## SUSPENDER LIST

Suspender number	
Cable centre to centre distance c/c	
Total suspender length L= c/c-542 mm	
Length of extra piece Lr	
Cutting length of extra piece Lc = Lr + 180 or 240	
Number of standard length pieces	
Suspender number	
Cable centre to centre distance c/c	
Total suspender length L=c/c - 542 mm	
Length of extra piece Lr	
Cutting length of extra piece Lc = Lr + 180 or 240	
Number of standard length pieces	
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Part	Т		Length Weight				Surface to be		Total weight				
no	١	Section (mm)	Section (mm) Quantity Working Drawing (Dimension in mm)		Single / pc mm	total total m kg/pc kg		t otal ka	painted total m <sup>2</sup> /pc m <sup>2</sup>		(Finished) Galvanized kg	Remarks	
а	100	Flat 40 / 10		28 35 28 10 2 holes of 17	91	0.09	0.25	0.25	0.01	0.01	0.26		
b	,	Rod of 12 of different lengths		See suspender list for number of suspenders and their lengths, weight	and surfa	ice to b	e painted	/ Galvaniz	d for t	wo third	span		
b	2	Rod of 16 of different lengths		See suspender list for number of suspenders and their length , weight and	surface 1	o be pai	inted / Go	alvanized	for one t	hird spar	at middle	span	
I c		Flat 65/10 L= 110	ľ,	21 34 34 21 110 2 holes of 14 1 hole of 17	110	0. 11	0.52	0.52	0.01	0.01	0. 53		
d	i	Rod ø 12 <u>L</u> = 510	1	R = 15	510	0.51	0.45	0.45	0.02	0.02	0.47	Weight of one -Welded unit = 1,223 kg -Galvanized unit = 1,249 kg Part nos. 1 (a - d) to be welded together as shown in fabrication detail.	
2		Plate 80 / 70 / 3	2	R=7 or 9  R=2  A holes of II  Plate to be forged as shown	_	_	0.12	0.25	0, 01	0.02	0.26		
3		Hexagonal oit M 16 x 120 IS 1363	2.10	Thread M I6  W  X  Provide extra length X = 50, for main cable of 26 B & 32 mm  Use standard length X = 38, for main cable of 36 B or 40 mm	-	_	0.22	0.46	Galva	an ized		5 % extra pieces Ref. IS 1363-1967	
4		Hexagonal ut M 16	4.20	Thread M I6	_	.—	0.03	0.13	Galva	nized I		5% extra pieces Ref. IS  363- 967	
5	+	IS 1363 Spring Washer of 17	1.05	Spring washer as per IS 3063 - 1972	-	-	0. 01	0.01	Galva	nized		Ref. IS   1363-1967	
6		Hexagonal Screw M 10 x 40 IS 1363	4.2	Thread M IO	-	-	0.03	0.14	Galva	nized		5 % extra pieces Ref. IS 1363 - 1967	
7	1	Hexagonal Nut M IO IS 1363	4.2	Thread M IO	_	-	0.01	0.03	Galva	nized		5 % extra pieces Ref. IS   363 -   967	
	1	and the second		b b Shape V grooves 'h' deep (Cable e' h b	151	0.30	1.22	2.44	0.02	0.04	2.47	For main cable of 26 mm	
		Square Bar 40	30r 40	151	0.30	1.21	2.42	0.02	0.04	2.44	For main cable ø 32 mm		
8	3	3	L= 147	2	8 0 32 13 17 5 8 0 36 15 205	151	0.30	1.17	2.34	0.02	0.04	2.36	For main cable of 36 mm
	1			TOTAL (1 - 8) EXCLUDING PA	ART								

## NOTES :

- I) All nuts have to be retightightened after erection.
- 2) All nongalvanized threads have to be painted in site with coaltar after
- 3) All steelparts have to be painted with final coat after bridge
- holing, bending and welding of assembly.

	Item			weight (kg)
	Structural steel, st		(kg)	
1	26 32 36 40	N x 3.91 N x 3.89 N x 3.81 N x 3.75	3	
	Part no. 1b Total			
2	Screws , bolts , no Standard parts : Total weight = N			

TOTAL TRANSPORTATION WEIGHT:... ... ... ... kg

Total weight of Suspender rods:	kg
Total weight (Finished) of Suspender rods Galvanized :	kg
Total paint surface of Suspender rods:	m <sup>2</sup>
Total number of Suspender N :	
(Suspender number 1:2 pieces , all other Suspender numbers : 4 pieces)	

-	Total Weight of Suspender Rods from Suspender List	kg
WEIG	Total Weight of Other Parts = X x N kg	kg
>	GRAND TOTAL	kg
CE	Total Surface of Suspender Rods to be Painted from Suspender List	m <sup>2</sup>
SURFA	Total Surface of Other Parts to be Painted = Y x N m <sup>2</sup>	m <sup>2</sup>
SUF	GRAND TOTAL	m <sup>2</sup>
9	Suspender Rods to be Galvanized	kg
Weight to be alvanize	Other Parts to be Galvanized = Z x N kg	kg
Sa t N	GRAND TOTAL	kg

Main	Cable	e Diameter	X (kg)	Y (m <sup>2</sup> )	(Finished) Galvanized (kg)	Weight Z (kg)
	26	mm	4.66	0.10	3.99	3.91
	32	mm	4.62	0.10	3.96	3.89
	36	mm	4.55	0.10	3.88	3.81
	40	mm	4.48	0.10	3.81	3.75

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

Bridge No: Name:

Working & Assembly Drawing:

Cable s
m.

Drawing No. 31 Suspenders for 2 Main Cables Main Cable &

Steelparts for one bridge Date: August 2004