

## STEELPART LIST

Part no.	Section (mm)	Quantity	Working Drawing (Dimension in mm)	Length Single/pc mm	total m	Weight kg/pc	total kg	Surface to be painted m <sup>2</sup> /pc	to be total m <sup>2</sup>	Total weight (finished) Galvanized kg	Remarks
I	Rod $\phi$ 16 L = 325	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 kg -Galvanized = 0.702kg Part nos. 2 (a-c) to be welded together as shown in welding detail.
	b Open thimble	2	Thimble to ISI standard for cable $\phi$ 13mm	—	—	0.120	0.240	Galvanized			
	c Rod $\phi$ 12 L = 377	2		377	0.754	0.335	0.670	0.014	0.028	0.687	
3	Square bar 40 L = 185	4		185	0.740	1.606	6.424	0.030	0.120	6.497	
4	Hexagonal bolt M 16 x 110 IS 1363	2.1		—	—	0.200	0.420	Galvanized			5% pcs. extra. Ref: IS 1363-1967
5	Hexagonal nut M 16 IS 1363	6.3		—	—	0.032	0.202	Galvanized			5% pcs. extra. Ref: IS 1363-1967
6	Spring washer $\phi$ 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	8.4		—	—	0.061	0.512	Galvanized			5% pcs. extra. Ref: IS 1363-1967
9	Hexagonal bolt M 20 x 140 IS 1363	2.1		—	—	0.400	0.840	Galvanized			5% pcs. extra. Ref: IS 1363-1967
10	Open thimble	2	Thimble to ISI standard for cable $\phi$ 13mm	—	—	0.120	0.240	Galvanized			Ref: IS 2315-1978
11	Bulldog grip	12	M.S. forged bulldog grip to ISI standard for cable $\phi$ 13mm	—	—	0.280	3.360	Galvanized			Ref: IS 2361-1970
TOTAL (I - 11) = 15.037kg 0.186m <sup>2</sup> 8.681kg											

Steel parts to be Galvanized :	8.57 kg	Hot Dip Galvanization : IS 2629, IS 2633
Steel parts to be Painted :	0.19 m <sup>2</sup>	Weight of Zinc Coat : 0.61 kg / m <sup>2</sup>

## 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	8.56
2	Screws, bolts, nuts, washers	2.29
Total 1 + 2		11.85
Thimbles for Cable $\phi$ 13 mm		4
Bulldog grips for cable $\phi$ 13 mm		12

TOTAL TRANSPORTATION WEIGHT : 15.15 kg

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

Bridge No:

Name:

Span:

Working &amp; Assembly Drawing :

**Windtie for Double  
Windguy Cable  $\phi$  40 mm**

Capacity : 800 kg

Windtie Cable  $\phi$  13 mmUnits : ..... | Unit  $\equiv$  Steel parts, for one pair of windties

Date: August 2004

Drawing No. 16