

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	to be total m ²	Total weight (finished) Galvanized kg	Remarks
T-1	a Angle 65/65/6 ℓ = 1540	4		1540	6.16	8.85	35.40	0.39	1.56	36.35	 * The corners at the ends of angles to be ground off (for a length of 140mm) as shown above.
	b Rod ø 16 mm ℓ = 3172	2		3047	6.09	4.81	9.62	0.15	0.30	9.80	Part no. T-1 (a,b) to be welded together as shown in welding detail.
T-2	Plate 520/360/6	4		-	-	7.78	31.12	0.34	1.36	31.95	
T-3	Plate 310/80/6	8		-	-	1.06	8.48	0.05	0.40	8.72	
T-4	Angle 75/75/6 ℓ = 240	2		240	0.48	1.63	3.26	0.06	0.12	3.33	
T-5	Friction grip bolt M 20 x 60 IS 3757-8.8	43		-	-	0.23	9.89	Apply oil only			3 pcs. extra Ref: IS 3757-1972

Steel parts to be Galvanized :	87.88 kg	Hot Dip Galvanization : IS 2629, IS 2633
Steel parts to be painted :	3.74 m ²	Weight of Zinc Coat : 0.61 kg / m ²

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 m2 / pc	total m2	Total weight (finished) Galvanized kg	Remarks
T-6	Friction grip nut M 20 IS 6623-8	43		-	-	0.079	3.40	Apply oil only			3 pcs. extra Ref: IS 6623 - 1972
T-7	Washer 'A' 21 IS 6649	43		-	-	0.021	0.90	Apply oil only			3 pcs. extra Ref: IS 6649 - 1972
T-8	Friction grip bolt M 16 x 50 IS 3757 - 8.8	18		-	-	0.12	2.16	Apply oil only			2 pcs. extra Ref: IS 3757 - 1972
T-9	Friction grip nut M 16 IS 6623-8	18		-	-	0.047	0.85	Apply oil only			2 pcs. extra Ref: IS 6623 - 1972
T-10	Washer 'A' 17 IS 6649	18		-	-	0.014	0.25	Apply oil only			2 pcs. extra Ref: IS 6649 - 1972
TOTAL (T-1 to T-10)				105.33 kg		3.74 m²		90.15 kg			

TRANSPORT UNIT

Weight of part T-1 = 23.07 kg

NOTES :

- To obtain uniformity, use of templates and jigs is mandatory for holing 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.
- "Friction grip bolt, nuts and washers" are mentioned in this drawing. However "Galvanized black grade hexagonal bolts and nuts (IS 1363, property class 4.6) and washers (IS 6610)" can be supplied.

Serial number	Item	Total weight (kg)
1	Structural steel	87.88
2	Screws, bolts, nuts, washers	17.45
Total 1 + 2		105.33

TOTAL TRANSPORTATION WEIGHT : 107.60 kg

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

Bridge No: _____ Name: _____

Span: _____

Working Drawing :

Tower Top Element

Standard section : 400 x 550 mm

Effective height : 170 mm

Angle : 65/65/6 mm

Units : 1 Unit = Steelparts for one Tower

Date: August 2004

Drawing No.122