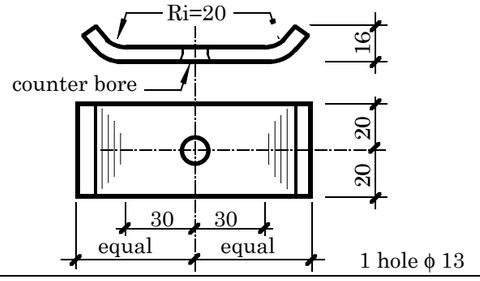
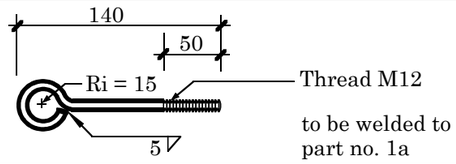
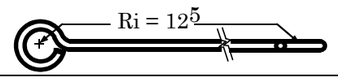
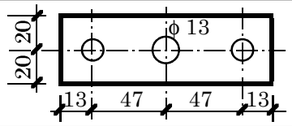
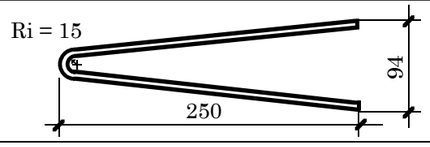
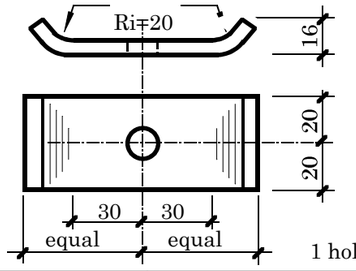
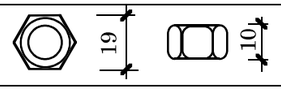
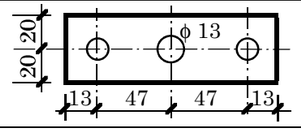
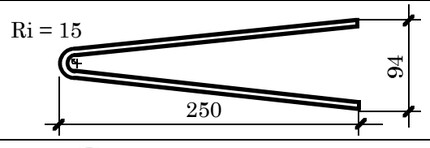
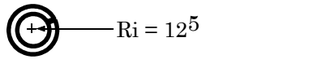
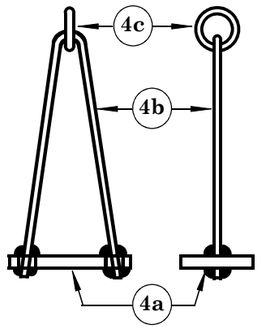
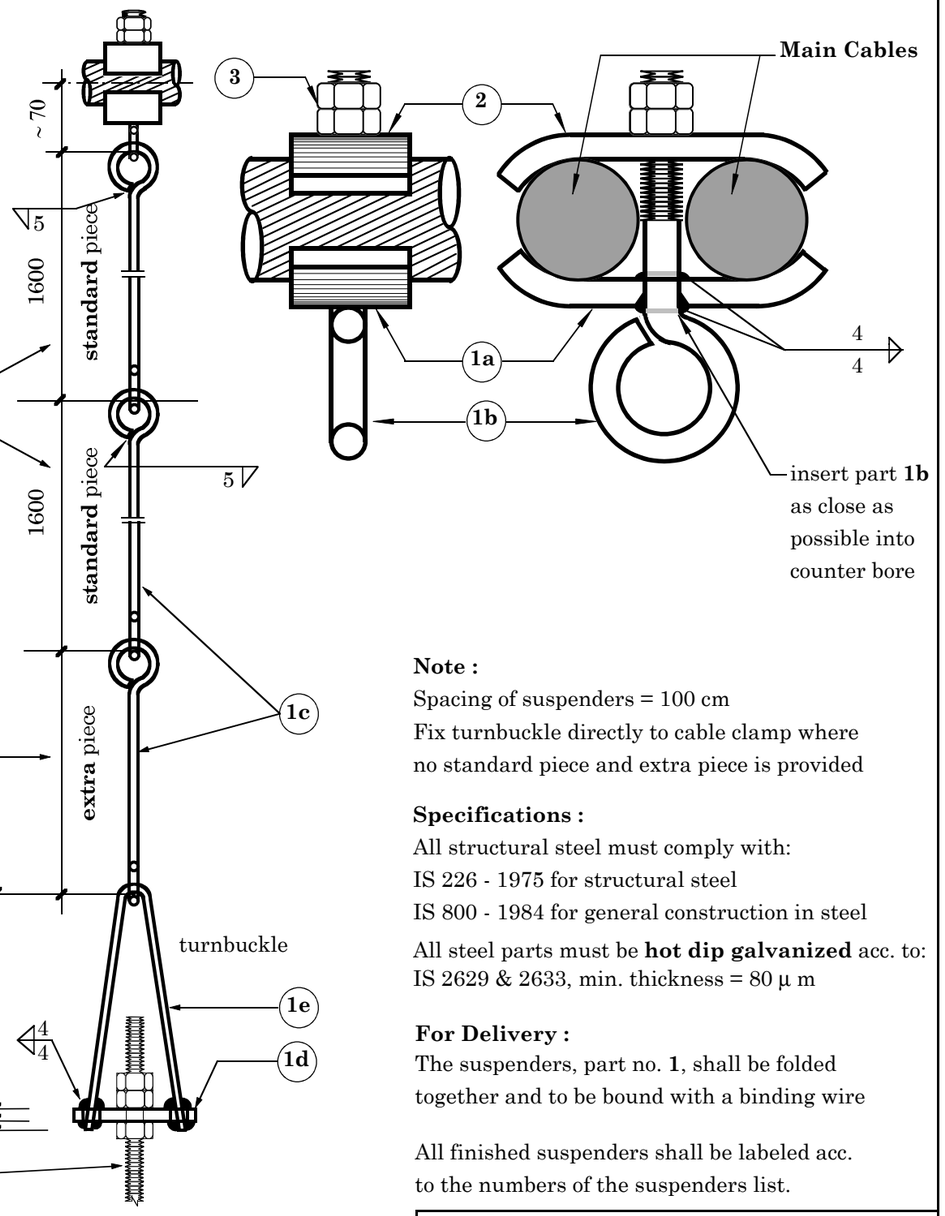
Part No.		Section [mm]	Quantity [nos]	Working Drawing	Weight kg / pc	Weight total kg
1	a	**Flat 40/10/100**	**1**	 1 hole ϕ 13	**0.31**	**0.31**
	b	**Rod *f* 12 l = 210**	**1**	 Thread M12 to be welded to part no. 1a	**0.19**	**0.19**
	c	**Rod** f **10 of different length**		see separate suspender list 	------	------
	d	**Flat 40/10 - 120**	**1**	 2 holes ϕ 11 1 hole ϕ 13	**0.35**	**0.35**
	e	**Rod** f **10 - 518**	**1**		**0.32**	**0.32**
2		**Flat 40/10/100**	**1**	 1 hole ϕ 13	**0.31**	**0.31**
3		**Hex nut M12**	**2.1**		**0.015**	**0.03**C
				Total (turnbuckle, cable clamp and nuts for **one** suspender only)		**1.51**
2 sets only for first crossbeam on both sides of the bridge, which has no suspenders						
4	a	**Flat 40/10 - 120**	**4**	 2 holes ϕ 11 1 hole ϕ 13	**0.35**	**1.40**
	b	**Rod** f **10 - 518**	**4**		**0.32**	**1.28**
	c	**Rod** f **10 - 110**	**4**		**0.07**	**0.28**

Part No. 4

for first crossbeam at the pylon foundation



Fabrication & Assembly Details



Fabricate each piece of **standard** length from rod ϕ 10, 1750 long

Fabricate this **extra** piece from rod ϕ 10 for cutting length see separate suspender list

Note :
Spacing of suspenders = 100 cm
Fix turnbuckle directly to cable clamp where no standard piece and extra piece is provided

Specifications :
All structural steel must comply with:
IS 226 - 1975 for structural steel
IS 800 - 1984 for general construction in steel
All steel parts must be **hot dip galvanized** acc. to:
IS 2629 & 2633, min. thickness = 80 µ m

For Delivery :
The suspenders, part no. **1**, shall be folded together and to be bound with a binding wire

All finished suspenders shall be labeled acc. to the numbers of the suspenders list.

Calculation of steel weights

		Structural Steel [kg]	galvanized weight [kg]
Total number of suspenders (from separate suspender list)	**N =**		
Total weight of suspender rods: (from separate suspender list)		.....	.....
Structural Steel:	raw weight = (**N** x 1.48) + 2.96	.....	
	galvanized weight = (**N** x 1.52) + 3.04		.....
Nuts & Bolts:	= N x 0.03		.....
GRAND TOTAL WEIGHT		.....	.....

HMG / Ministry of Local Development
DoLIDAR / Short SpanTrail Bridge Standard

Bridge Name:
No: Span:

Steel Drawing:

Suspenders
for Suspension Bridges
for 4 Main Cables f 26 **or 32 mm**

Date : September 30, 2002 **Drawing No.32N**