

Chapter No. 33.38

SHEET METAL CUBICAL PEDESTAL, TOWER STRUCTURES, HT & LT MISCELLANEOUS ITEMS:

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
33.38	(i)	S/E of SMCpedestal made from 50mmx50mmx6mm thick MS angle iron frame with 5 sides welded & covered with MS sheet 2mm thick & front side hinged with 4" hinges & locking system with heavy duty 12" sliding door.Placed on MS strip of size 12.5mmx2.5mm thick welded with MS sheet with 4no. legs of 50mmx50mmx6mm thick MS angle iron each of 600mm long with MS sheet 100mmx100mmx6mm thick at the bottom end of the legs.Front door welded x-actionally with MS flat 25mmx5mm.The front side with MS sheet each 75mm wide & a bend of 75mm width outwards & inwards on all sides with tapered top 200mm high.And pedestial with 4 Nos supporting members each of MS flat 50mmx6mm thick acc. to cubical size duly welded & complete pedestal to be painted with 1 coat of red oxide & 2 coats of paint &bonding to the existing earth to be erected in the 1:2:4 CC, the platform of 150mm high from ground level & 450mm thick & 150mm from the top of the CCplatform as per Drawing attached.								
(a)		Cubical Size 900mm high, 600mm wide and 350mm deep								
		Unit :-	1	Each						
I		Materials								
(i)		MS angle iron 50mm x 50mm x 6mm thick (4.470 kg. per metre) 9.80 mtr. @ 4.470 kg. per mtr. = 43.806 kg.	Kg.	43.806	43.68	1913.45				
(ii)		MS sheet 2mm thick (15.700 kg. per sq. metre) 2.68sq. mtr. @ 15.700kg. per sq. mtr. = 42.009kg.	Kg.	42.009	41.00	1722.37				
(iii)		MS flat iron 12.5mm x 2.5mm thick (0.250 kg. per metre) 0.225mtr. @ 0.250kg. per mtr. = 0.060kg.	Kg.	0.060	33.00	1.98				
(iv)		MS flat iron 25mm x 5mm thick (1 kg. per metre) 1.75mtr. @ 1kg. per mtr.=1.749kg	Kg.	1.749	33.00	57.72				
(v)		MS flat iron 50mm x 6mm thick (2.400 kg. per metre) 2.40mtr. @ 2.400kg. per mtr. = 5.760kg.	Kg.	5.760	33.00	190.08				
(vi)		Paint	Litre	0.400	180.00	72.00				
(vii)		Red oxide	Litre	0.200	140.00	28.00				
(viii)		Locking arrangements for pillar box	Each	1.00	80.00	80.00				
(ix)		Cement concrete 1:2:4 (600mm x 350mm x 300mm)=0.06 Cum	Cum	0.06	4556.00	287.03				
(x)		Fabrication, cutting, welding etc. charges except MS sheet 43.806+0.060+1.749+5.760 = 51.375 kg.	Kg.	51.375	8.00	411.00				
(xi)		Fabrication, cutting, welding etc. charges for MS sheet only	Kg.	42.009	15.00	630.14				
		Total - I				5393.77				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.5393.77				53.94				

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Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(b)		Cubical Size 1200mm high, 900mm wide and 350mm deep										
			Unit :-	1	Each							
I		Materials										
(i)		MS angle iron 50mm x 50mm x 6mm thick (4.470 kg. per metre) 12.20 mtr. @ 4.470 kg. per mtr. = 54.534 kg.			Kg.	54.534	43.68	2382.05				
(ii)		MS sheet 2mm thick (15.700 kg. per sq. metre) 4.46sq. mtr. @ 15.700kg. per sq. mtr. = 69.987kg.			Kg.	69.987	41.00	2869.47				
(iii)		MS flat iron 12.5mm x 2.5mm thick (0.250 kg. per metre) 0.225mtr. @ 0.250kg. per mtr. = 0.060kg.			Kg.	0.060	33.00	1.98				
(iv)		MS flat iron 25mm x 5mm thick (1 kg. per metre) 2.58mtr. @ 1kg. per mtr.=2.581kg			Kg.	2.581	33.00	85.17				
(v)		MS flat iron 50mm x 6mm thick (2.400 kg. per metre) 3.60mtr. @ 2.400kg. per mtr. = 8.640kg.			Kg.	8.640	33.00	285.12				
(vi)		Paint (Two coats inner and outer side)			Litre	0.800	180.00	144.00				
(vii)		Red oxide (One coat inner and outer side)			Litre	0.400	140.00	56.00				
(viii)		Locking arrangements for pillar box			Each	1.00	80.00	80.00				
(ix)		Cement concrete 1:2:4 (900mm x 350mm x 300mm)= 0.09Cum			Cum	0.09	4556.00	410.04				
(x)		Fabrication, cutting, welding etc. charges except MS sheet 54.534+0.060+2.581+8.640 = 65.815 kg.			Kg.	65.815	8.00	526.52				
(xi)		Fabrication, cutting, welding etc. charges for MS sheet only			Kg.	69.987	15.00	1049.81				
		Total - I						7890.16				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.7890.16						78.90				
		Add contractor's profit @ 10% i.e. on Rs. 7969.06						796.91				
		Add labour cess @ 1% i.e. on Rs. 8765.97						87.66				
								8853.63	8853.63			8853.63
II		Labour										
		Taking output			1	Each						
(i)		Brick layer (2nd Class)			Day	3/4	190.00	142.50				
(ii)		Mazdoor (Skilled)			Day	3/4	164.69	123.52				
(iii)		Fitter (2nd Class)			Day	1/2	190.00	95.00				
(iv)		Painter (2nd Class)			Day	3/4	190.00	142.50				
		Total - II						503.52				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.503.52						5.04				
		Add contractor's profit @ 21.5% i.e. on Rs. 508.56						109.34				
		Add labour cess @ 1% i.e. on Rs. 617.9						6.18				
		Labour for			1	Each		624.08				
		Labour for			1	Each		624.08	624.08	624.08		
		Cost for			1	Each			9477.71			
		Add 10% for sub mountainous region										62.41
		Labour for			1	Each						686.49
		Cost for			1	Each						9540.12

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
(c)		Cubical Size 1200mm high, 1000mm wide and 500mm deep								
		Unit :- 1 Each								
I		Materials								
(i)		MS angle iron 50mm x 50mm x 6mm thick (4.470 kg. per metre) 13.20 mtr. @ 4.470 kg. per mtr. = 59.004 kg.	Kg.	59.004	43.68	2577.29				
(ii)		MS sheet 2mm thick (15.700 kg. per sq. metre) 5.55sq. mtr. @ 15.700kg. per sq. mtr. = 87.084kg.	Kg.	87.084	41.00	3570.44				
(iii)		MS flat iron 12.5mm x 2.5mm thick (0.250 kg. per metre) 0.225mtr. @ 0.250kg. per mtr. = 0.060kg.	Kg.	0.060	33.00	1.98				
(iv)		MS flat iron 25mm x 5mm thick (1 kg. per metre) 2.70mtr. @ 1kg. per mtr.=2.702kg	Kg.	2.702	33.00	89.17				
(v)		MS flat iron 50mm x 6mm thick (2.400 kg. per metre) 4mtr. @ 2.400kg. per mtr. = 9.600kg.	Kg.	9.600	33.00	316.80				
(vi)		Paint	Litre	1.250	180.00	225.00				
(vii)		Red oxide	Litre	0.625	140.00	87.50				
(viii)		Locking arrangements for pillar box	Each	1.00	80.00	80.00				
(ix)		Cement concrete 1:2:4 (1000mm x 500mm x 300mm)=0.15Cum	Cum	0.15	4556.00	683.40				
(x)		Fabrication, cutting, welding etc. charges except MS sheet 59.004+0.060+2.702+9.600 = 71.366 kg.	Kg.	71.366	8.00	570.93				
(xi)		Fabrication, cutting, welding etc. charges for MS sheet only	Kg.	87.084	15.00	1306.26				
		Total - I				9508.77				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.9508.77				95.09				
		Add contractor's profit @ 10% i.e. on Rs. 9603.86				960.39				
		Add labour cess @ 1% i.e. on Rs. 10564.25				105.64				
						10669.89	10669.89			10669.89
II		Labour								
		Taking output	1	Each						
(i)		Brick layer (2nd Class)	Day	3/4	190.00	142.50				
(ii)		Mazdoor (Skilled)	Day	3/4	164.69	123.52				
(iii)		Fitter (2nd Class)	Day	1/2	190.00	95.00				
(iv)		Painter (2nd Class)	Day	1/2	190.00	95.00				
		Total - II				456.02				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.456.02				4.56				
		Add contractor's profit @ 21.5% i.e. on Rs. 460.58				99.02				
		Add labour cess @ 1% i.e. on Rs. 559.6				5.60				
		Labour for	1	Each		565.20				
		Labour for	1	Each		565.20	565.20	565.20		
		Cost for	1	Each			11235.09			
		Add 10% for sub mountainous region								56.52
		Labour for	1	Each						621.72

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Cost for	1	Each								11291.61

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(d)		Cubical Size 1400mm high, 1200mm wide and 500mm deep										
		Unit :- 1 Each										
I		Materials										
(i)		MS angle iron 50mm x 50mm x 6mm thick (4.470 kg. per metre) 14.80 mtr. @ 4.470 kg. per mtr. = 66.156 kg.			Kg.	66.156	43.68	2889.69				
(ii)		MS sheet 2mm thick (15.700 kg. per sq. metre) 7.13sq. mtr. @ 15.700kg. per sq. mtr. = 111.953kg.			Kg.	111.953	41.00	4590.07				
(iii)		MS flat iron 12.5mm x 2.5mm thick (0.250 kg. per metre) 0.450mtr. @ 0.250kg. per mtr. = 0.110kg.			Kg.	0.110	33.00	3.63				
(iv)		MS flat iron 25mm x 5mm thick (1 kg. per metre) 3.26mtr. @ 1kg. per mtr.=3.265kg			Kg.	3.265	33.00	107.75				
(v)		MS flat iron 50mm x 6mm thick (2.400 kg. per metre) 4.80mtr. @ 2.400kg. per mtr. = 11.520kg.			Kg.	11.520	33.00	380.16				
(vi)		Paint			Litre	1.450	180.00	261.00				
(vii)		Red oxide			Litre	0.725	140.00	101.50				
(viii)		Locking arrangements for pillar box			Each	1.00	80.00	80.00				
(ix)		Cement concrete 1:2:4 (1200mm x 500mm x 300mm)=0.18Cum			Cum	0.18	4556.00	820.08				
(x)		Fabrication, cutting, welding etc. charges except MS sheet 66.156+0.110+3.265+11.520 = 81.051 kg.			Kg.	81.051	8.00	648.41				
(xi)		Fabrication, cutting, welding etc. charges for MS sheet only			Kg.	111.953	15.00	1679.30				
		Total - I						11561.59				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.11561.59						115.62				
		Add contractor's profit @ 10% i.e. on Rs. 11677.21						1167.72				
		Add labour cess @ 1% i.e. on Rs. 12844.93						128.45				
								12973.38	12973.38			12973.38
II		Labour										
		Taking output 1 Each										
(i)		Brick layer (2nd Class)			Day	3/4	190.00	142.50				
(ii)		Mazdoor (Skilled)			Day	3/4	164.69	123.52				
(iii)		Fitter (2nd Class)			Day	1/2	190.00	95.00				
(iv)		Painter (2nd Class)			Day	1/2	190.00	95.00				
		Total - II						456.02				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.456.02						4.56				
		Add contractor's profit @ 21.5% i.e. on Rs. 460.58						99.02				
		Add labour cess @ 1% i.e. on Rs. 559.6						5.60				
		Labour for 1 Each						565.20				
		Labour for 1 Each						565.20	565.20	565.20		
		Cost for 1 Each							13538.58			
		Add 10% for sub mountainous region										56.52
		Labour for 1 Each										621.72
		Cost for 1 Each										13595.10

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					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
33.38 (ii)		S/E of SMCpedestal made from 50mmx50mmx6mm thick MS angle iron with 5 sides welded & covered with MS sheet 2mm thick & front side hinged with 4" hinges & locking system with heavy duty 12" sliding door,placed on MS strip of size 12.5mmx2.5mm thick welded with MS sheet with 4no. legs of 50mmx50mmx6mm thick MS angle iron each of 600mm long with MS sheet 100mmx100mmx6mm thick at the bottom end of the legs.Front door welded x-actionally with MS flat 25mmx5mm.The front side with MS sheet each 75mm wide & a bend of 75mm width outwards & inwards on all sides. With tapered top 300mm high.And pedestal with 4 nos. supporting members each of 50mm x 50mm x 6mm thick MS angle iron (according to cubical size) duly welded & complete pedestal to be painted with (one coat of red oxide & two coats of paint) & bonding to the existing earth.And to be erected in the 1:2:4 CCplatform of 150mm high from ground level &450mm thick & 150mm from the top of the CCplatform as per Drawing attached.								
(a)		Cubical Size 1200mm high, 1500mm wide and 350mm deep								
		Unit :-	1	Each						
I		Materials								
(i)		MS angle iron 50mm x 50mm x 6mm thick (4.470 kg. per metre) 20.60 mtr. @ 4.470 kg. per mtr. = 92.082 kg.	Kg.	92.082	43.68	4022.14				
(ii)		MS sheet 2mm thick (15.700 kg. per sq. metre) 6.64sq. mtr. @ 15.700kg. per sq. mtr. = 104.181kg.	Kg.	104.181	41.00	4271.42				
(iii)		MS flat iron 12.5mm x 2.5mm thick (0.250 kg. per metre) 0.450mtr. @ 0.250kg. per mtr. = 0.110kg.	Kg.	0.110	33.00	3.63				
(iv)		MS flat iron 25mm x 5mm thick (1 kg. per metre) 3.42mtr. @ 1kg. per mtr.=3.421kg	Kg.	3.421	33.00	112.89				
(v)		Paint	Litre	1.330	180.00	239.40				
(vi)		Red oxide	Litre	0.615	140.00	86.10				
(vii)		Locking arrangements for pillar box	Each	1.00	80.00	80.00				
(viii)		Cement concrete 1:2:4 (1500mm x 350mm x 300mm)=0.16Cum	Cum	0.16	4556.00	728.96				
(ix)		Fabrication, cutting, welding etc. charges except MS sheet 92.082+0.110+3.421= 95.613kg.	Kg.	95.613	8.00	764.90				
(x)		Fabrication, cutting, welding etc. charges for MS sheet only	Kg.	104.181	15.00	1562.72				
		Total - I				11872.16				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.11872.16				118.72				
		Add contractor's profit @ 10% i.e. on Rs. 11990.88				1199.09				
		Add labour cess @ 1% i.e. on Rs. 13189.97				131.90				
						13321.87	13321.87			13321.87
II		Labour								
		Taking output	1	Each						
(i)		Brick layer (2nd Class)	Day	3/4	190.00	142.50				

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Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(b)		Cubical Size 1200mm high, 1800mm wide and 350mm deep										
			Unit :-	1	Each							
I		Materials										
(i)		MS angle iron 50mm x 50mm x 6mm thick (4.470 kg. per metre) 23.00 mtr. @ 4.470 kg. per mtr. = 102.810 kg.			Kg.	102.810	43.68	4490.74				
(ii)		MS sheet 2mm thick (15.700 kg. per sq. metre) 7.72sq. mtr. @ 15.700kg. per sq. mtr. = 121.279kg.			Kg.	121.279	41.00	4972.44				
(iii)		MS flat iron 12.5mm x 2.5mm thick (0.250 kg. per metre) 0.450mtr. @ 0.250kg. per mtr. = 0.110kg.			Kg.	0.110	33.00	3.63				
(iv)		MS flat iron 25mm x 5mm thick (1 kg. per metre) 3.91mtr. @ 1kg. per mtr.=3.912kg			Kg.	3.912	33.00	129.10				
(vi)		Paint			Litre	1.600	180.00	288.00				
(vii)		Red oxide			Litre	0.800	140.00	112.00				
(viii)		Locking arrangements for pillar box			Each	1.00	80.00	80.00				
(ix)		Cement concrete 1:2:4 (1800mm x 350mm x 300mm)=0.19Cum			Cum	0.19	4556.00	865.64				
(x)		Fabrication, cutting, welding etc. charges except MS sheet 74.460+0.110+3.200+25.900 = 103.670 kg.			Kg.	103.670	8.00	829.36				
(xi)		Fabrication, cutting, welding etc. charges for MS sheet only			Kg.	121.279	15.00	1819.19				
		Total - I						13590.10				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.13590.1						135.90				
		Add contractor's profit @ 10% i.e. on Rs. 13726						1372.60				
		Add labour cess @ 1% i.e. on Rs. 15098.6						150.99				
								15249.59	15249.59			15249.59
II		Labour										
			Taking output	1	Each							
(i)		Brick layer (2nd Class)			Day	3/4	190.00	142.50				
(ii)		Mazdoor (Skilled)			Day	3/4	164.69	123.52				
(iii)		Fitter (2nd Class)			Day	1/2	190.00	95.00				
(iv)		Painter (2nd Class)			Day	1/2	190.00	95.00				
		Total - II						456.02				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.456.02						4.56				
		Add contractor's profit @ 21.5% i.e. on Rs. 460.58						99.02				
		Add labour cess @ 1% i.e. on Rs. 559.6						5.60				
			Labour for	1	Each			565.20				
			Labour for	1	Each			565.20	565.20	565.20		
			Cost for	1	Each				15814.79			
		Add 10% for sub mountainous region										56.52
			Labour for	1	Each							621.72
			Cost for	1	Each							15871.31

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					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
33.38 (iii)		S/E of M.S. Junction box 205mm x 155mm x 95mm made from M.S. Sheet 16 SWG (1.60 mm thick) with top side of dimensions 155mm x 95mm , bottom side 155mm x 95mm , right side 205mm x 95 mm , left side 205mm x 95mm, back side 205mm x 155mm (all sides fixed) and front side hinged with dimensions 205mm x 155mm. Junction box should have one locking arrangement and 2 nos. hinges on front side. It should have 1 No. Brass terminal connecting strip, 1 No. Kit kat 16 Amp/240 Volts along with M.S. Flat 20mm x 2mm clamp with nuts and bolts for fixing on the pole. The junction box should be painted with one coat of good quality primer and two coats of post office red enamel paint inside and outside complete in all respect.								
		Unit :-	1	Each						
I		Materials								
(i)		MS sheet 1.6mm thick (12.55 kg. per sq. metre) 0.155 x 0.095 x 2 + 0.205 x 0.095 x 2 + 0.205 x 0.155 x 2 =0.13 sq. mtr @ 12.55 kg. per sq. mtr =1.63 kg.	Kg.	1.630	41.00	66.83				
(ii)		MS flat iron 20mm x 2mm thick (0.300 kg. per metre) 0.300 mtr @ 0.300 kg. per mtr. = 0.09 kg.	Kg.	0.090	33.00	2.97				
(iii)		Locking arrangements for junction box	Each	1.00	10.00	10.00				
(iv)		Bakelite terminal strip with 4 nos. brass nut bolts 40amp./ 440 volt AC	Each	1.00	63.30	63.30				
(v)		Kit kat 16amp./ 240 volts	Each	1.00	39.81	39.81				
(vi)		Front door hinges for junction box only	Each	2.00	10.00	20.00				
(vii)		Paint	Litre	0.200	180.00	36.00				
(viii)		Red oxide	Litre	0.100	140.00	14.00				
(ix)		Fabrication, cutting, welding etc. charges for MS sheet only (1.63 kg.)	Kg.	1.630	15.00	24.45				
		Total - I				277.36				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.277.36				2.77				
		Add contractor's profit @ 10% i.e. on Rs. 280.13				28.01				
		Add labour cess @ 1% i.e. on Rs. 308.14				3.08				
						311.22	311.22			311.22
II		Labour								
		Taking output	1	Each						
(i)		Wireman (1st Class)	Day	1/6	164.69	27.50				
(ii)		Painter (2nd Class)	Day	1/10	190.00	19.00				
		Total - II				46.50				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.46.5				0.47				
		Add contractor's profit @ 21.5% i.e. on Rs. 46.97				10.10				
		Add labour cess @ 1% i.e. on Rs. 57.07				0.57				
		Labour for	1	Each		57.64				
		Labour for	1	Each		57.64	57.64	57.64		
		Cost for	1	Each			368.86			

[illegible]

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
(iv)		S/E of M.S. Junction box 300 mm x 200 mm x 100 mm made from M.S. Sheet 16 SWG (1.60 mm thick) with top side of dimensions 200 mm x 100 mm , bottom side 200 mm x 100 mm , right side 300 mm x 100 mm , left side 300 mm x 100 mm, back side 300 mm x 200 mm (all sides fixed) and front side hinged with dimensions 300 mm x 200 mm.Junction box should have one locking arrangement and 2 nos. hinges on front side. It should have 1 No. Brass terminal connecting strip, 1 No. Kit kat 16 Amp/240 Volts along with M.S. Flat 20 mm x 2 mm clamp with nuts and bolts for fixing on the pole. The junction box should be painted with one coat of good quality primer and two coats of post office red enamel paint inside and outside complete in all respect.								
		Unit :-	1	Each						
I		Materials								
(i)		MS sheet 1.6mm thick (12.55 kg. per sq. metre) 0.200 x 0.100 x 2 + 0.300 x 0.100 x 2 + 0.300 x 0.200 x 2 =0.22 sq. mtr @ 12.55 kg. per sq. mtr =2.76 kg.		Kg.	2.760	41.00	113.16			
(ii)		MS flat iron 20mm x 2mm thick (0.300 kg. per metre) 0.300 mtr @ 0.300 kg. per mtr. = 0.09 kg.		Kg.	0.090	33.00	2.97			
(iii)		Locking arrangements for junction box		Each	1.00	10.00	10.00			
(iv)		Bakelite terminal strip with 4 nos. brass nut bolts 40amp./ 440 volt AC		Each	1.00	63.30	63.30			
(v)		Kit kat 16amp./ 240 volts		Each	1.00	39.81	39.81			
(vi)		Front door hinges for junction box only		Each	2.00	10.00	20.00			
(vii)		Paint		Litre	0.200	180.00	36.00			
(viii)		Red oxide		Litre	0.100	140.00	14.00			
(ix)		Fabrication, cutting, welding etc. charges for MS sheet only (2.76 kg.)		Kg.	2.760	15.00	41.40			
		Total - I					340.64			
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.340.64					3.41			
		Add contractor's profit @ 10% i.e. on Rs. 344.05					34.41			
		Add labour cess @ 1% i.e. on Rs. 378.46					3.78			
							382.24			382.24
II		Labour								
		Taking output	1	Each						
(i)		Wireman (1st Class)		Day	1/6	164.69	27.50			
(ii)		Painter (2nd Class)		Day	1/10	190.00	19.00			
		Total - II					46.50			
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.46.5					0.47			
		Add contractor's profit @ 21.5% i.e. on Rs. 46.97					10.10			
		Add labour cess @ 1% i.e. on Rs. 57.07					0.57			

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Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
MS TOWER STRUCTURE										
(v)		S/E of M.S. Angle Iron structure upto 8.4 meter high 1500 mm base & 750 mm at the top. & 6nos horizontal support of M.S. Angle iron 50mmx50mmx5mm from G/L of length 1.46 m x4, 1.33mx4, 1.24 mx4, 1.11 mx4, 0.98mx4 & 0.84mx4 from bottom to top resp., 6 nos.inclined angle support of M.S.Angle iron 50mmx50mmx5mm from G/Lof length 1.87mx8, 1.79mx8, 1.70mx8,1.64mx8, 1.54mx8 & 1.31 mtr x 8 from bottom to top resp.,2 nos. horizontal support for Ladder of M.S.Angle iron 30mmx30mmx5mm of lengths 1.10 m & 1.35m to be welded with M.S.Angle iron 65mmx65mmx6mm.,4 nos. vertical angle support for the raising of tower of M.S. Angle Iron 65mmx65mmx6mm for the fixing of the above horizontal and vertical supports of length 8.4m each and for the fixing of octagonal platform on it.The vertical angle supports to be welded with M.S. base plates of thickness 20mm &10mm each of size 200mmx200mm 4nos.each under the base plate,spacer of M.S. Flat 40mmx5mm(24 nos.) for inclined angles to be erected with nuts & bolts 16 mm dia (176 Nos.)								
		Unit :-	1	Each						
I		Materials								
(i)		MS angle iron 50mm x 50mm x 5mm thick (3.800 kg. per metre) 106.72 mtr. = 405.54 kg.			Kg.	405.540	34.32	13918.13		
(ii)		MS angle iron 65mm x 65mm x 6mm thick (5.800 kg. per metre) 33.60mtr. = 194.88 kg.			Kg.	194.880	43.88	8551.33		
(iii)		MS angle iron 30mm x 30mm x 5mm thick (2.200 kg. per metre) 2.45 mtr. = 5.39 kg.			Kg.	5.390	34.32	184.98		
(iv)		MS plate 20mm thick @ 157 kg. per sq. metre (4 x 0.200 x 0.200 = 0.160 sq. mtr.) = 25.12 kg.			Kg.	25.12	40.00	1004.80		
(v)		MS plate 10mm thick @ 78.50 kg. per sq. metre (4 x 0.200 x 0.200 = 0.160 sq. mtr.) = 12.56 kg.			Kg.	12.56	40.00	502.40		
(vi)		MS Flat 40mm X 5mm @ 1.300 kg. per metre (4 x 6 x 0.050 = 1.20 sq. mtr.) = 1.56 kg.			Kg.	1.56	43.68	68.14		
(vii)		MS nut and bolts 16mm dia @ 0.130 kg. per piece (176 Nos.) = 22.88 kg.			Kg.	22.88	97.30	2226.22		
(viii)		Paint (Two Coats)			Litre	5.000	180.00	900.00		
(ix)		Red oxide (One Coat)			Litre	2.500	140.00	350.00		
(x)		Fabrication, cutting, welding etc. charges (405.54 + 194.88 + 5.39 + 25.12 + 12.56 + 1.56 =645.05 kg.)			Kg.	645.050	15.00	9675.75		
		Total - I					37381.75			
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.37381.75					373.82			
		Add contractor's profit @ 10% i.e. on Rs. 37755.57					3775.56			

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Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
MS TOWER LADDER										
(vi)		S/E of M.S. Tower Ladder suitable for tower structure of height 8.4 mtr made from M.S. Angle iron 30 mm x 30 mm x 5 mm of length 6.94 mtr with 24 nos. steps made from M.S. Rods 16 mm for climbing on the tower/ octagonal platform. Each rod should be 300 mm long and welded with vertical M.S. angle iron of tower ladder.								
		Unit :-	1	Each						
I		Materials								
(i)		MS angle iron 30mm x 30mm x 5mm thick (2.200 kg. per metre) 6.94 x 2 = 13.88 mtr. = 30.54 kg.		Kg.	30.540	34.32	1048.13			
(ii)		MS rod 16mm dia. @ 1.580 kg. per mtr. 24 nos. x 0.300 mtr. = 7.20 mtr. = 11.38 kg.		Kg.	11.38	34.00	386.92			
(iii)		Paint (Two Coats)		Litre	3.000	180.00	540.00			
(iv)		Red oxide (One Coat)		Litre	1.500	140.00	210.00			
(v)		Fabrication, cutting, welding etc. charges (30.54 + 11.38 = 41.92 kg.)		Kg.	41.920	15.00	628.80			
		Total - I					2813.85			
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.2813.85					28.14			
		Add contractor's profit @ 10% i.e. on Rs. 2841.99					284.20			
		Add labour cess @ 1% i.e. on Rs. 3126.19					31.26			
							3157.45			3157.45
II		Labour								
		Taking output	1	Each						
(i)		Mazdoor (Skilled)		Day	2.00	164.69	329.38			
(ii)		Fitter (2nd Class)		Day	1.00	190.00	190.00			
(iii)		Painter (2nd Class)		Day	1/2	190.00	95.00			
		Total - II					614.38			
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.614.38					6.14			
		Add contractor's profit @ 21.5% i.e. on Rs. 620.52					133.41			
		Add labour cess @ 1% i.e. on Rs. 753.93					7.54			
		Labour for	1	Each			761.47			
		Labour for	1	Each			761.47		761.47	
		Cost for	1	Each			3918.92			
		Add 10% for sub mountainous region								76.15
		Labour for	1	Each						837.62
		Cost for	1	Each						3995.07

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
MS OCTAGONAL TOP OF TOWER										
(vii)		S/E of M.S. Octagonal top of the tower structure of height 8.4 meter & base consists of 8 sides of M.S.Angle Iron 40mmx40mm x5 mm. Out of 8 sides, 4 sides of length 760 mm and 4 sides of length 700mm.The octagonal top of 8 Nos. vertical supports each of length 840 mm for mounting railing on it. The top end of the railing of 8 sides for fixing the fittings on it. Out of 8 sides, 4 sides of length 830 mm & 4 sides of length 650 mm. The platform of the octagonal top of mesh made from M.S. Square bars 8 mm dia of weight 41 Kg. The platform of opening (double door) with frame of M.S. Angle iron 40 mm x 40 mm x 5 mm with locking arrangement. The octagonal top of railing made from M.S. Flat 40mmx5mm having 8 sides between the top & bottom (in middle). Out of 8 sides, 4 sides of length 830 mm and 4 sides of length 650 mm. The whole platform of base made from M.S. Channel 75mmx40mmx4mm fixed x-sectionally having lengths 1750 mm x 2 , 460 mm x 2 and 760 mm x 4 for fixing the opening system platform mesh etc on it.								
		Unit :-	1	Each						
I		Materials								
(i)		MS channel 75mm x 40mm x 4mm thick @ 5.700 kg. per metre (6.86 metre) = 39.10 kg.		Kg.	39.100	43.68	1707.89			
(ii)		MS angle iron 40mm x 40mm x 5mm thick (3 kg. per metre) (22.76 metre) = 68.28 kg.		Kg.	68.28	34.31	2342.69			
(ii)		MS mesh of sq. bars 8mm size (for platform) 41 kg.		Kg.	41.00	34.00	1394.00			
(ii)		MS nut and bolts 16mm dia @ 0.130 kg. per piece (26 nos. = 3.38 kg.)		Kg.	3.38	97.30	328.87			
(iii)		Paint (Two Coats)		Litre	3.000	180.00	540.00			
(iv)		Red oxide (One Coat)		Litre	1.500	140.00	210.00			
(v)		Fabrication, cutting, welding etc. charges (39.10 + 68.28 + 41.00 + 7.70 = 156.08 kg.)		Kg.	156.080	15.00	2341.20			
		Total - I					8864.65			
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.8864.65					88.65			
		Add contractor's profit @ 10% i.e. on Rs. 8953.3					895.33			
		Add labour cess @ 1% i.e. on Rs. 9848.63					98.49			
							9947.12			9947.12
II		Labour								
		Taking output	1	Each						
(i)		Mazdoor (Skilled)		Day	2	164.69	329.38			
(ii)		Fitter (2nd Class)		Day	1	190.00	190.00			
(iii)		Painter (2nd Class)		Day	1/2	190.00	95.00			
		Total - II					614.38			

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Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
FOUNDATION FOR TOWER HEIGHT 8.4 MTR. AND BASE 1500 MM X 1500 MM										
(viii)		Making of foundation 2050 mm deep suitable for tower of height 8.4 mtr and base 1500 mm x 1500 mm with 100 mm (4") cement concrete 1:5:10 with brick blast 40 mm guage. Foundation should have R.C.C. hand mixed 1:1½:3 with centering and shuttering complete in all respect. Foundation should have cold twisted deformed bars for slab reinforcement (10 mm dia), columns (12 mm dia) and rings (8 mm dia).For slab reinforcement, there should be 8 Nos. steel bars each of length 1000 mm for each column for bottom and top seperately. For R.C.C. Column, there should be 6 Nos. vertical steel bars each of length 2100 mm and 8 Nos. rings of dia 300 mm each for each column. At the top of each column there should be 10 mm thick M.S. Base plate size 200 mm x 200 mm. Foundation should have the provision of M.S. Nuts and bolts of size 20 mm dia 700 mm long 4 nos. for each column for fixing the tower on it.. Foundation should be 150 mm above ground level.								
		Unit :-	1	Each						
I	Materials									
(i)	Earth work excavation in foundation, trenches etc. in all kinds of soils not exceeding 2 metre deep including compaction and disposal of surplus soil as per CSR 6.6 (4 x 1.00 x 1.00 x 2.05 = 8.20 Cum			Cum	8.200	66.28	543.50			
(ii)	Cement concrete 1:5:10 with brick blast 40mm guage as per CSR 10.8 a (4x 1.00 x 1.00 x 0.100 = 0.40 Cum			Cum	0.400	1847.29	738.92			
(iii)	Reinforcement cement concrete hand mix 1:2:4 in foundation excluding steel reinforcement complete in all respect as per CSR 10.14 (4 x 1.00 x 1.00 x 0.300 = 1.20 Cum			Cum	1.200	3041.40	3649.68			
(iv)	Reinforcement cement concrete hand mix 1:2:4 in foundation excluding steel reinforcement cost of centering and shuttering complete in all respect as per CSR 10.15 (4 x 3.14 x 0.300 x 0.300 x 0.250 x 1.65 = 0.50 Cum			Cum	0.500	3372.85	1686.43			
(v)	Extra if 1:1 1/2:3 used instead of 1:2:4 as per CSR 10.26			Cum	1.700	262.27	445.86			
(vi)	Centering and shuttering in foundation @ 1.50 sq. metre per Cum as per CSR 9.1 (Base =4 x 4 x 1 x 0.300 = 4.80 Sq. metre			Sq. m	4.800	117.27	562.90			
(vii)	Centering and shuttering in foundation @ 1.50 sq. metre per Cum as per CSR 9.4 (Coloumn = 4 x 1.80 x 3.14 (0.15 x 0.15) = 0.51 Sq. metre			Sq. m	0.510	179.27	91.43			
(viii)	Providing and fixing of nut bolts size 20mm dia 700mm long as per CSR 18.15 (4 x 4 = 16 nos. x 1.73 kg. per nut and bolt =27.68 kg.			Kg.	27.680	60.00	1660.80			

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
HT & LT LINE MISCELLANEOUS ITEMS:										
(ix)		Supply & erection of 11 KV GO switch confirming to ISI specifications. The item includes supply and erection of operating pipe and handle arrangement of MS flat 50mm x 6mm and channels 75mm x 40mm sheet. The GO switch is to be fitted with locking arrangement so as it locks upward on 'ON' position and locks downward in 'OFF' position. The entire GO switch assembly/unit should be properly earthed and the job is to be completed as approved by Engineer-in-charge.								
		Unit :-	1	Each						
I		Materials								
	(i)	11 KV GO switch		Each	1.00	5460.00	5460.00			
	(ii)	Galvanized iron pipe 32mm dia. (B Class)		Kg.	4.00	195.00	780.00			
	(iii)	MS channel 75mm x 40mm		Kg.	5.70	43.68	248.98			
	(iv)	MS flat iron 50mm x 6mm thick (2.400 kg. per metre)		Kg.	2.00	33.00	66.00			
		Total - I					6554.98			
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.6554.98					65.55			
		Add contractor's profit @ 10% i.e. on Rs. 6620.53					662.05			
		Add labour cess @ 1% i.e. on Rs. 7282.58					72.83			
							7355.41			7355.41
II		Labour								
		Taking output	1	Each						
	(i)	Wireman (1st Class)		Day	2/5	164.69	65.88			
	(ii)	Mazdoor (Skilled)		Day	2/5	164.69	65.88			
		Total - II					131.76			
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.131.76					1.32			
		Add contractor's profit @ 21.5% i.e. on Rs. 133.08					28.61			
		Add labour cess @ 1% i.e. on Rs. 161.69					1.62			
		Labour for	1	Each			163.31			
		Labour for	1	Each			163.31		163.31	
		Cost for	1	Each						
							7518.72			
		Add 10% for sub mountainous region								16.33
		Labour for	1	Each						179.64
		Cost for	1	Each						7535.05

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Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
(xv)		S/E of M.S. Channel bracket made from 100 mm x 50 mm of length 600 mm and height 600 mm with M.S. Angle Iron 40 mm x 40 mm x 5 mm for installing metal hallide flood light fitting on it. Bracket should be fixed /welded with the existing pipe of cover shed. The bracket should be painted with one coat of primer and two coats of approved paint.								
		Unit :-	1	Each						
I		Materials								
(i)		MS channel 100mm x 50mm x 6mm thick @ 7.900 kg. per metre= 1.20 mtr. @ 7.900 kg. per mtr. = 9.480 kg.	Kg.	9.480	43.68	414.09				
(ii)		MS angle iron 40mm x 40mm x 5mm thick (3 kg. per metre) =0.30 mtr. = 0.900 kg.	Kg.	0.900	34.31	30.88				
(iii)		Paint	Litre	0.50	180.00	90.00				
(iv)		Red oxide	Litre	0.50	140.00	70.00				
		Fabrication, cutting, welding etc. charges except MS sheet	Kg.	9.480	8.00	75.84				
		Total - I				680.81				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.680.81				6.81				
		Add contractor's profit @ 10% i.e. on Rs. 687.62				68.76				
		Add labour cess @ 1% i.e. on Rs. 756.38				7.56				
						763.94	763.94			763.94
II		Labour								
		Taking output	1	Each						
(i)		Fitter (2nd Class)	Day	1/8	190.00	23.75				
(ii)		Mazdoor (Skilled)	Day	1/8	164.69	20.59				
(iii)		Painter (2nd Class)	Day	1/8	190.00	23.75				
		Total - II				68.09				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.68.09				0.68				
		Add contractor's profit @ 21.5% i.e. on Rs. 68.77				14.79				
		Add labour cess @ 1% i.e. on Rs. 83.56				0.84				
		Labour for	1	Each		84.40				
		Labour for	1	Each		84.40	84.40		84.40	
		Cost for	1	Each			848.34			
		Add 10% for sub mountainous region								8.44
		Labour for	1	Each						92.84
		Cost for	1	Each						856.78

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(xvi)		MS sheet metal box (1mm thick) of length 1225mm breadth 400mm height 425mm with MS angle iron 40mm x 40mm x 5mm frame at the base of the box for storing metal hallide flud light fitting in it. Sheet metal should have top portion hinged with 6" (6 inch) hinges and divided into equal 8 compartments with sheet 1mm thick.										
		Unit :- 1 Each										
I		Materials										
(i)		MS sheet 1mm thick (7.850 kg. per sq. metre) 4.04 sq. mtr. = 31.71 kg.			Kg.	31.710	41.00	1300.11				
(ii)		MS angle iron 40mm x 40mm x 5mm thick (3 kg. per metre) =3.25 mtr. = 9.750 kg.			Kg.	9.750	34.31	334.52				
(iii)		MS hinges 6" (6 inch)			Each	3.000	30.00	90.00				
(iv)		Paint			Litre	0.25	180.00	45.00				
(v)		Red oxide			Litre	0.25	140.00	35.00				
(vi)		Fabrication, cutting, welding etc. charges except MS sheet			Kg.	9.750	8.00	78.00				
(vii)		Fabrication, cutting, welding etc. charges for MS sheet only			Kg.	31.710	15.00	475.65				
		Total - I						2358.28				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.2358.28						23.58				
		Add contractor's profit @ 10% i.e. on Rs. 2381.86						238.19				
		Add labour cess @ 1% i.e. on Rs. 2620.05						26.20				
								2646.25	2646.25			2646.25
II		Labour										
		Taking output			1	Each						
(i)		Fitter (2nd Class)			Day	1/2	190.00	95.00				
(ii)		Mazdoor (Skilled)			Day	1/2	164.69	82.35				
(iii)		Painter (2nd Class)			Day	1/2	190.00	95.00				
		Total - II						272.35				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.272.35						2.72				
		Add contractor's profit @ 21.5% i.e. on Rs. 275.07						59.14				
		Add labour cess @ 1% i.e. on Rs. 334.21						3.34				
		Labour for			1	Each		337.55				
		Labour for			1	Each		337.55	337.55	337.55		
		Cost for			1	Each			2983.80			
		Add 10% for sub mountainous region										33.76
		Labour for			1	Each						371.31
		Cost for			1	Each						3017.56

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