

Part no.	Section (mm)	Quantity	Working Drawing (Dimension in mm)	Length Single/pc mm	total m	Weight kg/pc	total kg	Surface to be m2/pc m2	to be painted total m2	Total weight (finished) Galvanized kg	Remarks
1	a Rod ϕ 25 ℓ = 2150	2		2150	4.30	7.80	15.60	—	—	15.81	Difficult part for transportation. Weight of one welded unit = 7.89kg. Galvanized unit = 8.00kg.
	b Flat 50/6 ℓ = 50	2		50	0.10	0.09	0.18	—	—	0.19	Part nos. 1(a-b) to be welded together as shown in welding detail.
2	Rod ϕ 62 ℓ = 150	1		150	0.15	2.44	2.44	0.03	0.03	2.46	
3	a Plate 500/160/6	1		—	—	3.74	3.74	—	—	—	
	b Channel ISMC 75-500	2		500	1.00	3.40	6.80	—	—	—	
	c Plate 150/90/6	1		—	—	0.61	0.61	—	—	—	Weight of one welded unit = 11.99kg.
	d Plate 100/90/6	2		—	—	0.42	0.84	—	—	—	Part nos. 3(a-d) to be welded together as shown in welding detail.
4	Rod ϕ 12 ℓ = 130	2		130	0.26	0.11	0.22	—	—	—	
5	a Angle 40/40/6 ℓ = 500	1		500	0.50	1.71	1.71	—	—	—	
	b Angle 40/40/6 ℓ = 44	2		44	0.09	0.15	0.30	—	—	—	Weight of one welded unit = 2.01kg. Part nos. 5(a-b) to be welded together as shown in welding detail.
6	Angle 40/40/6 ℓ = 372	2		372	0.74	1.17	2.34	—	—	—	
7	Rod ϕ 20 ℓ = 1963	1		1963	1.96	4.91	4.91	0.02 (partly painted)	0.02	4.93	Used as erection hook (for tirfor machine)
8	Hexagonal nut M 24 IS 1363	11		—	—	0.10	1.10	Galvanized			1 pc. extra. Ref: IS 1363-1967
9	Hexagonal screw M 12 x 40 IS 1363	5		—	—	0.05	0.25	Galvanized			1 pc. extra Ref: IS 1363-1967
10	Hexagonal nut M12 IS 1363	9		—	—	0.018	0.16	Galvanized			1 pc. extra Ref: IS 1363-1967
11	Open thimble	1	Thimble to ISI standard for cable ϕ 26 mm	—	—	0.75	0.75	Galvanized			Ref: IS 2315-1978
12	Bulldog grip	5	M.S. forged bulldog grip to ISI standard for cable ϕ 26 mm	—	—	1.10	5.50	Galvanized			Ref: IS 2361-1970
TOTAL (1-12) For standard anchorage length =						47.45 kg	0.05 m ²	23.39kg			

13	a Rod ϕ 50 $\ell = 100$	2		100	0.20	1.21	2.42	—	—	—	Weight of one welded unit = 1.30 kg.
	b Rod ϕ 10 $\ell = 150$	2		150	0.30	0.09	0.18	—	—	—	Part nos. 13(a-b) to be welded together as shown in welding detail.
14	a Rod ϕ 25 $\ell = 490$	2		490	0.98	1.78	3.56	—	—	—	Weight of one welded unit = 1.87 kg.
	b Flat 50/6 $\ell = 50$	2		50	0.10	0.09	0.18	—	—	—	Part nos. 14(a-b) to be welded together as shown in welding detail.
TOTAL (1-14) For extended anchorage length =						53.79 kg	0.05 m ²	23.39kg			
15	Rod ϕ 25 $\ell =$										Difficult part for transportation. Ribbed for steel. Cold bending required.
	Sheet 1400/39/0.5			1400	0.21						Mortar container for part 15. Two units per anchor bar (15).
TOTAL (1-12+15+16) For rock anchorage block =						...	0.05 m ²	23.39kg			

Steel parts to be Galvanized :	23.13 kg	Hot Dip Galvanization : IS 2629, IS 2633
Steel parts to be painted :	0.05 m ²	Weight of Zinc Coat : 0.61 kg / m ²

NOTES :

- All nuts have to be retightened after erection.
- All nongalvanized threads have to be painted in site with coaltar after retightening of the nuts.
- All steelparts have to be painted with final coat after bridge erection, Only if not galvanized.
- To obtain uniformity, use of templates and jigs is mandatory for holing, bending and welding of assembly.
- All parts or bundles and packages with identical parts have to be labelled or marked with the respective part number by the workshop.

Serial number	Item	Total weight (kg)
1	Structural Steel Part nos. 1-12 :	39.69
	Part nos. 13-16 :	...
	Total :	...
2	Screw, bolts, nuts & washers Part nos. 8-10 :	1.51
3	Reinforcement Part nos. 15	...
Total 1+2+3		...

TOTAL TRANSPORTATION WEIGHT	
Part nos. 1-12 :	47.71
Part nos. 13-16 :	...
Total	...

(Pieces)	
Thimbles for Cable ϕ 26 mm	1
Bulldog grips for cable ϕ 26 mm	5

MoLD / DoLIDAR / Trail Bridge Section Long Span Trail Bridge Standard	
Bridge No:	Name:
Span:	
Working & Assembly Drawing :	
Windguy Cable Anchorage	
Capacity : 130 kN	
1 Cable ϕ 26 mm	
Units :	1 Unit $\equiv$ Steelparts for one block
Date: August 2004	Drawing No. 41