

# Shib Dass & Sons Private Limited



**Head Office**  
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**Uttar Pradesh Regional Office**  
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**Rajasthan Regional Office**  
Shop No. 11, Hari Ram Palace  
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## ERW STEEL TUBES CONFORMING TO IS:1239(Pt-1) EQUIVALENT TO BS:1387 & STRUCTURAL TUBES CONFORMING TO IS:1161

SERIES			LIGHT					MEDIUM					HEAVY				
NOMINAL BORE		O.D.	OUTSIDE DIA.		WALL THICK.	WEIGHT		OUTSIDE DIA.		WALL THICK.	WEIGHT		OUTSIDE DIA.		WALL THICK.	WEIGHT	
INCH	mm	mm	(MIN.) mm	(MAX.) mm	mm	P/E Kg/m	S/S Kg/m	(MIN.) mm	(MAX.) mm	mm	P/E Kg/m	S/S Kg/m	(MIN.) mm	(MAX.) mm	mm	P/E Kg/m	S/S Kg/m
1/2	15	21.3	21.0	21.4	2.0	0.947	0.956	21.0	21.8	2.6	1.21	1.22	21.0	21.8	3.2	1.44	1.45
3/4	20	26.9	26.4	26.9	2.3	1.38	1.39	26.5	27.3	2.6	1.56	1.57	26.5	27.3	3.2	1.87	1.88
1	25	33.7	33.2	33.8	2.6	1.98	2.00	33.3	34.2	3.2	2.41	2.43	33.3	34.2	4.0	2.93	2.95
1-1/4	32	42.2	41.9	42.5	2.6	2.54	2.57	42.0	42.9	3.2	3.10	3.13	42.0	42.9	4.0	3.79	3.82
1-1/2	40	48.3	47.8	48.4	2.9	3.23	3.27	47.9	48.8	3.2	3.56	3.60	47.9	48.8	4.0	4.37	4.41
2	50	60.3	59.6	60.2	2.9	4.08	4.15	59.7	60.8	3.6	5.03	5.10	59.7	60.8	4.5	6.19	6.26
2-1/2	65	76.1	75.2	76.0	3.2	5.71	5.83	75.3	76.6	3.6	6.42	6.54	75.3	76.6	4.5	7.93	8.05
3	80	88.9	87.9	88.7	3.2	6.72	6.89	88.0	89.5	4.0	8.36	8.53	88.0	89.5	4.8	9.90	10.10
4	100	114.3	113.0	113.9	3.6	9.75	10.00	113.1	115.0	4.5	12.20	12.50	113.1	115.0	5.4	14.50	14.80
5	125	139.7	-	-	4.5	15.00	-	138.5	140.8	4.8	15.90	16.40	138.5	140.8	5.4	17.90	18.40
6	150	165.1	-	-	4.5	17.80	-	163.9	166.5	4.8	18.90	19.50	163.9	166.5	5.4	21.30	21.90
6	150	168.3	-	-	4.5	18.20	-	-	-	4.8	19.40	-	-	-	H1-5.4	21.70	-
6	150	168.3	-	-	-	-	-	-	-	-	-	-	-	-	H2-6.3	25.20	-
7	175	193.7	-	-	4.8	22.40	-	-	-	5.4	25.10	-	-	-	5.9	27.30	-
8	200	219.1	-	-	4.8	25.40	-	-	-	5.6	29.50	-	-	-	5.9	31.00	-
10	250	273.0	-	-	-	-	-	-	-	-	-	-	-	-	5.9	38.90	-
12	300	323.9	-	-	-	-	-	-	-	-	-	-	-	-	6.3	49.30	-
14	350	355.6	-	-	-	-	-	-	-	-	-	-	-	-	8.0	68.60	-

- NOTE: (I) IS:1239 & BS:1387 cover sizes upto 100 mm NB all series and 125 & 150 mm NB medium & heavy series, plain end & screwed and socketed ends.  
(II) IS:1161 covers all sizes Plain End only.  
(III) IS:1161 O.D. Tolerance will be as per dimension tolerance table, Above table min/max O.D. applicable for IS:1239 only.  
(IV) Hydro test Pressure - 5 MPa (IS:1161 Hydro Test not required.)



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## ERW PIPES FOR WATER & SEWAGE CONFORMING TO IS:3589 & WATER WELL CASING CONFORMING TO IS:4270

SIZE		CONVENTIONAL MASS PER UNIT LENGTH (Kg/m)																	
NB	OD	WALL THICKNESS (mm)																	
mm	mm	3.20	3.60	4.00	4.30	4.65	4.85	5.00	5.20	5.40	5.60	6.00	6.35	6.40	7.00	7.10	8.00	9.50	10.00
100	114.30	-	-	-	-	-	-	13.48	-	14.50	-	16.02	-	-	-	-	-	-	-
125	141.30	-	-	-	-	-	-	16.81	-	18.10	-	20.02	-	-	-	-	-	-	-
150	168.30	13.03	14.62	16.21	17.39	18.77	19.55	20.13	20.91	21.69	-	24.01	25.36	25.55	27.84	28.22	-	-	-
175	193.70	-	16.88	18.71	20.08	21.68	22.59	23.27	24.17	25.07	-	27.77	29.34	29.56	32.23	32.67	36.63	-	-
200	219.10	-	19.13	21.22	22.78	24.59	25.62	26.40	27.43	28.46	29.48	31.53	33.31	33.57	36.61	37.12	41.65	49.10	51.56
250	273.10	-	23.93	26.54	28.50	30.78	32.08	33.06	34.35	35.65	36.94	39.52	41.77	42.09	45.93	46.57	52.30	61.75	64.88
300	323.90	-	-	31.55	33.89	36.61	38.16	39.32	40.87	42.41	43.96	47.04	49.73	50.11	54.70	55.47	62.32	73.65	77.41
350	355.60	-	-	34.68	37.25	40.24	41.95	43.23	44.93	46.63	48.33	51.73	54.69	55.11	60.18	61.02	68.57	81.08	85.22

- NOTE:
- (I) IS:4270 covers Pipe size 100 mm to 350 mm NB & IS:3589 covers Pipe size 168.3 mm OD to 355.6 mm OD.
  - (II) IS:4270 covers Wall Thickness upto 10 mm.
  - (III) Other thickness may be supplied as per agreement.
  - (IV) Max. Hydro Test Pressure IS:3589 -5 MPa, IS:4270 - 7 MPa.

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## ERW LINE PIPES CONFORMING TO API 5L, IS:1978, IS:1979 AND ASTM A-53

5L-0135

OD		WALL THICKNESS		WEIGHT (P/E)		MINIMUM HYDRO TEST PRESSURE (STD) X 100 KPa								
INCH	mm	INCH	mm	Lb/Ft	Kg/m.	A	B	X-42	X-46	X-52	X-56	X-60	X-65	X-70
3-1/2	88.9	0.125	3.20	4.51	6.76	91	106	125	138	156	168	179	194	205
	88.9	0.141	3.60	5.06	7.57	102	119	141	156	175	190	202	205	205
	88.9	0.156	4.00	5.58	8.37	113	132	157	173	194	205	205	205	205
	88.9	0.172	4.40	6.12	9.17	125	146	172	190	205	205	205	205	205
	88.9	0.188	4.80	6.66	9.95	136	159	188	205	205	205	205	205	205
	88.9	0.216	5.50	7.58	11.31	156	170	205	205	205	205	205	205	205
4-1/2	114.3	0.125	3.20	5.85	8.77	71	82	97	108	121	131	139	151	163
	114.3	0.141	3.60	6.57	9.83	79	93	110	121	136	147	157	170	183
	114.3	0.156	4.00	7.24	10.88	88	103	122	134	151	164	174	189	204
	114.3	0.172	4.40	7.96	11.92	97	113	134	148	166	180	192	205	205
	114.3	0.188	4.80	8.67	12.96	106	123	146	161	181	197	205	205	205
	114.3	0.203	5.20	9.32	13.99	115	134	158	175	197	205	205	205	205
	114.3	0.219	5.60	10.02	15.01	123	144	170	188	205	205	205	205	205
	114.3	0.237	6.00	10.80	16.02	132	154	183	202	205	205	205	205	205
	114.3	0.250	6.40	11.36	17.03	141	165	195	205	205	205	205	205	205
5-9/16	141.3	0.125	3.20	7.27	10.90	57	67	79	87	98	106	113	122	132
	141.3	0.156	4.00	9.02	13.54	71	83	99	109	122	132	141	153	165
	141.3	0.188	4.80	10.80	16.16	86	100	118	130	147	159	169	183	198
	141.3	0.219	5.60	12.51	18.74	100	117	138	152	171	185	197	205	205
	141.3	0.258	6.60	14.63	21.92	117	137	163	179	202	205	205	205	205
6-5/8	168.3	0.125	3.20	8.69	13.03	48	56	63	71	83	91	103	111	118
	168.3	0.141	3.60	9.77	14.62	54	63	71	83	93	103	116	125	133
	168.3	0.156	4.00	10.79	16.21	60	70	83	93	103	114	128	139	148
	168.3	0.172	4.40	11.87	17.78	66	77	91	103	114	125	141	153	163
	168.3	0.188	4.80	12.94	19.35	72	84	100	114	124	137	154	167	178
	168.3	0.203	5.20	13.94	20.91	78	91	108	124	137	154	167	181	192
	168.3	0.219	5.60	15.00	22.47	84	98	117	134	148	160	171	185	195
	168.3	0.250	6.40	17.04	25.55	96	112	133	152	166	180	195	205	205
	168.3	0.280	7.10	18.99	28.22	106	124	145	165	183	205	205	205	205
8-5/8	219.1	0.156	4.00	14.12	21.22	46	54	63	71	83	91	103	111	118
	219.1	0.188	4.80	16.96	25.37	55	64	75	83	95	105	118	128	136
	219.1	0.203	5.20	18.28	27.43	60	70	83	93	103	114	128	139	148
	219.1	0.219	5.60	19.68	29.48	64	75	88	98	111	123	138	150	159
	219.1	0.250	6.40	22.38	33.57	74	86	100	114	127	140	158	171	182
	219.1	0.277	7.00	24.72	36.61	81	94	109	124	139	153	173	187	199
	219.1	0.312	7.90	27.73	41.14	91	106	123	139	157	173	195	205	205
	219.1	0.322	8.20	28.58	42.65	94	110	127	145	163	180	202	205	205
	219.1	0.344	8.70	30.45	45.14	100	117	135	153	173	191	205	205	205
	219.1	0.375	9.50	33.07	49.10	109	127	147	166	189	205	205	205	205

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OD		WALL THICKNESS		WEIGHT (P/E)		MINIMUM HYDRO TEST PRESSURE (STD) X 100 KPa								
INCH	mm	INCH	mm	Lb/Ft	Kg/m.	A	B	X-42	X-46	X-52	X-56	X-60	X-65	X-70
10-3/4	273.1	0.156	4.00	17.67	26.54	37	43	72	80	90	97	103	112	121
	273.1	0.188	4.80	21.23	31.76	44	52	87	96	108	117	124	134	145
	273.1	0.203	5.20	22.89	34.35	48	56	94	104	117	126	134	146	157
	273.1	0.219	5.60	24.65	36.94	52	60	101	112	125	136	145	157	169
	273.1	0.250	6.40	28.06	42.09	59	69	116	127	143	155	165	179	193
	273.1	0.279	7.10	31.23	46.57	66	76	128	141	159	172	183	199	205
	273.1	0.307	7.80	34.27	51.03	72	84	141	155	175	189	201	205	205
	273.1	0.344	8.70	38.27	56.72	80	94	157	173	195	205	205	205	205
12-3/4	323.9	0.172	4.40	23.13	34.67	34	40	67	74	83	90	96	104	112
	323.9	0.188	4.80	25.25	37.77	37	44	73	81	91	98	105	113	122
	323.9	0.203	5.20	27.23	40.87	40	47	79	87	98	106	113	123	132
	323.9	0.219	5.60	29.34	43.96	44	51	85	94	106	115	122	132	143
	323.9	0.250	6.40	33.41	50.11	50	58	97	107	121	131	139	151	163
	323.9	0.281	7.10	37.46	55.47	55	64	108	119	134	145	155	168	181
	323.9	0.312	7.90	41.48	61.56	61	72	120	133	149	162	172	187	201
	323.9	0.330	8.40	43.81	65.35	65	76	128	141	159	172	183	198	205
	323.9	0.344	8.70	45.62	67.62	68	79	132	146	164	178	189	205	205
	323.9	0.375	9.50	49.61	73.65	74	86	145	160	179	194	205	205	205
14	355.6	0.188	4.80	27.76	41.52	34	40	67	73	83	89	95	103	111
	355.6	0.203	5.20	29.94	44.93	37	43	72	80	89	97	103	112	121
	355.6	0.219	5.60	32.26	48.33	40	46	78	86	96	104	111	120	130
	355.6	0.250	6.40	36.75	55.11	45	53	89	98	110	119	127	138	148
	355.6	0.281	7.10	41.21	61.02	50	59	98	109	122	132	141	153	165
	355.6	0.312	7.90	45.65	67.74	56	65	110	121	136	147	157	170	183
	355.6	0.344	8.70	50.22	74.42	62	72	121	133	150	162	173	187	202
	355.6	0.375	9.50	54.62	81.08	67	79	132	145	163	177	188	204	205

NOTE: API 5L Gr. A, IS:1978 Yst-210, ASTM A-53 Gr. A are equivalent. API 5L Gr. B, IS:1978 Yst-240, ASTM A-53 Gr. B are equivalent. API 5L Gr. X-42, X-46, X-52, X-60, X-65, X-70 & IS:1979 Gr. Yst-290. 320. 360. 410. 450. 480 are respectively equivalent.



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## ERW Boiler, Super Heater, Heat Exchanger, Condenser & Air Heater Tubes & Pipes

Conforming to BS 3059(Pt-I & II), BS 6323 (Pt-V), ASTM, A-178, A-214, A-333, A-334, IS:1914 (Pt-IV), IS 2416 (Pt-IV), IS:11714 (Pt-III).

Out side Diameter (mm)	Conventional Mass per Unit length in kg/m for a Tube Thickness in mm of:																										
	2.03	2.34	2.64	2.95	3.25	3.38	3.56	3.66	3.68	3.91	4.06	4.50	5.16	5.49	5.74	6.02	6.35	6.55	7.04	7.11	7.80	7.92	8.18	8.38	9.27	9.52	
33.4 / 33.7	1.59	1.81	2.02	2.24	2.44	2.53	-	2.71	-	-	2.97	3.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38.0	1.80	2.06	2.30	2.55	2.79	-	-	3.10	-	-	3.40	3.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42.2 / 42.4	-	2.31	2.59	2.87	3.14	-	3.41	3.50	-	-	3.84	4.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44.5	-	2.43	2.73	3.02	3.31	-	-	3.69	-	-	4.05	4.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48.3	-	2.65	2.97	3.30	3.61	-	-	4.03	4.05	-	4.43	4.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50.8	-	2.80	3.14	3.48	3.81	-	-	4.25	-	-	4.68	5.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57.2	-	-	3.55	3.95	4.32	-	-	4.83	-	-	5.32	5.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60.3	-	-	3.75	4.17	4.57	-	-	5.11	-	5.44	5.63	6.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
63.5	-	-	3.96	4.40	4.83	-	-	5.40	-	-	5.95	6.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73.0	-	-	-	-	-	-	-	-	-	-	-	-	8.63	-	-	-	-	-	-	-	-	-	-	-	-	-	-
76.1	-	-	-	5.32	5.84	-	-	6.54	-	-	7.21	7.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
88.9	-	-	-	-	6.86	-	-	7.69	-	-	8.49	9.37	-	11.29	-	-	-	-	-	-	-	-	-	-	-	-	-
101.6	-	-	-	-	-	-	-	8.84	-	-	9.77	10.80	-	-	13.57	-	-	-	-	-	-	-	-	-	-	-	-
114.3	-	-	-	-	-	-	-	-	-	-	11.04	12.20	-	-	-	16.07	-	-	-	-	-	-	-	-	-	-	-
127.0	-	-	-	-	-	-	-	-	-	-	-	13.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
141.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.77	-	-	-	-	-	-	-	-
168.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28.26	-	-	-	-	-
219.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33.31	-	36.81	-	-	-	42.55	-	-	-
273.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41.75	-	-	-	51.01	-	-	-	60.29	-
323.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49.71	-	-	-	-	-	-	65.18	-	73.78
355.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54.69	-	-	-	-	-	67.90	-	-	81.25

NOTE: Leak Test - Hydro Test / NDT test as per specification requirements.