STEEL PART LIST

Part no.		Section (mm)	Quantity	Working Drawing (Dimension in mm)	Length Single/pc mm	Length total m	Weight kg/pc	Weight total kg	Surface to be painted m2/pc	Surface to be painted total m2	Total weight (finished) Galvanized kg	Remarks
1	a	Flat 80/8 ℓ = 500	16	5 holes ø 14 thickness = 8	500	8.00	2.46	39.36	0.08	1.28	40.14	
	b	Flat 160/10 ℓ = 1100	32	4 holes ø 17 ; 3 holes ø 14 ; 1 hole ø 70 +0.074 -0.000 ; thickness=10	1100	35.20	13.34	426.88	0.36	11.52	433.91	Gas cutting prohibited for part no. 1b
	c	IS Square bar 80 ℓ = 150	16	Drill ø10, Drill ø46, Turned, R=25, 1 hole ø 46, 2 holes ø10	150	2.40	4.90	78.40	0.04	0.64	78.79	
	d	Rod ø 10 ℓ = 110	32		110	3.52	0.07	2.24	—	—	2.31	Weight of one - welded unit = 46.47 kg - Galvanized unit = 47.04 kg
	e	Rod ø 45 ℓ = 1000	16	thread M45 — THREAD DATA Major Dia = 45.000 Minor Dia = 39.479 Pitch = 4.5	1000	16.00	11.52	184.32	0.05	0.80	185.24	Part nos. 1 (a-f) to be welded together as shown in welding detail.
	f	Hexagonal nut M 45	16	Thread — THREAD DATA Major Dia=45.000 Minor Dia=40.129 Pitch = 4.5	—	—	0.77	12.32	Galvanized			
2		Flat 40/6 ℓ = 460	16	4 holes ø 14 thickness = 6	460	7.36	0.84	13.44	—	—	—	
3	a	Channel ISMC 200-500	16	4 holes ø 17 ; 1 hole ø 90 +0.087 -000 ; holes for socket cable end	500	8.00	10.71	171.36	0.25	4.00	173.80	
	b	Plate 183/60/10	32	Slope to suit channel flange. (see welding detail.) Grind as necessary	—	—	0.79	25.28	0.03	0.96	25.87	
	c	Plate 480/180/8	16	1 hole ø 90+0.087 -000 Bore after welding to part no 3a. thickness = 8	—	—	5.03	80.48	0.08	1.28	81.26	Weight of one - welded unit = 45.68 kg - Galvanized unit = 46.30 kg
	d	Plate 200/66/10	32	thickness = 10	—	—	1.04	33.28	0.03	0.96	33.87	
	e	Plate 220/100/12	32	1 hole ø 47 thickness = 12	—	—	1.72	55.04	0.03	0.96	55.62	Part nos. 3 (a-e) to be welded together as shown in welding detail.
4		Pin ø 90 ℓ = 180	8	2 holes ø 10	180	1.44	8.88	71.04	Apply grease only		71.35	
5		Split pin ø 8 ℓ = 150	16		—	—	0.06	0.96	Bright steel			
6	a	Channel ISMC 125-1000	32	4 holes ø 17 6 holes ø 14	1000	32.00	12.61	403.52	—	—	—	Weight of one welded unit = 13.25 kg
	b	Plate 120/120/6	32	4 holes ø 17 thickness = 6 Bore after welding to part no. 6a	—	—	0.64	20.48	—	—	—	Part nos. 6 (a-b) to be welded together as shown in welding detail.
7		Flat 40/6 ℓ = 1160	16	4 holes ø 14 thickness=6	1160	18.56	2.17	34.72	—	—	—	
8		Angle 50/50/6 ℓ = 630	16	6 holes ø 14	630	10.08	2.79	44.64	—	—	—	

Part no.	Section (mm)	Quantity	Working Drawing (Dimension in mm)	Length Single/pc mm	Length total m	Weight kg/pc	Weight total kg	Surface to be painted m2/pc	Surface to be painted total m2	Total weight (finished) Galvanized kg	Remarks
9	Flat 100/10 ℓ = 1900	64	8 holes ø 14 ; thickness = 10	1900	121.60	14.77	945.28	—	—	—	
10	Angle 50/50/6 ℓ = 800	2	6 holes ø 14 thickness = 6	800	1.60	3.56	7.12	—	—	—	
11	Angle 50/50/6 ℓ = 3230	2	Cutoff the flange — 19 holes ø 14	3230	6.46	14.02	28.04	—	—	—	
12	Angle 50/50/6 ℓ = 3020	2	Cutoff the flange — 11 holes ø 14	3020	6.04	13.14	26.28	—	—	—	
13	Hexagonal nut M 45	50	This part is identical to part no. 1f	—	—	0.77	38.50	—	—	—	2 pc. extra.
14	Hexagonal bolt M 12 x 40 IS 1363	245	Thread M12	—	—	0.049	12.01	Galvanized			9 pcs. extra. Ref: IS 1363-1967
15	Hexagonal bolt M 16 x 60 IS 1363	400	Thread M16	—	—	0.12	48.00	Galvanized			16 pcs. extra. Ref: IS 1363-1967
16	Hexagonal nut M 12 IS 1363	245	Thread M12	—	—	0.018	4.41	Galvanized			9 pcs. extra. Ref: IS 1363-1967
17	Hexagonal nut M 16 IS 1363	400	Thread M16	—	—	0.032	12.80	Galvanized			16 pcs. extra. Ref: IS 1363-1967
18	Plain washer ø 17 thickness = 4	400		—	—	0.015	6.00	Galvanized			16 pcs. extra.
19	Rod Ø 25 ℓ = 2650	2	Rod to be bent to form the hook; R=15 (inside); Surface to be painted.	2650	5.30	10.20	20.40	0.04 (Partly painted)	0.08	20.66	Used for fixing Tirfor Machine during erection.
	TOTAL (1-19) =						2'846.60 kg		22.44 m²	1202.82 kg	

ONLY WHEN REQUIRED

Part no.	Section (mm)	Quantity	Working Drawing (Dimension in mm)	Length Single/pc mm	Length total m	Weight kg/pc	Weight total kg	Surface to be painted m2/pc	Surface to be painted total m2	Total weight (finished) Galvanized kg	Remarks
20	Rod ø 25 ℓ =		Extra length for hook = 250 Weight = 3.85 kg/m					—	—	—	Ribbed torsteel Cold bending required.
21	Plate 240/220/16		Plate bolted to part 3a when cable end is socketed; 1 hole ø 43, 4 holes ø 17; When this plate is used for socketed cable end, part no. 4 and 5 are not necessary.	—	—	6.34		0.12			Weight (finished) Galvanized = (0.61/m² x Surface area + Wt. of steel) kg
22	Hexagonal bolt M 16 x 60 IS 1363		Identical to part no. 15	—	—	0.12		Galvanized			Ref: IS 1363-1967
23	Plain washer ø17 thickness = 4		Identical to part no. 18	—	—	0.015		Galvanized			
24	Hexagonal nut M 16 IS 1363		Identical to part no. 17	—	—	0.032		Galvanized			Ref: IS 1363-1967
25	Taper washer ø18 IS 5372		Taper washer nominal hole size ø 18 as per ISI	—	—	0.035		Galvanized			Ref: IS 5372-1975
26	Flat 100/10 ℓ = 1545		12 holes ø 17 ; thickness = 10	1545		11.91		—	—		Use for extending the length of part no. 9. (Deadman anchorage)
27	Mortar container Sheet t = 0.5		Total about 250 holes ø 4	1400		0.21		—	—		Two units per anchor bar (20)
	TOTAL (20-27) =						kg		m²	kg	

28	Open thimble	8	Thimble to ISI standard for cable ø ..... mm	—	—	*		Galvanized		Ref: IS 2315 — 1978
29	Bulldog grip	*	M.S. forged bulldog grip to ISI standard for cable ø ..... mm	—	—	*		Galvanized		Ref: IS 2361 — 1970
	GRAND TOTAL =						kg		

Steel parts to be Galvanized :	1188.08 kg	Hot Dip Galvanization : IS 2629 , IS 2633
Steel parts to be painted :	22.44 m2	Weight of Zinc Coat : 0.61 kg / m²

Cable ø mm	Bulldog grips for one cable	Weight (kg/pc) Thimble	Weight (kg/pc) B. grip
36	7	2.75	1.85
40	8	3.20	2.40