

STEELPART LIST

Part no.	Section (mm)	Quantity	Working Drawing (Dimension in mm)	Length		Weight		Surface to be painted		Total weight (finished) Galvanized kg	Remarks
				Single/pc mm	total m	kg/pc	total kg	m ² /pc	total m ²		
I	Rod ϕ 16 $l = 32.5$	2		325	0.650	0.504	1.008	0.010	0.020	1.020	Eye end bolt for windtie connection with Walkway Cross Beam
2	a Flat 40/10 $l = 90$	2		90	0.180	0.233	0.466	0.009	0.018	0.477	Weight of one welded unit = 0.688 Galvanized unit = 0.702 Part nos. 2 (a - c) to be welded together as shown in welding detail
	b Open thimble	2	Thimble to ISI standard for cable ϕ 13mm	—	—	0.120	0.240	Galvanized	—	—	
	c Rod ϕ 12 $l = 377$	2		377	0.754	0.335	0.670	0.014	0.028	0.687	
3	Plate 40/22 $l = 155$	4		155	0.620	0.801	3.204	0.021	0.084	3.255	
4	Hexagonal bolt M 16 x 80 IS 1363	2.10		—	—	0.169	0.355	Galvanized	—	—	5% pcs. extra. Ref. IS 1363-1967
5	Hexagonal nut M 16 IS 1363	6.30		—	—	0.032	0.202	Galvanized	—	—	5% pcs. extra. Ref. IS 1363-1967
6	Spring washer ϕ 17	2.1	Spring washer as per IS 3063-1972	—	—	0.011	0.023	Galvanized	—	—	5% pcs. extra.
7	Hexagonal bolt M 20 x 100 IS 1363	2.1		—	—	0.301	0.632	Galvanized	—	—	5% pcs. extra. Ref. IS 1363-1967
8	Hexagonal nut M 20 IS 1363	8.40		—	—	0.061	0.512	Galvanized	—	—	5% pcs. extra. Ref. IS 1363-1967
9	Hexagonal bolt M 20 x 90 IS : 1363	2.1		—	—	0.277	0.582	Galvanized	—	—	5% pcs. extra Ref. IS 1363-1967
10	Open thimble	2	Thimble to ISI standard for cable ϕ 13 mm	—	—	0.120	0.240	Galvanized	—	—	Ref. IS: 2315 - 1978
11	Bulldog grip	12	M.S. forged bulldog grip to ISI standard for cable ϕ 13 mm	—	—	0.280	3.360	Galvanized	—	—	Ref. IS 2361 - 1970
TOTAL (I-II) =				11.494 kg		0.150 m ²		5.439 kg			

Steel parts to be Galvanized :	5.35 kg	Hot Dip Galvanization: IS: 2629, IS: 2633
Steel parts to be painted :	0.15 m ²	Weight of Zinc Coat: 0.61 kg/m ²

NOTES :

- 1) All nuts have to be retightened after erection.
- 2) All nongalvanized threads have to be painted in site with coaltar after retightening of the nuts.
- 3) All steel parts have to be painted with final coat after bridge erection, only if not Galvanized
- 4) To obtain uniformity, use of templates and jigs is mandatory for holing, bending and welding of assembly.
- 5) 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	5.34
2	Screws, bolts, nuts, washers	2.30
Total 1+2		7.64

		(Pieces)
Thimbles for Cable ϕ 13 mm		4
Bulldog grips for cable ϕ 13 mm		12

TOTAL TRANSPORTATION WEIGHT : 11.58 kg

MoLD / DoLIDAR / Trail Bridge Section
Long Span Trail Bridge Standard

Bridge No: _____ Name: _____

Span: _____

Working & Assembly Drawing

Windtie for
Windguy Cable ϕ 32 mm
Capacity : 800 kg
Windtie Cable ϕ 13 mm

Units : _____ 1 Unit = Steel parts for one pair of windties

Date: _____ Drawing No. 11