8.08	10.30	416.38	159.91	6.36	3.94	48.42	34.76	58.62	38.23
172.0	92.0	2.20	8.87	11.30	455.27	174.66	6.35	3.93	52.94	37.97	64.20	41.85
172.0	92.0	2.40	9.65	12.29	493.67	189.18	6.34	3.92	57.40	41.13	69.72	45.43
172.0	92.0	2.70	10.81	13.78	550.36	210.56	6.32	3.91	64.00	45.77	77.92	50.74
172.0	92.0	3.00	11.97	15.25	605.95	231.45	6.30	3.90	70.46	50.32	85.99	55.96
172.0	92.0	3.40	13.50	17.19	678.40	258.56	6.28	3.88	78.88	56.21	96.59	62.80
172.0	92.0	3.70	14.63	18.64	731.48	278.34	6.27	3.86	85.06	60.51	104.40	67.84
172.0	92.0	4.30	16.87	21.49	834.46	316.50	6.23	3.84	97.03	68.80	119.68	77.66
172.0	92.0	4.50	17.61	22.43	867.85	328.81	6.22	3.83	100.91	71.48	124.68	80.87
172.0	92.0	4.80	18.70	23.83	917.06	346.89	6.20	3.82	106.64	75.41	132.07	85.61

Size	Wall Thickness	Area of Cross Section	Unit Weight		nent ertia		f Gyration D ³ - bd ³)	Section	Modulus
DXB	t	Α	M	I _{xx}	l _{yy}	r _{xx}	r _{yy}	Z _{xx}	z _{yy}
mm	mm	cm ²	kg/m	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³
	1.4	2.02	1.59	6.59	2.21	1.81	1.04	2.64	0.88
	1.6	2.30	1.80	7.42	2.47	1.80	1.04	2.97	0.99
	1.8	2.57	2.02	8.23	2.72	1.79	1.03	3.29	1.09
5005	2	2.84	2.23	9.01	2.96	1.78	1.02	3.60	1.18
50x25	2.2	3.11	2.44	9.76	3.19	1.77	1.01	3.91	1.28
	2.4	3.37	2.65	10.50	3.41	1.76	1.01	4.20	1.36
	2.7	3.76	2.95	11.55	3.71	1.75	0.99	4.62	1.48
	3	4.14	3.25	12.55	4.00	1.74	0.98	5.02	1.60
	1.6	3.74	2.93	31.75	10.77	2.91	1.70	7.94	2.69
	1.8	4.19	3.29	35.40	11.96	2.91	1.69	8.85	2.99
	2	4.64	3.64	38.97	13.12	2.90	1.68	9.74	3.28
	2.2	5.09	3.99	42.48	14.24	2.89	1.67	10.62	3.56
80x40	2.4	5.53	4.34	45.92	15.34	2.88	1.67	11.48	3.83
	2.6	5.97	4.69	49.30	16.40	2.87	1.66	12.32	4.10
	2.7	6.19	4.86	50.96	16.92	2.87	1.65	12.74	4.23
	3	6.84	5.37	55.85	18.43	2.86	1.64	13.96	4.61
	3.4	7.70	6.04	62.15	20.34	2.84	1.63	15.54	5.09
	1.6	4.51	3.54	55.53	18.94	3.51	2.05	11.57	3.95
	1.8	5.05	3.97	62.01	21.08	3.50	2.04	12.92	4.39
	2	5.60	4.40	68.38	23.17	3.49	2.03	14.24	4.83
	2.2	6.14	4.82	74.65	25.21	3.49	2.03	15.55	5.25
96x48	2.4	6.68	5.25	80.82	27.20	3.48	2.02	16.84	5.67
	2.6	7.22	5.67	86.89	29.15	3.47	2.01	18.10	6.07
	2.7	7.48	5.88	89.89	30.11	3.47	2.01	18.73	6.27
	3	8.28	6.50	98.74	32.91	3.45	1.99	20.57	6.86
	3.4	9.33	7.32	110.22	36.49	3.44	1.98	22.96	7.60
	2	7.16	5.62	142.62	48.66	4.46	2.61	23.38	7.98
	2.2	7.86	6.17	155.95	53.07	4.45	2.60	25.57	8.70
	2.4	8.55	6.71	169.11	57.40	4.45	2.59	27.72	9.41
	2.6	9.25	7.26	182.12	61.66	4.44	2.58	29.86	10.11
122x61	2.7	9.59	7.53	188.56	63.75	4.43	2.58	30.91	10.45
	3	10.62	8.34	207.65	69.93	4.42	2.57	34.04	11.46
	3.4	11.98	9.41	232.54	77.91	4.41	2.55	38.12	12.77
	3.7	12.99	10.20	250.80	83.70	4.39	2.54	41.11	13.72
	4.3	15.00	11.77	286.28	94.80	4.37	2.51	46.93	15.54



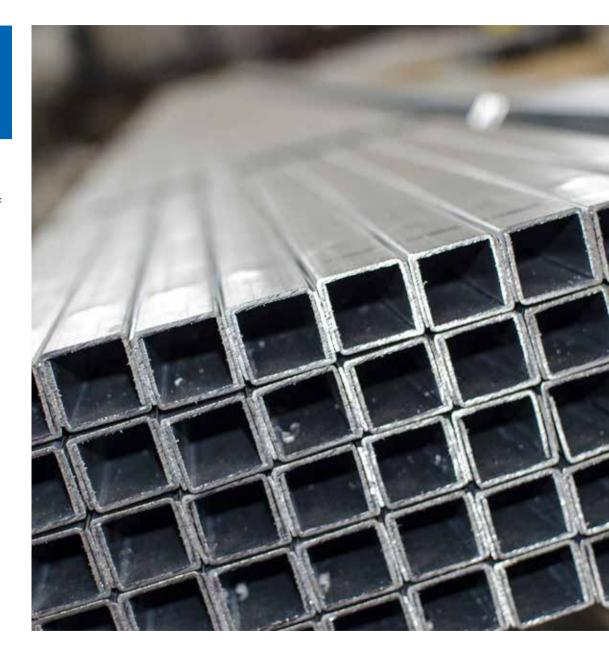
SQUARE HOLLOW SECTION (SQUARE PIPE)

Manufactured using finest quality of steel, Square and Rectangular Pipes are extensively used in welded steel frames which experience loads from multiple directions. The shapes of pipes suit multiple axis loading with having uniform geometry along with two or more cross section axes. This enhances the uniform strength of these pipes, making them better choice for columns. These are manufactured through the process where flat steel plate is slowly changed in shape to achieve round where the edges are presented to weld. Then, the edges are welded together to form the master tube. This master tube, which is POLES & PIPES also referred as mother tube goes through a sequence of shaping stands, which form the final square or rectangular shape.

GENERAL APPLICATIONS

- Industrial Sheds
- Steel Furniture
- Bridges
- · Low cost Steel Housing
- Towers
- Airports
- Tripper/Trailer body
- Bus Body Structures

- Cranes
- Material Storage Racks
- Road Dividers
- Railway Wagon / Coaches
- Hoardings
- Machine Components & Frames
- Pre-fabricated House



Square Hollow Section (SHS) as per IS 4923 : 1997

Depth	Width	Thick- ness	Weight	Area of Section	Moment of Inertia	Radius of Gyration	Elastic Modulus	Plastic Modulus
mm	mm	mm	Kg./Mtr.	cm ²	cm ⁴	cm	cm ³	cm ³
20.0	20.0	1.60	0.87	1.11	0.61	0.74	0.61	0.75
20.0	20.0	1.80	0.96	1.23	0.65	0.73	0.65	0.82
20.0	20.0	2.00	1.05	1.34	0.69	0.72	0.69	0.88
20.0	20.0	2.20	1.13	1.44	0.73	0.71	0.73	0.93
20.0	20.0	2.40	1.21	1.54	0.75	0.70	0.75	0.98
20.0	20.0	2.70	1.32	1.68	0.79	0.68	0.79	1.04
20.0	20.0	3.00	1.42	1.81	0.81	0.67	0.81	1.10
25.0	25.0	1.60	1.12	1.43	1.28	0.94	1.02	1.24
25.0	25.0	1.80	1.25	1.59	1.38	0.93	1.11	1.35
25.0	25.0	2.00	1.36	1.74	1.48	0.92	1.19	1.47
25.0	25.0	2.20	1.48	1.88	1.57	0.91	1.26	1.57
25.0	25.0	2.40	1.59	2.02	1.65	0.90	1.32	1.67
25.0	25.0	2.70	1.74	2.22	1.76	0.89	1.41	1.80
25.0	25.0	3.00	1.89	2.41	1.84	0.87	1.47	1.91
32.0	32.0	1.60	1.48	1.88	2.84	1.23	1.78	2.12
32.0	32.0	1.80	1.64	2.09	3.11	1.22	1.95	2.33
32.0	32.0	2.00	1.80	2.30	3.36	1.21	2.10	2.54
32.0	32.0	2.20	1.96	2.50	3.60	1.20	2.25	2.74
32.0	32.0	2.40	2.11	2.69	3.82	1.19	2.39	2.93
32.0	32.0	2.70	2.34	2.98	4.12	1.18	2.57	3.2
32.0	32.0	3.00	2.55	3.25	4.38	1.16	2.74	3.44
32.0	32.0	3.20	2.69	3.42	4.54	1.15	2.83	3.59
38.0	38.0	1.60	1.78	2.26	4.92	1.47	2.59	3.06
38.0	38.0	1.80	1.98	2.52	5.42	1.47	2.85	3.39
38.0	38.0	2.00	2.18	2.78	5.88	1.46	3.10	3.70
38.0	38.0	2.20	2.38	3.03	6.32	1.45	3.33	4.00
38.0	38.0	2.40	2.57	3.27	6.74	1.44	3.55	4.29
38.0	38.0	2.70	2.85	3.62	7.32	1.42	3.85	4.71
38.0	38.0	3.00	3.11	3.97	7.85	1.41	4.13	5.10
38.0	38.0	3.20	3.29	4.19	8.18	1.40	4.30	5.34

Depth	Width	Thick- ness	Weight	Area of Section	Moment of Inertia	Radius of Gyration	Elastic Modulus	Plastic Modulus
mm	mm	mm	Kg./Mtr.	cm ²	cm ⁴	cm	cm ³	cm ³
49.5	49.5	1.60	2.35	3.00	11.34	1.94	4.58	5.35
49.5	49.5	1.80	2.63	3.35	12.54	1.93	5.07	5.94
49.5	49.5	2.00	2.90	3.70	13.70	1.93	5.54	6.52
49.5	49.5	2.20	3.17	4.04	14.82	1.92	5.99	7.08
49.5	49.5	2.40	3.43	4.37	15.89	1.91	6.42	7.63
49.5	49.5	2.70	3.82	4.87	17.41	1.89	7.03	8.42
49.5	49.5	3.00	4.20	5.35	18.84	1.88	7.61	9.18
49.5	49.5	3.40	4.69	5.97	20.60	1.86	8.32	10.14
60.0	60.0	1.60	2.88	3.67	20.68	2.37	6.89	7.99
60.0	60.0	1.80	3.22	4.11	22.94	2.36	7.65	8.90
60.0	60.0	2.00	3.56	4.54	25.14	2.35	8.38	9.79
60.0	60.0	2.20	3.89	4.96	27.27	2.34	9.09	10.66
60.0	60.0	2.40	4.22	5.38	29.33	2.33	9.78	11.51
60.0	60.0	2.70	4.71	6.00	32.31	2.32	10.77	12.75
60.0	60.0	3.00	5.19	6.61	35.13	2.31	11.71	13.95
60.0	60.0	3.40	5.81	7.40	38.68	2.29	12.89	15.48
72.0	72.0	1.60	3.49	4.44	36.40	2.86	10.11	11.66
72.0	72.0	1.80	3.90	4.97	40.48	2.85	11.24	13.01
72.0	72.0	2.00	4.31	5.50	44.46	2.84	12.35	14.34
72.0	72.0	2.20	4.72	6.02	48.35	2.83	13.43	15.64
72.0	72.0	2.40	5.13	6.53	52.13	2.82	14.48	16.92
72.0	72.0	2.70	5.73	7.30	57.63	2.81	16.01	18.79
72.0	72.0	3.00	6.32	8.05	62.91	2.80	17.48	20.62
72.0	72.0	3.40	7.09	9.03	69.63	2.78	19.34	22.97
72.0	72.0	3.70	7.66	9.76	74.43	2.76	20.67	24.67
72.0	72.0	4.20	8.58	10.94	81.97	2.74	22.77	27.40
91.5	91.5	2.00	5.54	7.06	93.51	3.64	20.44	23.57
91.5	91.5	2.20	6.07	7.73	101.94	3.63	22.28	25.76
91.5	91.5	2.40	6.60	8.40	110.21	3.62	24.09	27.91
91.5	91.5	2.70	7.38	9.40	122.31	3.61	26.73	31.10



Depth	Width	Thick- ness	Weight	Area of Section	Moment of Inertia	Radius of Gyration	Elastic Modulus	Plastic Modulus
mm	mm	mm	Kg./Mtr.	cm ²	cm ⁴	cm	cm ³	cm ³
91.5	91.5	3.00	8.15	10.39	134.05	3.59	29.30	34.21
91.5	91.5	3.40	9.17	11.68	149.16	3.57	32.60	38.26
91.5	91.5	3.70	9.92	12.64	160.09	3.56	34.99	41.22
91.5	91.5	4.30	11.40	14.52	180.92	3.53	39.54	46.94
91.5	91.5	4.50	11.88	15.14	187.56	3.52	41.00	48.79
113.5	113.5	2.00	6.92	8.82	181.61	4.54	32.00	36.72
113.5	113.5	2.20	7.59	9.67	198.33	4.53	34.95	40.18
113.5	113.5	2.40	8.26	10.52	214.81	4.52	37.85	43.61
113.5	113.5	2.70	9.25	11.78	239.04	4.51	42.12	48.67
113.5	113.5	3.00	10.23	13.03	262.72	4.49	46.29	53.66
113.5	113.5	3.40	11.52	14.68	293.42	4.47	51.70	60.17
113.5	113.5	3.70	12.48	15.90	315.81	4.46	55.65	64.96
113.5	113.5	4.30	14.37	18.31	358.95	4.43	63.25	74.29
113.5	113.5	4.50	14.99	19.10	372.86	4.42	65.70	77.32
113.5	113.5	4.80	15.92	20.28	393.28	4.40	69.30	81.81
132.0	132.0	2.00	8.08	10.30	288.56	5.29	43.72	50.03
132.0	132.0	2.40	9.65	12.29	342.02	5.27	51.82	59.50
132.0	132.0	2.70	10.81	13.78	381.21	5.26	57.76	66.49
132.0	132.0	3.00	11.97	15.25	419.63	5.25	63.58	73.38
132.0	132.0	3.40	13.50	17.19	469.67	5.23	71.16	82.41
132.0	132.0	3.70	14.63	18.64	506.32	5.21	76.72	89.08
132.0	132.0	4.30	16.87	21.49	577.39	5.18	87.48	102.11
132.0	132.0	4.50	17.61	22.43	600.42	5.17	90.97	106.37
132.0	132.0	4.80	18.70	23.83	634.36	5.16	96.11	112.68

Tolerances:

Outside Diameter : $\pm 1\%$ with a minimum of ± 0.50 mm.

SQUARE HOLLOW SECTION (SQUARE PIPE)



Si	ize	Wall Thickness	Area of Cross Section	Unit Weight		of Inertia od ³)/12	Radius of SQRT(BD (BD		Section Modulus (BD³-bd³)/6D	
D	хв	t	Α	М	I _{xx}	l _{yy}	r _{xx}	r _{yy}	Z _{xx}	z _{yy}
Inch	mm	mm	cm ²	kg/m	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³
		1.2	0.90	0.71	0.53	0.53	0.77	0.77	0.53	0.53
		1.4	1.04	0.82	0.60	0.60	0.76	0.76	0.60	0.60
		1.6	1.18	0.92	0.67	0.67	0.75	0.75	0.67	0.67
3/4	20x20	1.8	1.31	1.03	0.73	0.73	0.75	0.75	0.73	0.73
		2	1.44	1.13	0.79	0.79	0.74	0.74	0.79	0.79
		2.1	1.50	1.18	0.81	0.81	0.74	0.74	0.81	0.81
		2.2	1.57	1.23	0.84	0.84	0.73	0.73	0.84	0.84
		1.2	1.14	0.90	1.08	1.08	0.97	0.97	0.86	0.86
		1.4	1.32	1.04	1.23	1.23	0.97	0.97	0.98	0.98
		1.6	1.50	1.18	1.37	1.37	0.96	0.96	1.10	1.10
		1.8	1.67	1.31	1.51	1.51	0.95	0.95	1.21	1.21
		2	1.84	1.44	1.63	1.63	0.94	0.94	1.31	1.31
1	25x25	2.1	1.92	1.51	1.70	1.70	0.94	0.94	1.36	1.36
	20,20	2.2	2.01	1.58	1.75	1.75	0.94	0.94	1.40	1.40
		2.4	2.17	1.70	1.87	1.87	0.93	0.93	1.49	1.49
		2.5	2.25	1.77	1.92	1.92	0.92	0.92	1.54	1.54
		2.6	2.33	1.83	1.97	1.97	0.92	0.92	1.58	1.58
		2.7	2.41	1.89	2.03	2.03	0.92	0.92	1.62	1.62
		1.2	1.77	1.39	3.99	3.99	1.50	1.50	2.10	2.10
		1.4	2.05	1.61	4.58	4.58	1.50	1.50	2.41	2.41
		1.6	2.33	1.83	5.15	5.15	1.49	1.49	2.71	2.71
		1.8	2.61	2.05	5.71	5.71	1.48	1.48	3.00	3.00
		2	2.88	2.26	6.24	6.24	1.47	1.47	3.28	3.28
		2.1	3.02	2.37	6.50	6.50	1.47	1.47	3.42	3.42
1.5	38x38	2.2	3.15	2.47	6.75	6.75	1.46	1.46	3.56	3.56
1.5	30,30	2.4	3.42	2.68	7.25	7.25	1.46	1.46	3.82	3.82
		2.6	3.68	2.89	7.73	7.73	1.45	1.45	4.07	4.07
		2.7	3.81	2.99	7.96	7.96	1.45	1.45	4.19	4.19
		2.9	4.07	3.20	8.42	8.42	1.44	1.44	4.43	4.43
		3	4.20	3.30	8.64	8.64	1.43	1.43	4.55	4.55
		3.1	4.33	3.40	8.85	8.85	1.43	1.43	4.66	4.66
		3.2	4.45	3.50	9.07	9.07	1.43	1.43	4.77	4.77



S	iize	Wall Thickness	Area of Cross Section	Unit Weight		ent of Inertia Radius of Gyr SQRT(BD³-bd 3³-bd³)/12 (BD-bd)		³ -bd ³) /12	Section Modulus (BD³-bd³)/6D	
D	ХВ	t	Α	М	I _{xx}	l _{yy}	r _{xx}	r _{yy}	Z _{xx}	z _{yy}
Inch	mm	mm	cm ²	kg/m	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³
		1.4	2.72	2.14	10.72	10.72	1.98	1.98	4.29	4.29
		1.6	3.10	2.43	12.11	12.11	1.98	1.98	4.84	4.84
		1.8	3.47	2.72	13.46	13.46	1.97	1.97	5.38	5.38
		2	3.84	3.01	14.77	14.77	1.96	1.96	5.91	5.91
		2.1	4.02	3.16	15.42	15.42	1.96	1.96	6.17	6.17
		2.2	4.21	3.30	16.05	16.05	1.95	1.95	6.42	6.42
2	50x50	2.4	4.57	3.59	17.30	17.30	1.95	1.95	6.92	6.92
		2.6	4.93	3.87	18.51	18.51	1.94	1.94	7.41	7.41
		2.7	5.11	4.01	19.11	19.11	1.93	1.93	7.64	7.64
		2.9	5.46	4.29	20.28	20.28	1.93	1.93	8.11	8.11
		3	5.64	4.43	20.85	20.85	1.92	1.92	8.34	8.34
		3.1	5.82	4.57	21.41	21.41	1.92	1.92	8.57	8.57
		3.2	5.99	4.70	21.97	21.97	1.92	1.92	8.79	8.79
		1.6	4.51	3.54	37.24	37.24	2.87	0.39	10.34	10.34
		1.8	5.05	3.97	41.54	41.54	2.87	0.37	11.54	11.54
		2	5.60	4.40	45.77	45.77	2.86	0.35	12.71	12.71
		2.2	6.14	4.82	49.93	49.93	2.85	0.33	13.87	13.87
3	72x72	2.4	6.68	5.25	54.01	54.01	2.84	0.32	15.00	15.00
3	12X12	2.6	7.22	5.67	58.02	58.02	2.84	0.30	16.12	16.12
		2.7	7.48	5.88	60.00	60.00	2.83	0.30	16.67	16.67
		3	8.28	6.50	65.83	65.83	2.82	0.28	18.29	18.29
		3.2	8.81	6.91	69.62	69.62	2.81	0.27	19.34	19.34
		3.5	9.59	7.53	75.19	75.19	2.80	0.26	20.89	20.89





STEEL TELESCOPIC POLE





					SPECIFICATION				
Description	Top OD mm	Bottom Od mm	THK. mm	No. of Section	TOTAL LENGTH mm	WEIGHT kg	Design Working Load kgf	Yield Strength MPA	Safaty of factor
Steel Telescopic pole 8.0M	150.00	350.00	2.50	4.00	2300.00	155.00	150.00	275.00	2.00
Steel Telescopic pole9.0M	170.00	360.00	2.50	5.00	2100.00	189.00	200.00	275.00	2.00
Steel Telescopic pole9.0M	90.00	300.00	2.00	4.00	2500.00	111.00	200.00	330.00	2.00
Steel Telescopic pole 10.0M	170.00	380.00	2.50	5.00	2300.00	215.00	350.00	275.00	2.00
Steel Telescopic pole11.0M	170.00	405.00	2.50	5.00	2500.00	245.00	350.00	275.00	2.00
Steel Telescopic pole11.0M	151.00	409.00	2.0 - 2.2	5.00	2500.00	208.00	350.00	330.00	2.00
Steel Telescopic pole11.2M	119.20	430.00	2.10	5.00	2650.00	211.00	286.00	355.00	2.00
Steel Telescopic pole12.0M	100.00	430.00	2.10	6.00	2800.00	218.00	288.00	355.00	2.00
Steel Telescopic pole13.0M	170.00	454.00	2.50	6.00	2800.00	309.00	375.00	330.00	2.00

GALVANIZED IRON PIPES



The Galvanized Pipes are manufactured using steel and then coated using the process of galvanizing. These pipes are thoroughly tested and examined in accordance with international standards. The galvanized pipes are mostly demanded for plumbing or tubing purpose, which can withstand corrosion from water and other elements.

The pipes are available in several standard as well as customized sizes, widths and thickness as per the specification provided by our clients. The pipes, we manufacture are as per the Indian standards, Nepal Standards and licensed through the Bureau. Chiefly, the galvanized pipes are installed for water supply and tubing for outdoor applications, but also suitable for gas and sewage applications.

GENERAL APPLICATIONS

Potable Water Supply
Tube Wells & Hand pumps
Plumbing Works
Structure
Bridge Railing
Poles / Post
Electrical Conduits
Cooling Towers
Electrical / Telecom Cable Ducting

Confirming to IS 1239 (Part-1) 2004 and NS 199

Equivalent To BS 1387:1985/EN 10255:2004

		OUTSIDE DIA	AMETER (OD)				NOMINAL MASS	OF STEEL TUBE		so	CKETS
NOMINAL B	ORE & CLASS	MAX	MIN	WALL THI	CKNESS (T)	PLAI	N END	SCREWED	& SOCKETED	MIN OD	MIN LENGTH
mm	Inch	mm	mm	mm	swg	KG/MTR	MRS/MT	KG/MTR	MTRS/MT	mm	mm
15L	0.50	21.4	21.0	2.0	14	0.947	1056	0.956	1046	27.0	37.0
15M	0.50	21.8	21.0	2.6	12	1.21	826	1.22	820	27.0	37.0
15H	0.50	21.8	21.0	3.2	10	1.44	694	1.45	690	27.0	37.0
20L	0.75	26.9	26.4	2.3	13	1.38	725	1.39	719	32.5	39.0
20M	0.75	27.3	26.5	2.6	12	1.56	641	1.57	637	32.5	39.0
20H	0.75	27.3	26.5	3.2	10	1.87	535	1.88	532	32.5	39.0
25L	1.00	33.8	33.2	2.6	12	1.98	505	2.00	500	39.5	46.0
25M	1.00	34.2	33.3	3.2	10	2.41	415	2.43	412	39.5	46.0
25H	1.00	34.2	33.3	4.0	8	2.93	341	2.95	339	39.5	46.0
32L	1.25	42.5	41.9	2.6	12	2.54	394	2.57	389	49.0	51.0
32M	1.25	42.9	42.0	3.2	10	3.10	323	3.13	319	49.0	51.0
32H	1.25	42.5	41.9	4.0	8	3.79	264	3.82	262	49.0	51.0
40L	1.50	48.4	47.8	2.9	11	3.23	310	3.27	306	56.0	51.0
40M	1.50	48.8	47.9	3.2	10	3.56	281	3.60	278	56.0	51.0
40H	1.50	48.8	47.9	4.0	8	4.37	229	4.41	227	56.0	51.0
50L	2.00	60.2	59.6	2.9	11	4.08	245	4.15	241	68.0	60.0
50M	2.00	60.8	59.7	3.6	9	5.03	199	5.10	196	68.0	60.0
50H	2.00	60.8	59.7	4.5	7	6.19	162	6.26	160	68.0	60.0
65L	2.50	76.0	75.2	3.2	10	5.71	175	5.83	172	84.0	69.0
65M	2.50	76.6	75.3	3.6	9	6.42	156	6.54	153	84.0	69.0
65H	2.50	76.6	75.3	4.5	7	7.93	126	8.05	124	84.0	69.0
80L	3.00	88.7	87.9	3.2	10	6.72	149	6.89	145	98.0	75.0
80M	3.00	89.5	88.0	4.0	8	8.36	120	8.53	117	98.0	75.0
80H	3.00	89.5	88.0	4.8	6	9.90	101	10.10	99	98.0	75.0
100L	4.00	113.9	113.0	3.6	9	9.75	103	10.00	100	124.0	87.0
100M	4.00	115.0	113.1	4.5	7	12.20	82	12.50	80	124.0	87.0
100H	4.00	115.0	113.1	5.4	5	14.50	69	14.80	68	124.0	87.0
125M	5.00	140.8	138.5	4.8	6	15.90	63	16.40	61	151.0	96.0
125H	5.00	140.8	138.5	5.4	5	17.90	56	18.40	54	151.0	96.0
150M	6.00	166.5	163.9	4.8	6	18.90	53	19.5	51	178.0	96.0
150H	6.00	166.5	163.9	5.4	5	21.30	47	21.90	46	178.0	96.0

MS BLACK PIPES



MS Black Pipes, or Mild Steel Black Pipes is called MS Black Pipe because it is not galvanized and is an ideal product to be welded into pipes, tubes and other kinds of tubing. It is one of the cheapest metals available in the market. The high quality steel used to manufacture black pipes makes it one of the most used ones in the construction and general engineering industries today.

GENERAL APPLICATIONS

Industrial Sheds
Bridges
Swaged Poles
Telecom Towers
Scaffoldings
Mine roof support system

Confirming to IS 1161/2014

NB	OD	Thk	Mass	Area of Cross- Section	Internal Volume	Surf	ace	Moment of Inertia	Modulus of Section	Radius of Gyration	Square of Radius of Gyration
mm (1)	mm (2)	mm (3)	kg/m (4)	cm² (5)	cm³/m (6)	External cm ^y m (7)	Internal cm³/m (8)	cm ⁴ /m (9)	cm ³ (10)	cm (11)	cm ² (12)
	21.3	2	0.952	1.21	235	669	543	0.57	0.54	0.69	0.47
15	21.3	2.6	1.20	1.53	204	669	506	0.68	0.64	0.67	0.45
	21.3	3.2	1.43	1.82	174	669	468	0.77	0.72	0.65	0.42
	26.9	2.3	1.40	1.78	391	845	701	1.36	1.01	0.87	0.76
20	26.9	2.6	1.56	1.98	370	845	682	1.48	1.10	0.86	0.75
	26.9	3.2	1.87	2.38	330	845	644	1.70	1.27	0.85	0.71
	33.7	2.6	1.99	2.54	638	1 059	895	3.09	1.84	1.10	1.22
25	33.7	3.2	2.41	3.07	585	1 059	858	3.60	2.14	1.08	1.18
	33.7	4	2.93	3.73	519	1 059	807	4.19	2.49	1.06	1.12
	42.4	2.6	2.55	3.25	1 087	1 332	1 169	6.46	3.05	1.41	1.99
32	42.4	3.2	3.09	3.94	1 018	1 332	1 131	7.62	3.59	1.39	1.93
	42.4	4	3.79	4.83	929	1 332	1 081	8.99	4.24	1.36	1.86
	48.3	2.9	3.25	4.14	1 419	1 517	1 335	10.70	4.43	1.61	2.59
40	48.3	3.2	3.56	4.53	1 379	1 517	1316	11.59	4.80	1.60	2.56
	48.3	4	4.37	5.57	1 276	1 517	1 266	13.77	5.70	1.57	2.47
	60.3	2.9	4.11	5.23	2 333	1 894	1712	21.59	7.16	2.03	4.13
50	60.3	3.6	5.03	6.41	2 2 1 5	1 894	1 668	25.87	8.58	2.01	4.03
	60.3	4.5	6.19	7.89	2 067	1 894	1 612	30.90	10.25	1.98	3.92
	76.1	2.9	5.24	6.67	3 882	2 391	2 209	44.74	11.76	2.59	6.71
65	76.1	3.6	6.44	8.20	3 728	2 391	2 165	54.01	14.19	2.57	6.59
	76.1	4.5	7.95	10.12	3 536	2 391	2 108	65.12	17.11	2.54	6.43
	88.9	3.2	6.76	8.62	5 346	2 793	2 592	79.21	17.82	3.03	9.19
80	88.9	4	8.38	10.67	5 140	2 793	2 542	96.34	21.67	3.00	9.03
	88.9	4.8	9.96	1-2:68	4 939	2 793	2 491	112.49	25.31	2.98	8.87
	101.6	3.6	8.70	11.08	6-999 -	3 192		133.24	26.23	3.47	12.02
90	101:6	4	9.63	12.26	6 881	3 192	2 941	146.28	28.80	3.45	11.93
	101.6	4.8	11.46	14.60	6 648	3 192	2 890	171.39	33.74	3.43	11.74
	114.3	3.6	9.83	12.52	9 009	3 591	3 365	191.98	33.59	3.92	15.33
100	114.3	4.5	12.19	15.52	0.700	3 591	3 308	234.32	41.00	3.89	15.10
	114.3	5.4	14.50	18.47	8 4 1 3	3 591	3 252	274.54	48.04	3.85	14.86

		127	4.5	13.59	17.32	10 936	3 990	3 707	325.29	51.23	4.33	18.78
- 1	10	127	4.8	14.47	18.43	10 825	3 990	3 688	344.50	54.25	4.32	18.69
ŧ.		127	5.4	16.19	20.63	10 605	3 990	3 651	382.04	60.16	4.30	18.52
-		139.7	4.5	15.00	19.11	13 417	4 389	4 106	437.20	62.59	4.78	22.87
1	25	139.7	4.8	15.97	20.34	13 295	4 389	4 087	463.33	66.33	4.77	22.78
		139.7	5.4	17.89	22.78	13 050	4 389	4 050	514.50	73.66	4.75	22.58
				.,		<i>f</i>	4 202	4 050	514.50	73.00	4.75	22.30
		152.4	4.5	16.41	20.91	16 151	4 788	4 505	572.24	75.10	5.23	27.37
- 1	35	152.4	4.8	17.47	22.26	16,016	4 788	4 486	606.76	79.63	5.22	27.26
		152.4	5.4	19.58	24.94 -	- 15 748	4 788	4 448	674.51	88.52	5.20	27.05
		165.1	4.5	17.82	22.70	19 138	5 187	4 904	732.57	88.74	5.68	32.27
		165.1	4.8	18.98	24.17	18 991	5 187	4 885	777.13	94.14	5.67	32.15
1	50	165.1	5.4	21.27	27.09	18 699	5 187	4 847	864.70	104.75	5.65	31.92
		165.1	5.9	23.20	29.50	18 465	5 189	4 8 1 8	970.00	113.40	5.63	31.72
		165.1	6.3	24.67	31.43	18 265	5 187	4 791	992.28	120.20	5.62	31.57
		165.1	8	30.99	39.48	17 460	5 187	4 684	1 221.25	147.94	5.56	30.93
		168.3	4.5	18.18	23.16	19 931	5 287	5 005	777.22	92.36	5.79	33.56
		168.3	4.8	19.35	24.66	19 781	5 287	4 986	824.57	97.99	5.78	33.44
		168.3	5.4	21.69	27.64	19 483	5 287	4 948	917.69	109.05	5.76	33.21
1	50	168.3	6.3	25.17	32.06	19 040	5 287	4 891	1 053.42	125.18	5.73	32.85
		168.3	8	31.63	40.29	18 218	5 287	4 785	1 297.27	154.16	5.67	32.20
		168.3	10	39.04	49.73	17 273	5 287	4 659	1 563.98	185.86	5.61	31.45
		193.7	4.5	A CONTRACTOR OF CASE	28.49	26 619	6 085	5 784	1271.39	131.27	6.68	44.63
		193.7	5.4		31.94	26 273	6 085	5 746	1416.97	146.31	6.66	44.30
		193.7	5.9		34.81	25 987	6 085	5 7 1 5	1536.13	158.61	6.64	44.13
	175	193.7	6.3	3 29.12	37.09	25 759	6 085	5 689	1630.05	168.31	6.63	43.95
		193.7	1	36.64	46.67	24 801	6 085	5 583	2015.54	208.11	6.57	43.19
		193.7	10	45.30	57.71	23 697	6 085	5 457	2441.59	252.10	6.50	42.3
		193.7	1.		68.50	22 618	6 085	5 331	2839.20	293.15	6.44	41.45
		219.1	4.1	8 25.37	32.32	34 471	6 883	6 582	1856.03	169.42	7.58	57.43
		219.1	5.0		37.56	33 947	6 883	6531	2141.61	195.49		
		219.1	5.9		39.52	33 751	6 883				7.55	57.02
	200		6.3	5 - 400000000000000000000000000000000000				6 5 1 3	2247.01	205.11	7.54	56.80
	200				42.12	33 491	6 883	6 487	2386.14	217.81	7.53	56.65
		219.1			53.06	32 397	6 883	6 381	2959.63	270.16	7.47	55.78
		219.1	10		65.69	31 134	6 883	6 255	3598.44	328.47	7.40	54.78
		219.1	12	61.29	78.07	29 895	6 883	6 129	4199.88	383.38	7.33	53.79

BLACK PIPE FOR GENERAL PURPOSE

As Per IS 3601:2006

Size	Nominal Bore	Outer Diameter	Wall Thickness	Weight	Area of cross section	Outer Surface Area/m	Moment of Inertia	Section Modulus	Radius of Gyration
Inch	mm	mm	mm	kg/m	cm²	cm²/m	cm⁴	cm³	cm
			1.6	0.78	0.99		0.48	0.45	0.70
			1.8	0.87	1.10		0.53	0.50	0.69
			2.2	1.04	1.32		0.61	0.57	0.68
1/2	15	21.3	2.3	1.08	1.37	669	0.63	0.59	0.68
			2.4	1.12	1.43		0.65	0.61	0.67
			2.5	1.16	1.48		0.66	0.62	0.67
			2.7	1.24	1.58		0.70	0.65	0.66
			1.6	1.00	1.27		1.02	0.76	0.90
			1.8	1.11	1.42		1.12	0.84	0.89
			2.2	1.34	1.71		1.31	0.98	0.88
0/4	00	00.0	2.4	1.45	1.85	0.45	1.40	1.04	0.87
3/4	20	26.9	2.5	1.50	1.92	845	1.44	1.07	0.87
			2.7	1.61	2.05		1.52	1.13	0.86
			2.9	1.72	2.19		1.60	1.19	0.85
			3	1.77	2.25	-	1.63	1.21	0.85
			1.6	1.27	1.61		2.08	1.24	1.14
			1.8	1.42	1.80		2.30	1.37	1.13
			2.2	1.71	2.18		2.71	1.61	1.12
4	25	00.7	2.4	1.85	2.36	1050	2.91	1.73	1.11
1	25	33.7	2.5	1.92	2.45	1059	3.00	1.78	1.11
			2.7	2.06	2.63		3.18	1.89	1.10
			2.9	2.20	2.81		3.36	1.99	1.09
			3.7	2.74	3.49		3.98	2.36	1.07
			1.6	1.61	2.05		4.27	2.02	1.44
			1.8	1.80	2.30		4.74	2.24	1.44
			2.1	2.09	2.66		5.41	2.55	1.43
			2.2	2.18	2.78		5.63	2.66	1.42
1 1/4	32	42.4	2.4	2.37	3.02	1332	6.05	2.86	1.42
			2.5	2.46	3.13	1002	6.26	2.95	1.41
			2.7	2.64	3.37		6.66	3.14	1.41
			2.9	2.82	3.60		7.06	3.33	1.40
			3.7	3.53	4.50		8.50	4.01	1.37

Size	Nominal Bore	Outer Diameter	Wall Thickness	Weight	Area of cross section	Outer Surface Area/m	Moment of Inertia	Section Modulus	Radius of Gyration
Inch	mm	mm	mm	kg/m	cm²	cm²/m	cm ⁴	cm³	cm
			1.6	1.84	2.35		6.41	2.65	1.65
			1.8	2.06	2.63	1	7.12	2.95	1.65
			2.1	2.39	3.05		8.15	3.37	1.64
			2.2	2.50	3.19		8.48	3.51	1.63
1 1/2	40	48.3	2.4	2.72	3.46	1517	9.14	3.78	1.63
			2.5	2.82	3.60		9.46	3.92	1.62
			2.7	3.04	3.87		10.09	4.18	1.62
			2.9	3.25	4.14		10.70	4.43	1.61
			3.7	4.07	5.18		12.98	5.37	1.58
			1.6	2.32	2.95		12.72	4.22	2.08
			21.8	20.70	26.37		64.52	21.40	1.56
			2	2.88	3.66	1	15.58	5.17	2.06
			2.2	3.15	4.02	1	16.97	5.63	2.06
			2.4	3.43	4.37	1	18.33	6.08	2.05
2	50	60.3	2.5	3.56	4.54	1894	18.99	6.30	2.05
			2.7	3.84	4.89	1	20.31	6.74	2.04
			3.1	4.37	5.57	-	22.85	7.58	2.03
			3.1	4.77	6.08		24.68	8.19	2.02
			3.7	5.16	6.58	1	26.46	8.78	2.01
			4.3	5.94	7.56	-	29.83	9.89	1.99
			1.8	3.30	4.21		29.13	7.65	2.63
			2	3.66	4.66		32.11	8.43	2.62
			2.2	4.01	5.11		35.04	9.20	2.62
			2.4	4.37	5.56		37.92	9.95	2.61
0.4/0	0.5	70.0	2.5	4.54	5.79	0004	39.35	10.33	2.61
2 1/2	65	76.2	2.7	4.89	6.23	- 2394	42.16	11.06	2.60
			3.1	5.59	7.12	1	47.64	12.50	2.59
			3.4	6.10	7.78	1	51.63	13.55	2.58
			3.7	6.62	8.43	1	55.51	14.57	2.57
			4.3	7.62	9.71	1	62.99	16.53	2.55
			1.8	3.30	4.21		29.13	7.65	2.63
			2	3.66	4.66]	32.11	8.43	2.62
			2.2	4.01	5.11]	35.04	9.20	2.62
			2.4	4.37	5.56	1	37.92	9.95	2.61
0.1/0	ee.	76.0	2.5	4.54	5.79	0004	39.35	10.33	2.61
2 1/2	65	76.2	2.7	4.89	6.23	- 2394	42.16	11.06	2.60
			3.1	5.59	7.12]	47.64	12.50	2.59
			3.5	6.10	7.78		51.63	13.55	2.58
			3.7	6.62	8.43		55.51	14.57	2.57
			4.3	7.62	9.71]	62.99	16.53	2.55

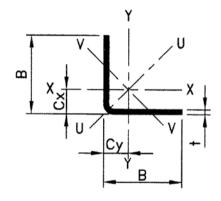
Size	Nominal Bore	Outer Diameter	Wall Thickness	Weight	Area of cross section	Outer Surface Area/m	Moment of Inertia	Section Modulus	Radius of Gyration					
Inch	mm	mm	mm	kg/m	cm ²	cm²/m	cm⁴	cm³	cm					
			1.8	3.87	4.93		46.73	10.51	3.08					
			2	4.29	5.46		51.57	11.60	3.07					
			2.2	4.70	5.99		56.34	12.67	3.07					
			2.4	5.12	6.52		61.05	13.73	3.06					
			2.5	5.33	6.79		63.37	14.26	3.06					
3	80	88.9	2.7	5.74	7.31	2793	67.98	15.29	3.05					
			3.1	6.56	8.36		76.99	17.32	3.04					
			3.5	7.37	9.39		85.75	19.29	3.02					
			3.7	7.77	9.90		90.03	20.25	3.02					
			4.2	8.77	11.18		100.47	22.60	3.00					
			4.3	8.97	11.43		102.51	23.06	2.99					
			2	5.54	7.06		111.27	19.47	3.97					
			2.2	6.08	7.75		121.75	21.30	3.96					
			2.4	6.62	8.44		132.12	23.12	3.96					
			2.5	6.89	8.78	3591	137.26	24.02	3.95					
			2.7	7.43	9.47		147.46	25.80	3.95					
4	100	1110	3.1	8.50	10.83		167.52	29.31	3.93					
4	100	114.3	114.3	114.3	114.3	114.3	114.5	3.5	9.56	12.18	3591	187.15	32.75	3.92
							3.7	10.09	12.86		196.79	34.43	3.91	
			4.2	11.40	14.53		220.45	38.57	3.90					
			4.3	11.66	14.86		225.10	39.39	3.89					
			4.5	12.19	15.52		234.32	41.00	3.89					
			4.8	12.96	16.51		247.96	43.39	3.88					
			2	6.79	8.65		205.11	29.36	4.87					
			2.2	7.46	9.50		224.65	32.16	4.86					
			2.4	8.13	10.35		244.01	34.93	4.86					
			2.5	8.46	10.78		253.63	36.31	4.85					
			2.7	9.12	11.62		272.74	39.05	4.84					
E	105	100 7	3.1	10.44	13.30	4000	310.45	44.45	4.83					
5	125	139.7	3.5	11.76	14.98	4389	347.49	49.75	4.82					
			3.7	12.41	15.81		365.76	52.36	4.81					
			4.2	14.03	17.88		410.72	58.80	4.79					
		4	4.3	14.36	18.29		419.59	60.07	4.79					
			4.5	15.00	19.11		437.20	62.59	4.78					
			4.8	15.97	20.34		463.33	66.33	4.77					

Size	Nominal Bore	Outer Diameter	Wall Thickness	Weight	Area of cross section	Outer Surface Area/m	Moment of Inertia	Section Modulus	Radius of Gyration
Inch	mm	mm	mm	kg/m	cm ²	cm²/m	cm⁴	cm³	cm
			2	8.04	10.25		340.81	41.29	5.77
			2.2	8.84	11.26		373.53	45.25	5.76
			2.4	9.63	12.27		406.00	49.18	5.75
			2.5	10.02	12.77		422.15	51.14	5.75
			2.7	10.81	13.78		454.26	55.03	5.74
0	450	105.1	3.2	12.78	16.28	5407	533.48	64.63	5.73
6	150	165.1	3.5	13.95	17.77	5187	580.30	70.30	5.71
			3.7	14.73	18.76		611.22	74.04	5.71
			4.2	16.67	21.23		687.50	83.28	5.69
			4.3	17.05	21.72		702.58	85.11	5.69
			4.5	17.82	22.70		732.57	88.74	5.68
			4.8	18.98	24.17		777.13	94.14	5.67
			2.5	11.79	15.02		686.34	70.87	6.76
			2.7	12.72	16.20	6085	738.94	76.30	6.75
			3.1	14.57	18.56		843.15	87.06	6.74
			3.5	16.42	20.91		946.03	97.68	6.73
			4.2	19.63	25.00		1122.92	115.94	6.70
7	175	193.7	4.5	21.00	26.75		1197.52	123.65	6.69
			4.8	22.36	28.49	-	1271.39	131.27	6.68
			5	23.27	29.64		1320.23	136.32	6.67
			5.3	24.63	31.37		1392.91	143.82	6.66
			6	27.77	35.38		1559.72	161.05	6.64
			2.5	13.35	17.01		997.78	91.08	7.66
			2.7	14.41	18.36		1074.64	98.10	7.65
			3.1	16.51	21.04		1227.08	112.01	7.64
			3.5	18.61	23.71		1377.81	125.77	7.62
			4.2	22.26	28.36		1637.51	149.48	7.60
8	200	219.1	4.5	23.82	30.34	6883	1747.24	159.49	7.59
			4.8	25.37	32.32		1856.03	169.42	7.58
			5	26.40	33.63		1928.04	176.00	7.57
		_	5.3	27.94	35.60		2035.29	185.79	7.56
			6	31.53	40.17		2281.95	208.30	7.54

Black Pipe Others (IS 1239)

NOMINAL B		OUTSIDE DIA	AMETER (OD)	MALL TH	OKNESS (T)		NOMINAL MASS	OF STEEL TUBE		soc	CKETS
NOMINAL BO	DRE & CLASS	MAX	MIN	WALLIHI	CKNESS (T)	PLAII	N END	SCREWED	& SOCKETED	MIN OD	MIN LENGTH
mm	Inch	mm	mm	mm	SWG	KG/MTR	MRS/MT	KG/MTR	MTRS/MT	mm	mm
15L	0.50	21.4	21.0	2.0	14	0.947	1056	0.956	1046	27.0	37.0
15M	0.50	21.8	21.0	2.6	12	1.21	826	1.22	820	27.0	37.0
15H	0.50	21.8	21.0	3.2	10	1.44	694	1.45	690	27.0	37.0
20L	0.75	26.9	26.4	2.3	13	1.38	725	1.39	719	32.5	39.0
20M	0.75	27.3	26.5	2.6	12	1.56	641	1.57	637	32.5	39.0
20H	0.75	27.3	26.5	3.2	10	1.87	535	1.88	532	32.5	39.0
25L	1.00	33.8	33.2	2.6	12	1.98	505	2.00	500	39.5	46.0
25M	1.00	34.2	33.3	3.2	10	2.41	415	2.43	412	39.5	46.0
25H	1.00	34.2	33.3	4.0	8	2.93	341	2.95	339	39.5	46.0
32L	1.25	42.5	41.9	2.6	12	2.54	394	2.57	389	49.0	51.0
32M	1.25	42.9	42.0	3.2	10	3.10	323	3.13	319	49.0	51.0
32H	1.25	42.5	41.9	4.0	8	3.79	264	3.82	262	49.0	51.0
40L	1.50	48.4	47.8	2.9	11	3.23	310	3.27	306	56.0	51.0
40M	1.50	48.8	47.9	3.2	10	3.56	281	3.60	278	56.0	51.0
40H	1.50	48.8	47.9	4.0	8	4.37	229	4.41	227	56.0	51.0
50L	2.00	60.2	59.6	2.9	11	4.08	245	4.15	241	68.0	60.0
50M	2.00	60.8	59.7	3.6	9	5.03	199	5.10	196	68.0	60.0
50H	2.00	60.8	59.7	4.5	7	6.19	162	6.26	160	68.0	60.0
65L	2.50	76.0	75.2	3.2	10	5.71	175	5.83	172	84.0	69.0
65M	2.50	76.6	75.3	3.6	9	6.42	156	6.54	153	84.0	69.0
65H	2.50	76.6	75.3	4.5	7	7.93	126	8.05	124	84.0	69.0
80L	3.00	88.7	87.9	3.2	10	6.72	149	6.89	145	98.0	75.0
80M	3.00	89.5	88.0	4.0	8	8.36	120	8.53	117	98.0	75.0
80H	3.00	89.5	88.0	4.8	6	9.90	101	10.10	99	98.0	75.0
100L	4.00	113.9	113.0	3.6	9	9.75	103	10.00	100	124.0	87.0
100M	4.00	115.0	113.1	4.5	7	12.20	82	12.50	80	124.0	87.0
100H	4.00	115.0	113.1	5.4	5	14.50	69	14.80	68	124.0	87.0
125M	5.00	140.8	138.5	4.8	6	15.90	63	16.40	61	151.0	96.0
125H	5.00	140.8	138.5	5.4	5	17.90	56	18.40	54	151.0	96.0
150M	6.00	166.5	163.9	4.8	6	18.90	53	19.5	51	178.0	96.0
150H	6.00	166.5	163.9	5.4	5	21.30	47	21.90	46	178.0	96.0

ANGLE (EQUAL)



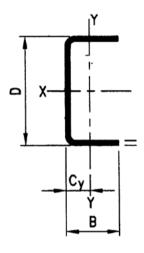


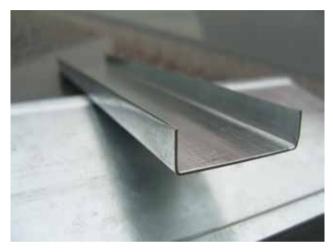






LIGHT CHANNEL (COLD FORMED)

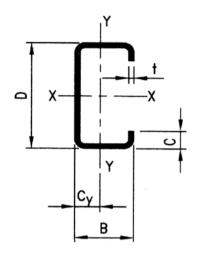




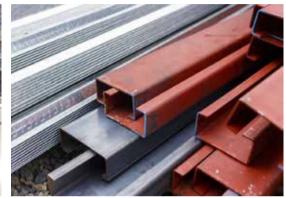


Size	Thickness	Weight	Surface Area	Cross section Area		ent of rtia		etion Iulus		ius of ation	Center Of Gravity
mm	mm	kg/m	m2/m	cm ²	CI	n ⁴	CI	n ³	С	m	cm
HxB	Thickness	М	SA	Α	lxx	lyy	Zxx	Zyy	rxx	ryy	Суу
	2	3.13	0.392	3.83	65.55	10.36	12.9	2.79	4.13	1.64	13.3
	3	4.91	0.388	6.25	98.93	15.94	19.65	4.34	3.97	1.6	1.42
100x50	4	5.74	0.384	7.31	111.12	18.07	22.21	5.08	3.86	1.56	1.45
	5	7.04	0.38	8.96	130.27	21.49	26.07	6.16	3.81	1.55	1.51
	6	8.37	0.376	10.66	151.84	25.03	30.37	7.25	3.75	1.53	1.55
	3	4.46	0.388	5.65	113.3	9.57	18.88	3.13	4.48	1.3	0.94
120x40	3.6	5.31	0.386	6.76	134.49	10	22.41	3.29	4.46	1.22	0.96
	4	5.87	0.384	7.47	147.35	10.22	24.56	3.38	4.44	1.17	0.97
	3	5.61	0.488	7.15	227.46	19.83	30.33	5.13	4.64	1.66	1.14
450-50	3.6	6.72	0.486	8.57	270.63	21.2	36.08	5.52	5.62	1.57	1.16
150x50	4	7.37	0.484	9.47	297.37	21.78	39.65	5.69	5.6	1.52	1.17
	5	8.97	0.48	11.4	346	24.7	46.2	6.56	5.51	1.47	1.24

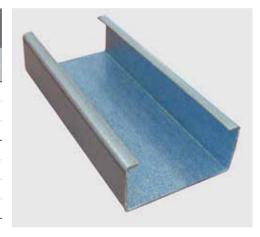
LIPPED CHANNEL



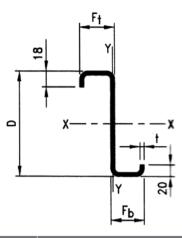




Size	Thickness	Weight	Surface Area	Cross section Area		ent of rtia		etion Iulus		us of ation	Center Of Gravity
mm	mm	kg/m	m2/m	cm ²	CI	m ⁴	CI	n ³	С	m	cm
HxBxC	Thickness	М	SA	Α	lxx	lyy	Zxx	Zyy	rxx	ryy	Суу
	2	3.51	0.464	4.47	69.69	16.48	13.94	5.25	3.95	1.92	1.86
100x50x20	2.3	4	0.462	5.08	78.46	18.41	15.69	5.84	3.93	1.9	1.85
	2.8	4.76	0.458	6.07	92.13	21.34	18.43	6.77	3.9	1.8	1.85
	2	3.98	0.524	5.07	1	30.77	16.82	7.69	4.07	2.46	2.5
100 05 00	2.3	4.53	0.522	5.77	94.93	34.53	18.99	8.63	4.06	2.45	2.5
100x65x20	2.8	5.42	0.518	6.91	111.98	40.33	22.4	10.06	4.03	2.42	2.49
	3.15	6.03	0.515	7.68	123.93	44.05	24.79	10.99	4.02	2.39	2.49
	2	3.82	0.504	4.87	107.02	17.62	4.69	1.9	17.84	5.36	1.71
120x50x20	2.3	4.35	0.502	5.54	120.7	19.69	4.67	1.89	20.12	5.98	1.71
	2.8	5.2	0.498	6.63	142.18	22.83	4.63	1.86	23.7	6.92	1.7
	2	4.61	0.604	5.87	182.65	34.76	5.58	2.43	26.09	8.05	2.18
1400500	2.55	5.78	0.6	7.37	226.18	42.44	5.54	2.4	32.31	9.8	2.17
140x65x20	2.8	6.3	0.598	8.03	245.03	45.68	5.52	2.39	35	10.55	2.17
	3.15	7.02	0.595	8.94	270.46	49.94	5.5	2.36	38.64	11.51	2.16



ZED SECTION



Size	Thick- ness	Weight	Surface Area	Cross section Area		Moment	of inertia		Radius of Gyration Min	Ange Tan a			tion Iulus		Product Moment of Inertia	Torsion Constant	Warping Constant
mm	mm	kg/m	m2/m	cm ²		CI	m ⁴		cm	cm ²		CI	n ³		cm ⁴		cm ⁴
HxBxC	Thick- ness	М	SA	Α	lxx	lyy	luu	lvv	rw	Tan a	Zxx	Zyy	Zuu	Zvv	lxy	J	Cw
	2	3.66	0.488	4.66	99.7	23	144	8.94	1.39	0.39	16.6	5.22	16.3	3.39	35.7	0.06	629
120x45x20	2.3	4.16	0.486	5.3	112	25.5	128	9.96	1.37	0.39	18.7	5.82	18.4	3.78	39.9	0.09	704
	2.55	4.56	0.485	5.82	122	27.5	139	10.7	1.36	0.39	12.4	6.3	20.1	4.08	43.3	0.12	764
	2	3.37	0.498	4.76	110	23	124	9.14	1.39	0.37	17.6	5.22	17.2	3.45	37.3	0.06	686
125x45x20	2.3	4.25	0.496	5.41	124	25.5	139	10.2	1.37	0.37	19.8	5.82	19.5	3.85	41.8	0.09	769
	2.55	4.66	0.495	5.94	135	27.5	151	11	1.36	0.37	21.6	6.3	21.3	4.15	45.3	0.13	834
	2	6.32	0.828	8.06	636	87.5	686	38.1	2.18	0.29	55.3	11.8	53.2	8.52	172	0.16	8550
200 75 00	2.3	7.23	0.826	9.2	723	98.3	778	32.9	2.16	0.29	62.9	33.3	60.5	9.58	194	0.22	9670
230x75x20	2.55	7.97	0.825	10.2	793	107	854	46.7	2.14	0.28	69	14.5	66.6	10.4	212	0.4	10600
	3.15	9.72	0.821	12.4	956	126	1030	55.2	2.11	0.28	83.2	17.2	80.6	12.3	253	0.11	12600
	2	6.64	0.868	8.46	775	87.5	822	39.7	2.17	0.26	62	11.8	59.8	8.71	187	0.11	10300
	2.3	7.59	0.866	9.66	881	98.3	934	34.7	2.15	0.35	70.5	13.3	68.2	9.81	212	0.17	11600
250x75x20	2.55	8.37	0.865	10.7	967	107	1025	38.7	2.14	0.25	77.4	14.5	75	10.7	231	0.23	12700
	3.15	10.2	0.861	13	1170	126	1235	57.5	2.1	0.25	93.3	17.2	90.8	12.6	276	0.43	15200
	2	7.42	0.968	9.46	1200	87.5	1240	43.1	2.14	0.2	79.81	11.6	77.8	9.11	226	0.13	15400
	2.3	8.49	0.966	10.8	1360	98.3	1410	48.5	2.12	0.2	90.8	13.3	88.7	10.3	256	0.19	17400
300x75x20	2.55	9.37	0.965	11.9	1500	107	1550	52.9	2.1	0.19	99.7	14.5	97.6	11.2	279	0.26	19100
	3.15	11.5	0.961	14.6	1810	126	1870	52.5	2.07	0.19	121	17.2	118	13.2	333	0.48	22800

DETAILS OF SPECIFICATION OF SOME OF THE RAW MATERIALS GENERALLY IN USE IS-10748 - 1995 (HOT ROLLED STEEL SHEETS) CHEMICAL COMPOSITION MECHANICAL PROPERTIES Ultimate Internal Grade C Max Mn Max P Max S Max Si Max Yield Strength Tensile Elongation% diameter of Strength bend % % % % MPa MPa t 0.10 0.50 0.04 0.04 For semi 170 290 30 Τ Ш 0.12 0.60 0.04 0.04 killed 210 330 28 2T Ш 0.16 1.20 0.04 0.04 quality Si 240 410 25 2T IV 0.20 1.30 0.04 0.04 content 275 430 20 ЗТ V 0.25 1.30 0.04 0.04 shall be 310 490 15 ЗТ

Carbon Equivalent 0.45 Ma for grade IV & V.

		IS-206	62 - 1999	(HOT R	OLLED S	TEEL	SHEET	S FOI	R PIPE MAK	ING)	
		CHEMICAL C	OMPOSITION	N .				N	MECHANICAL PROF	PERTIES	
Grade	C Max	Mn Max	P Max	S Max	Si Max	Ultimate Int X Yield Strength Tensile Elongation% diam Strength b					
	%	%	%	%	%		MPa		MPa	%	t
						<20	20-40	>40			
А	0.23	1.50	0.50	0.05	0.40	250	240	230	410	23	ЗТ
В	0.22	1.50	0.45	0.05	0.40	250	240	230	410	23	2T
С	0.20	1.50	0.40	0.04	0.40	250	240	230	410	23	2T

						TOLER	ANCES				
SI. No.	Standard No. / Product	Туре		Maximum	Thickness	Maximu	m Mass				
			Outside Diameter	Minus %	Plus %	Minus %	Plus %	Length			
	N.S. 199/2046	L		8	NL	8	10				
1	0.1	М	As per table in relevant standard	10	NL	10	10	Pipe length including socket or as agreed to betwe the purchaser and the supplier.			
	Galvanized Steel Pipes	Н		10	NL	10	10	Pipe length including socket or as agreed to betwee			
	N.S. 1239 (Part-I) / 1990	L		8	NL	8	10				
2	Plant Ctant Dings	М	As per table in relevant standard	10	NL	10	10	Pipe length including socket or as agreed to between the purchaser and the supplier.			
	Black Steel Pipes	Н		10	NL	10	10	are pareneous and are eappher.			
	B.S. 1387/1995	L		8	NL	8	10				
3	Black Steel Pipes	М	As per table in relevant standard	10	NL	8	10	For specified length +6mm, - 00mm only			
	black Steel Pipes	Н		10	NL	8	10				
	N.S. 427/058	L	Upto and including 48.3mm	10	NL	8	10				
4	Black Steel Pipes	М	to 0.4mm and -0.8mm over	10	NL	10	10	Piple length including sockert or as agreed to between purchaser and the supplier.			
	black Steel Fipes	Н	48.3mm+-1.0%	10	NL	10	10				
	I.S.1161 / 1979	L	Upto and including 48.3mm	10	NL	8	10				
5	Mild Stell Tubes used for structure	М	to 0.4mm and -0.8mm over	10	NL	10	10	Generally 4 to 7 Mtrs or as agreed to between the purchaser and the supplier.			
	Milia Stell Tubes used for structure	Н	48.3mm+-1.0%	10	NL	10	10	are parentees and are eapproxi			
	I.S.3601/1984	CQ	Upto and including 40mm MB + 0.5					Generally 4 to 7 mtrs, 50% short random length of			
6	Mild Stell Tubes used for structure	M H	mm 1.0mm, over 40mm NB +-1% +-0.5mm	10	10	10	10	1.0 to 4.0 mtr can be supplied for sizes 76.20 and 114.3 OD. For balance sizeds 7.5%			
7	I.S. 811 / 1987		As per table in relevant standard	5	5	5	5	+-1.5%			
<u>'</u>	Cold formed angles channels		As per table in relevant standard		J		3	T-1.070			
8	I.S. 4923 / 1985		+- 1% of specified Dimension	10	10	8	10	+- 6mm			
	Steel Hollow Sections		1 170 of specifica Difficultion		10			1 Onlin			
9	I.S. 4720 / 1983		+- 1% of specified Dimension	12.5	15	8	10	+- 25mm			
	Steel tubes used for water wells		1 170 of appointed Difficient	12.0	10			. 2311111			
	I.S. 3589 / 1991							Random length 4 to 7 mtrs where exact length			
10	ERW Steel pipes for Water, gas & sewage (168.3 to 219.1mm)		+- 75% of specified Dimension	10	10	10	10	specified tolerances +- 10mm.			
	B.S. 879 / 1965					Upt	0 6"				
11		As per table in relavant standard	d 10	10	1 1		Generally 4 to 7 mtrs. 50% short random length of 1.0 to 4.0 mtr can be supplied for sized 76.20 and				
	Steel tubes used for water wells		,		-	abov	/e 6"	114.3 OD, For balance sizes 7.5%			
	Oteel tubes used for water wells					0.75	0.75				

TOWER

We design, fabricate, supply and erect various types of Communication, Transmission tower and Mono poles such as

- Graund Base Tower Different height
- Rooftop Tower Different height
- Pole Tower

- Self supporting communication tower
- Transmission Tower
- Substation Structure









HYDROPOWER

We design, fabricate and supply various structure of micro hydropower such as

- Headrace pipe
- Penstock pipe
- Expansion join
- By furcation for penstock pipe
- Steel bencement
- Steel Gates (Flushing gates)







EQUIPMENTS

S.NO	NAME & TYPE	NO/ SET	CAPACITY
1	SAWS- POWER HACK-SAWA	2	10" WIDE × 4" THICK
	BEND - SAW CUTTER	1	10" WIDE × 8" THICK
	ABRESSIVE WHEEL SAW	3	6" WIDE X 4" THICK
2	DRILLING MACHINE- BENCH DRILL M/C	3	20 MM DIA DRILLING
	BENCH DRILL M/C	3	1NO.40 MM , 2 NO. 25 MM DRILLING
	HAND DRILL M/C	3	18 MM DIA DRILLING
	MAGNET DRILL M/C	2	18 MM DIA HOLING CAPACITY
	RADIAL DRILL M/C	1	40 MM
	VERTICAL BORING/ DRILLING M/C	1	50 MM
3	WELDING MACHINE WITH VOLTAGE STABLIZER- ARC WELDING M/C (OIL COOLED)	17	350 AMPS
	ARC WELDING M/C (AIR COOLED)	4	350 AMPS
	ARC WELDING M/C (D.C. GENERATOR)	4	450 AMPS
	ARC WELDING M/C (RECTIFIER)	3	350 AMPS
	MIGMATIC WELDING M/C	2	1 NO. 400 AMPS, 1NO. 350 AMPS
4	GRINDERS- ANGULAR HAND GRINDER	2	7" WHEEL
	ANGULAR HAND GRINDER	2	7" WHEEL
	ANGULAR HAND GRINDER	4	4" WHEEL
	HAND GRINDER	10	5" WHEEL
5	LATHE MACHINE- LATHE M/C	3	6 FEET BED
	LATHE M/C	2	1NO. 4FEET , 1 NO.3 FEET BED
	LATHE M/C	1	8 FEET BED
6	GAS/CUTTING EQUIPMENT- WHEEL CUTTER	2	8" WIDE × 3" THICK
	WHEEL CUTTER	3	10" WIDE × 4" THICK
	PIPE, ANGLE, CHANNEL CUTTING M/C	1	½" TO 2" PIPE
	THREAD CUTTING M/C	1	½" TO 2" PIPE
	PUG CUTTING M/C	2	UP TO 50MM THICK PLATE CUTTING
	HAND CUTTING SET	4	

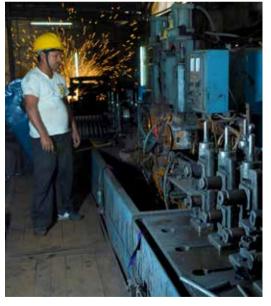
S.NO	NAME & TYPE	NO/ SET	CAPACITY
7	BLACKSMITH SHOP	2	
8	MILLING M/C	2 NO	LENGTH 3 FT, 400MM DIA, DOUBLE SPINDLE
9	GALVANIZING PLANT WITH COMPLETE SET UP- FOR A.STRUCTURE AND PIPE B.POLE & STRUCTURE	2 UNITS	A.0.6 M WIDE × 7 M LONG × 1. 2 M DEEP KETTLE B. 0.6 M WIDE X 3.6 M LONG X 0.6 M DEEP KETTLE
	TEMPRETURE METER	4	0 TO 1200 C (LC =1 C)
	HYDRO METER	2	
	PH-METER	1	
	ADHESION TESTING HAMMER	1	
	ZINC COAT MEASURING INSTRUMENT	1	
	WEIGHTING MACHINE		
	A. WEIGH-BRIDGE	1	80 MT (LC=10KG)
	B. ELECTRONIC WEIGHTING M/C	2	5 MT (LC= 0.5KG)
	C. ELECTRONIC WEIGHTING M/C	1	60 KG(LC=0. 005KG)
	D. WEIGHTING SCALE MACHANICAL	2	300 KG (LC= 0.2 KG)
10	OTHERS- SHEET SHEARING M/C	1	10MM THICK × 0.6 M LONG
	SHEET SHEARING M/C	1	4MM THICK × 3.0 M LONG
	SHEET SHEARING M/C	1	4MM THICK × 1.5 M LONG
	MECHANICAL PRESS	1	75 METRIC TON
	MECHANICAL PRESS	2	1 NO. 200 MT AND 1.NO.35 MT
	HYDRAULIC PRESS M/C	5	3 NOS.40 MT, 2 NOS 25 MT
	PIPE PRESS M/C	1	½" TO 2" PIPE
	HYDRAULIC PRESS M/C	1	70 METRIC TON
	MULTI PURPOSE PRESS M/C A. MPP1	1	CUTTING: CHANNEL ISMC 100, ANGLE ISA 120 X120 X10, FLAT 300 X15, ROD 40Ø PUNCHING 40Ø X 10 MM
	B. MPP2	1	CUTTING: ANGLE ISA 100 X100 X10, FLAT 300 X10, ROD 400 PUNCHING 250 X 12 MM

SHEET ROLLING M/C SHEET BENDING MACHINE 1 3MM THICK × 3 M LONG 1 3MM THICK × 2.5 M LONG 150 MT (2½ TO 8" TUBE SWAGING - " - " - ROD THREADING M/C SHAPER 2 24" PIPE AND COLD ROLLED SECTION ROLLING MILL 1 UNIT 1 UNIT 4 MM THICK × 3 M LONG 150 MT (2½ TO 8" TUBE SWAGING - " - " - 150 MT (2½ TUBE SWAGING - " - " - 150 MT (2½ TUBE SWAGING - " - " - 150 MT (2½ TUBE SWAGING - " - " - 150 MT (2½ TUBE SWAGING - " - " - 150 MT (2½ TUBE SWAGING - " - " - 150 MT (2½ TUBE SWAGING - " - " - 150 MT (2½ TUBE SWAGING - " - " - 150 MT (2½ TUBE SWAGING - " - " - 150 MT (2½ TUBE SWAGING - " - " - 150 MT (2½ TUBE SWAGING - " - " - 150 MT (2½ TUBE SWAGING - " - " - 150 MT (2½ TUBE SWAGING - " - " - 150 MT (2½ TUBE SWAGING - " - " - 150 MT (2½ TUBE SWAGING - " - " - 150 MT (2½ TUBE SWAGING - " - " - 150 MT (2½ TUBE SWAGING - " - " - 15
PIPE SWAGING M/C ROD THREADING M/C SHAPER 2 150 MT (2½' TO 8" TUBE SWAGING - '' - 8 7 7 8" DIA CAPACITY 2 44" ½" TO 8" DIA TUBE ROLLING AND PIPE AND COLD ROLLED SECTION ROLLING MILL 1 UNIT UP TO 6" WIDE COLD ROLLED
PIPE SWAGING M/C ROD THREADING M/C 4 5/8" DIA CAPACITY SHAPER 2 24" PIPE AND COLD ROLLED SECTION ROLLING MILL 1 UNIT 1 UNIT UP TO 6" WIDE COLD ROLLED
SHAPER 2 24" PIPE AND COLD ROLLED SECTION ROLLING MILL 1 UNIT UP TO 6" WIDE COLD ROLLED
PIPE AND COLD ROLLED SECTION ROLLING MILL 1 UNIT UP TO 6" WIDE COLD ROLLED
PIPE AND COLD ROLLED SECTION ROLLING MILL 1 UNIT UP TO 6" WIDE COLD ROLLED
1 40 METRIC TON
LIST OF MACHINERY, EQUIPMENT FOR HYDRO MECHANICAL PENSTOCK PIPES/STEEL POLES & ACCESSORIES
CNC SHEET ROLLING MACHINE 2 I) 12 X 3000 MM 1I) 45 X 3000 MM
AUTOMATIC MIG WELDING MACHINE COLUMN & BOOM VERTICAL STRO 2000 MM HORIZONTAL STROKE 3000 MM SR NO. 120600
WELD AMPS-1200 MAX. HAND WE AMPS-1000 AUTOMATIC SUB MERGE ARC WELDING MACHINE 1 MAX. CONT. AUTO WELD AMPS-10 VERTICAL STOCK-2000 MM HORIZONTAL STOCK – 3000 MM
HYDRAULIC GATE SHEARING MACHINE 1 8 X 3200 MM
CNC PRESS BRACK MACHINE 1 CP-350X2MT LENGTH-4.5MTS X 2
BEVELLING MACHINES 1 MAX PLATE THICK-40MM
CNC PLASMA ARC CUTTING MACHINE 1 MAX PLATE THICK-25MM
ULTRASONIC TESTING EQUIPMENT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
PORTABLE X – RAY MACHINE 1 VIEW PORT-200X60 MM VIEW PIECES DENSITY - <4.0 D CONTINUOUS HIGHEST BRIGHTNES – 12 HRS.
SAND BLAST MACHINE UNITS 1

Note: M/C = Machine, MFD = Manufactured, MT = Metric Ton Updated as on $17^{\rm th}$ June, 2014









OUR CLIENTS



















You can contact MSI in a number of ways



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Duhabi-3, Sunsari, Nepal

Tel: 977-025-540505 / 540122 / 540404

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Email: mainawati_duhabi@wlink.com.np