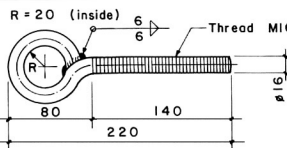
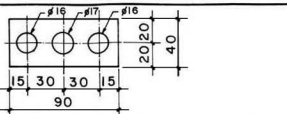
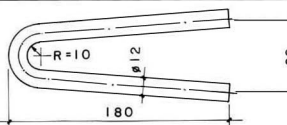
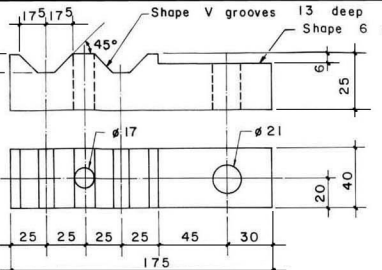
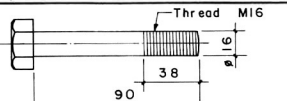
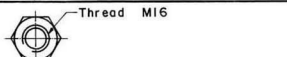
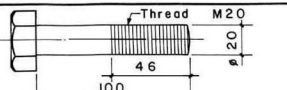
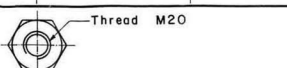
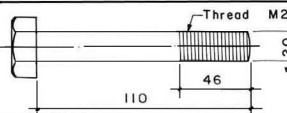


STEELPART LIST

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 ² /pc	total m ²	Total weight (finished) Galvanized kg	Remarks
1	Rod ϕ 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	 1 hole ϕ 17 2 holes ϕ 16 thickness = 10	90	0.180	0.233	0.466	0.009	0.018	0.477	Weight of one welded unit = 0.688kg Galvanized unit = 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 ϕ 13mm	—	—	0.120	0.240	Galvanized			
	c Rod ϕ 12 $l = 377$	2	 Rod to be bent as shown.	377	0.754	0.335	0.670	0.014	0.028	0.687	
3	Plate 40/25 $l = 175$	4	 Shape V grooves 13 deep Shape 6 deep 1 hole ϕ 17 1 hole ϕ 21	175	0.700	1.038	4.152	0.025	0.050	4.182	
4	Hexagonal bolt M 16 x 90 IS 1363	2.1		—	—	0.185	0.388	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 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	8.4		—	—	0.061	0.512	Galvanized			5% pcs. extra. Ref: IS 1363-1967
9	Hexagonal bolt M 20 x 110 IS 1363	2.1		—	—	0.326	0.685	Galvanized			5% pcs. extra. Ref: IS 1363-1967
10	Open thimble	2	Thimble to ISI standard for cable ϕ 13mm	—	—	0.120	0.240	Galvanized			Ref: IS 2315-1978
11	Bulldog grip	12	M.S. forged bulldog grip to ISI standard for cable ϕ 13mm	—	—	0.280	3.360	Galvanized			Ref: IS 2361-1970
TOTAL (1-11) = 12.578kg								0.116m²		6.366kg	

Steel parts to be Galvanized :	6.30 kg	Hot Dip Galvanization : IS 2629, IS 2633
Steel parts to be Painted :	0.12 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 steel parts 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 holding, 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	6.29
2	Screws, bolts, nuts, washers	2.44
Total 1 + 2		8.73
		(Pieces)
Thimbles for Cable ϕ 13 mm		4
Bulldog grips for cable ϕ 13 mm		12

TOTAL TRANSPORTATION WEIGHT : 12.64 kg

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

Bridge No: _____ Name: _____

Span: _____

Working & Assembly Drawing :

**Windtie for Double
Windguy Cable ϕ 32 mm**

Capacity : 800 kg

Windtie Cable ϕ 13 mm

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

Date: August 2004

Drawing No. 14