

Chapter No. 33.13
GALVANIZED IRON PIPES AND G.I. EARTHING:

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
33.13		Supply & erection of G.I. pipe for wiring purposes including bends, inspection boxes etc., where necessary including painting as per PWD General Specifications 2010:-								
(i)		Galvanized iron pipe 15mm dia. (A class) Flushed								
		Unit :- 1 Metre								
I		Materials								
		Taking output	100	Metre						
(i)		Galvanized iron pipe 15mm dia. (A class)		Metre	100.00	67.63	6763.00			
(ii)		G.I. socket 15mm dia.		Each	8.00	16.80	134.40			
(iii)		G.I. elbow 15mm dia.		Each	8.00	19.00	152.00			
(iv)		Steel hook (for hold the pipe in the wall)		Each	100.00	3.38	338.00			
(vi)		25mm thick cement plaster 1:6 in two coats work (CSR Item No. 15.35 Rs.109.22-56.22)		Sq. m	0.40	54.00	21.60			
		Total - I					7409.00			
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.7409					74.09			
		Add contractor's profit @ 10% i.e. on Rs. 7483.09					748.31			
		Add labour cess @ 1% i.e. on Rs. 8231.4					82.31			
		Material for	100	Metre			8313.71			
		Material for	1	Metre			83.14	83.14		83.14
II		Labour								
		Taking output	100	Metre						
(i)		Wireman (1st Class)		Day	1	164.69	164.69			
(ii)		Brick layer (2nd Class)		Day	2 1/2	190.00	475.00			
(iii)		Mazdoor (Skilled)		Day	3 1/2	164.69	576.42			
		Total - II					1216.11			
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.1216.11					12.16			
		Add contractor's profit @ 21.5% i.e. on Rs. 1228.27					264.08			
		Add labour cess @ 1% i.e. on Rs. 1492.35					14.92			
		Labour for	100	Metre			1507.27			
		Labour for	1	Metre			15.07	15.07	15.07	
		Cost for	1	Metre			98.21			
		Add 10% for sub mountainous region								1.51
		Labour for	1	Metre						16.58
		Cost for	1	Metre						99.72
(ii)		Galvanized iron pipe 20mm dia. (A class) Flushed								
		Unit :- 1 Metre								
I		Materials								

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
		Taking output	100	Metre							
(i)		Galvanized iron pipe 20mm dia. (A class)		Metre	100.00	93.37	9337.00				
(ii)		G.I. socket 20mm dia.		Each	8.00	29.14	233.12				
(iii)		G.I. elbow 20mm dia.		Each	8.00	33.26	266.08				
(iv)		Steel hook (for hold the pipe in the wall)		Each	100.00	3.38	338.00				
(vi)		25mm thick cement plaster 1:6 in two coats work (CSR Item No. 15.35 Rs.109.22-56.22)		Sq. m	0.40	54.00	21.60				
		Total - I					10195.80				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.10195.8					101.96				
		Add contractor's profit @ 10% i.e. on Rs. 10297.76					1029.78				
		Add labour cess @ 1% i.e. on Rs. 11327.54					113.28				
		Material for	100	Metre			11440.82				
		Material for	1	Metre			114.41	114.41			114.41
II		Labour									
		Taking output	100	Metre							
(i)		Wireman (1st Class)		Day	1	164.69	164.69				
(ii)		Brick layer (2nd Class)		Day	2 1/2	190.00	475.00				
(iii)		Mazdoor (Skilled)		Day	3 1/2	164.69	576.42				
		Total - II					1216.11				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.1216.11					12.16				
		Add contractor's profit @ 21.5% i.e. on Rs. 1228.27					264.08				
		Add labour cess @ 1% i.e. on Rs. 1492.35					14.92				
		Labour for	100	Metre			1507.27				
		Labour for	1	Metre			15.07	15.07	15.07		
		Cost for	1	Metre				129.48			
		Add 10% for sub mountainous region									1.51
		Labour for	1	Metre							16.58
		Cost for	1	Metre							130.99
(iii)		Galvanized iron pipe 25mm dia. (A class) Flushed									
		Unit :-	1	Metre							
I		Materials									
		Taking output	100	Metre							
(i)		Galvanized iron pipe 25mm dia. (A class)		Metre	100.00	126.71	12671.00				
(ii)		G.I. socket 25mm dia.		Each	8.00	37.72	301.76				

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
(iii)		G.I. elbow 25mm dia.			Each	8.00	44.57	356.56				
(iv)		Steel hook (for hold the pipe in the wall)			Each	100.00	3.38	338.00				
(vi)		25mm thick cement plaster 1:6 in two coats work (CSR Item No. 15.35 Rs.109.22-56.22)			Sq. m	0.40	54.00	21.60				
		Total - I						13688.92				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.13688.92						136.89				
		Add contractor's profit @ 10% i.e. on Rs. 13825.81						1382.58				
		Add labour cess @ 1% i.e. on Rs. 15208.39						152.08				
		Material for	100	Metre				15360.47				
		Material for	1	Metre				153.60	153.60			153.60
II		Labour										
		Taking output	100	Metre								
(i)		Wireman (1st Class)			Day	1	164.69	164.69				
(ii)		Brick layer (2nd Class)			Day	2 1/2	190.00	475.00				
(iii)		Mazdoor (Skilled)			Day	3 1/2	164.69	576.42				
		Total - II						1216.11				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.1216.11						12.16				
		Add contractor's profit @ 21.5% i.e. on Rs. 1228.27						264.08				
		Add labour cess @ 1% i.e. on Rs. 1492.35						14.92				
		Labour for	100	Metre				1507.27				
		Labour for	1	Metre				15.07	15.07	15.07		
		Cost for	1	Metre					168.67			
		Add 10% for sub mountainous region										1.51
		Labour for	1	Metre								16.58
		Cost for	1	Metre								170.18
(iv)		Galvanized iron pipe 32mm dia. (A class) Flushed										
		Unit :-	1	Metre								
I		Materials										
		Taking output	100	Metre								
(i)		Galvanized iron pipe 32mm dia. (A class)			Metre	100.00	167.64	16764.00				
(ii)		G.I. socket 32mm dia.			Each	8.00	58.29	466.32				
(iii)		G.I. elbow 32mm dia.			Each	8.00	75.43	603.44				
(iv)		Steel hook (for hold the pipe in the wall)			Each	100.00	3.38	338.00				

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
(viii)		Charcoal	Kg.	10.00	16.00	160.00				
(ix)		Salt	Kg.	10.00	7.00	70.00				
(x)		25mm thick cement plaster 1:6 in two coats work (CSR Item No. 15.35 Rs.109.22-56.22)	Cum	0.200	54.00	10.80				
		Total - I				1631.35				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.1631.35				16.31				
		Add contractor's profit @ 10% i.e. on Rs. 1647.66				164.77				
		Add labour cess @ 1% i.e. on Rs. 1812.43				18.12				
						1830.55	1830.55			1830.55
II		Labour								
		Taking output	1	Each						
(i)		Wireman (1st Class)	Day	1/8	164.69	20.59				
(ii)		Brick layer (2nd Class)	Day	1/4	190.00	47.50				
(iii)		Mazdoor (Skilled)	Day	1	164.69	164.69				
(iv)		Mazdoor(semi skilled) for making hole with digger	Day	5	149.97	749.85				
(v)		Fitter, Turner & Pipe fitter (1st Class) for Cutting threads on 50mm dia. G.I. pipe (1.35 metre Long)	Day	1/5	223.36	44.67				
(vi)		Fitter, Turner & Pipe fitter (IInd Class) for drilling hole in 50 mm dia G.I pipe (34 holes in 1.35 meter long G.I Pipe)	Day	2/5	190.00	76.00				
		Total - II				1103.30				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.1103.3				11.03				
		Add contractor's profit @ 21.5% i.e. on Rs. 1114.33				239.58				
		Add labour cess @ 1% i.e. on Rs. 1353.91				13.54				
		Labour for	1	Each		1367.45				
		Labour for	1	Each		1367.45	1367.45	1367.45		
		Cost for	1	Each			3198.00			
		Add 10% for sub mountainous region								136.75
		Labour for	1	Each						1504.20
		Cost for	1	Each						3334.75

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)		Earthing of Sheet metal/ iron clad Switches and metallic cases etc., with No. 7/14 S.W.G. (7/2.18mm dia.) G.I. wire in 20mm dia G.I. pipe partly recessed and partly on surface complete with 135cm long 50mm dia. G.I. earth pipe with G.I. reducing socket (50mm x 20mm) including erection of the same, 10 metre below ground level with necessary charcoal & salt mixture etc., up to 13 metre in length (including boring & refilling).										
		Unit :-	1	Each								
I		Materials										
(i)		Galvanized iron pipe 20mm dia. (A class)		Metre	11.77	93.37	1098.96					
(ii)		G.I. wire no. 7/14 S.W.G. (7/2.18mm dia.)		Kg.	2.90	65.41	189.69					
(iii)		G.I. elbow 20mm dia.		Each	3.00	33.26	99.78					
(iv)		Steel hook (for hold the pipe in the wall)		Each	4.00	3.38	13.52					
(v)		Galvanized iron pipe 50mm dia. (A class)		Metre	1.35	247.40	333.99					
(vi)		G.I. reducer 50mm x 20mm		Each	1.00	102.86	102.86					
(vii)		G.I. Bolt & Nut with washer		Each	1.00	1.50	1.50					
(viii)		Charcoal		Kg.	10.00	16.00	160.00					
(ix)		Salt		Kg.	10.00	7.00	70.00					
(x)		25mm thick cement plaster 1:6 in two coats work (CSR Item No. 15.35 Rs.109.22-56.22)		Cum	0.200	54.00	10.80					
		Total - I					2081.10					
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.2081.1					20.81					
		Add contractor's profit @ 10% i.e. on Rs. 2101.91					210.19					
		Add labour cess @ 1% i.e. on Rs. 2312.1					23.12					
							2335.22					
							2335.22					2335.22
II		Labour										
		Taking output	1	Each								

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
(i)		Wireman (1st Class)	Day	1/8	164.69	20.59				
(ii)		Brick layer (2nd Class)	Day	1/4	190.00	47.50				
(iii)		Mazdoor (Skilled)	Day	1	164.69	164.69				
(iv)		Mazdoor(semi skilled) for making hole with digger	Day	5	149.97	749.85				
(v)		Fitter, Turner & Pipe fitter (1st Class) for Cutting threads on 50mm dia.	Day	1/5	223.36	44.67				
(vi)		Fitter, Turner & Pipe fitter (IInd Class) for drilling hole in 50 mm dia G.I pipe (34 holes in 1.35 meter long G.I Pipe)	Day	2/5	190.00	76.00				
		Total - II				1103.30				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.1103.3				11.03				
		Add contractor's profit @ 21.5% i.e. on Rs. 1114.33				239.58				
		Add labour cess @ 1% i.e. on Rs. 1353.91				13.54				
		Labour for 1 Each				1367.45				
		Labour for 1 Each				1367.45	1367.45		1367.45	
		Cost for 1 Each					3702.67			
		Add 10% for sub mountainous region								136.75
		Labour for 1 Each								1504.20
		Cost for 1 Each								3839.42

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)		Earthing of Sheet metal/ iron clad Switches and metallic cases etc., with No. 7/12 S.W.G. (7/2.80mm dia.) G.I. wire in 20mm dia G.I. pipe partly recessed and partly on surface complete with 135cm long 50mm dia. G.I. earth pipe with G.I. reducing socket (50mm x 20mm) including erection of the same, 10 metre below ground level with necessary charcoal & salt mixture etc., up to 13 metre in length (including boring & refilling).								
		Unit :-	1	Each						
I		Materials								
(i)		Galvanized iron pipe 20mm dia. (A class)		Metre	11.77	93.37	1098.96			
(ii)		G.I. wire no. 7/12 S.W.G. (7/2.80mm dia.)		Kg.	3.74	65.41	244.63			
(iii)		G.I. elbow 20mm dia.		Each	3.00	33.26	99.78			
(iv)		Steel hook (for hold the pipe in the wall)		Each	4.00	3.38	13.52			
(v)		Galvanized iron pipe 50mm dia. (A class)		Metre	1.35	247.40	333.99			
(vi)		G.I. reducer 50mm x 20mm		Each	1.00	102.86	102.86			
(vii)		G.I. Bolt & Nut with washer		Each	1.00	1.50	1.50			
(viii)		Charcoal		Kg.	10.00	16.00	160.00			
(ix)		Salt		Kg.	10.00	7.00	70.00			
(x)		25mm thick cement plaster 1:6 in two coats work (CSR Item No. 15.35 Rs.109.22-56.22)		Cum	0.200	54.00	10.80			
		Total - I					2136.04			
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.2136.04					21.36			
		Add contractor's profit @ 10% i.e. on Rs. 2157.4					215.74			
		Add labour cess @ 1% i.e. on Rs. 2373.14					23.73			
							2396.87			2396.87
II		Labour								
		Taking output	1	Each						
(i)		Wireman (1st Class)		Day	1/8	164.69	20.59			
(ii)		Brick layer (2nd Class)		Day	1/4	190.00	47.50			
(iii)		Mazdoor (Skilled)		Day	1	164.69	164.69			
(iv)		Mazdoor(semi skilled) for making hole with digger		Day	5	149.97	749.85			
(v)		Fitter, Turner & Pipe fitter (1st Class) for Cutting threads on 50mm dia. G.I. pipe (1.35 metre Long)		Day	1/5	223.36	44.67			
(vi)		Fitter, Turner & Pipe fitter (IInd Class) for drilling hole in 50 mm dia G.I pipe (34 holes in 1.35 meter long G.I Pipe)		Day	2/5	190.00	76.00			
		Total - II					1103.30			

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
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.1103.3				11.03				
		Add contractor's profit @ 21.5% i.e. on Rs. 1114.33				239.58				
		Add labour cess @ 1% i.e. on Rs. 1353.91				13.54				
		Labour for 1 Each				1367.45				
		Labour for 1 Each				1367.45	1367.45		1367.45	
		Cost for 1 Each					3764.32			
		Add 10% for sub mountainous region								136.75
		Labour for 1 Each								1504.20
		Cost for 1 Each								3901.07

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

G.I. EARTHING (AS ADDITIONAL LENGTH):

(viii)		Earthing of metallic cases etc., with G.I. wire No. 8 S.W.G. (4mm dia.) in 15mm dia. G.I. pipe on surface including painting etc. (as additional length)								
(a)										
		Unit :-	1	Metre						
I		Materials								
		Taking output	30.48	Metre						
(i)		Galvanized iron pipe 15mm dia. (A class)		Metre	30.48	67.63	2061.36			
(ii)		G.I. wire no. 8 S.W.G. (4mm dia.)		Kg.	3.18	59.08	187.87			
(iii)		G.I. socket 15mm dia.		Each	4.00	16.80	67.20			
(iv)		G.I. elbow 15mm dia.		Each	4.00	19.00	76.00			
(v)		MS Saddle Clamp 15mm dia.		Each	30.00	1.80	54.00			
(vi)		PVC gutties		Each	60.00	0.40	24.00			
(vii)		Iron Screw 38mm long		Each	60.00	0.80	48.00			
		Total - I					2518.43			
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.2518.43					25.18			
		Add contractor's profit @ 10% i.e. on Rs. 2543.61					254.36			
		Add labour cess @ 1% i.e. on Rs. 2797.97					27.98			
		Material for	30.48	Metre			2825.95			
		Material for	1	Metre			92.71	92.71		92.71
II		Labour								
		Taking output	30.48	Metre						
(i)		Wireman (1st Class)		Day	1/8	164.69	20.59			
(ii)		Mazdoor (Skilled)		Day	1	164.69	164.69			
		Total - II					185.28			
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.185.28					1.85			
		Add contractor's profit @ 21.5% i.e. on Rs. 187.13					40.23			
		Add labour cess @ 1% i.e. on Rs. 227.36					2.27			
		Labour for	30.48	Metre			229.63			
		Labour for	1	Metre			7.53	7.53	7.53	
		Cost for	1	Metre				100.24		
		Add 10% for sub mountainous region								0.75
		Labour for	1	Metre						8.28
		Cost for	1	Metre						100.99

(b)		Earthing of metallic cases etc., with G.I. wire No. 7/14 S.W.G. (7/2.18mm dia.) in 20mm dia. G.I. pipe on surface including painting etc. (as additional length)								
		Unit :-	1	Metre						
I		Materials								
		Taking output	30.48	Metre						

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
(i)		Galvanized iron pipe 20mm dia. (A class)	Metre	30.48	93.37	2845.92				
(ii)		G.I. wire no. 7/14 S.W.G. (7/2.18mm dia.)	Kg.	5.486	65.41	358.84				
(iii)		G.I. socket 20mm dia.	Each	4.00	29.14	116.56				
(iv)		G.I. elbow 20mm dia.	Each	4.00	33.26	133.04				
(v)		MS Saddle Clamp 20mm dia.	Each	30.00	2.00	60.00				
(vi)		PVC gutties	Each	60.00	0.40	24.00				
(vii)		Iron Screw 38mm long	Each	60.00	0.80	48.00				
		Total - I				3586.36				
		Sundries such as carriage of material and other hidden charges etc. @1% on Rs.3586.36				35.86				
		Add contractor's profit @ 10% i.e. on Rs. 3622.22				362.22				
		Add labour cess @ 1% i.e. on Rs. 3984.44				39.84				
		Material for 30.48 Metre				4024.28				
		Material for 1 Metre				132.03	132.03			132.03
II		Labour								
		Taking output 30.48 Metre								
(i)		Wireman (1st Class)	Day	1/8	164.69	20.59				
(ii)		Mazdoor (Skilled)	Day	1	164.69	164.69				
		Total - II				185.28				
		Sundries such as uses of tools and other hidden charges etc. @1% on Rs.185.28				1.85				
		Add contractor's profit @ 21.5% i.e. on Rs. 187.13				40.23				
		Add labour cess @ 1% i.e. on Rs. 227.36				2.27				
		Labour for 30.48 Metre				229.63				
		Labour for 1 Metre				7.53	7.53	7.53		
		Cost for 1 Metre					139.56			
		Add 10% for sub mountainous region								0.75
		Labour for 1 Metre								8.28
		Cost for 1 Metre								140.31

(c)		Earthing of metallic cases etc., with G.I. wire No. 7/12 S.W.G. (7/2.80mm dia.) in 20mm dia. G.I. pipe on surface including painting etc. (as additional length)								
		Unit :- 1 Metre								
I		Materials								
		Taking output 30.48 Metre								
(i)		Galvanized iron pipe 20mm dia. (A class)	Metre	30.48	93.37	2845.92				
(ii)		G.I. wire no. 7/12 S.W.G. (7/2.80mm dia.)	Kg.	9.144	65.41	598.11				
(iii)		G.I. socket 20mm dia.	Each	4.00	29.14	116.56				
(iv)		G.I. elbow 20mm dia.	Each	4.00	33.26	133.04				
(v)		MS Saddle Clamp 20mm dia.	Each	30.00	2.00	60.00				

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
(vi)		PVC gutties	Each	60.00	0.40	24.00				
(vii)		Iron Screw 38mm long	Each	60.00	0.80	48.00				
		Total - I				3825.63				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.3825.63				38.26				
		Add contractor's profit @ 10% i.e. on Rs. 3863.89				386.39				
		Add labour cess @ 1% i.e. on Rs. 4250.28				42.50				
		Material for 30.48 Metre				4292.78				
		Material for 1 Metre				140.84	140.84			140.84
II	Labour									
		Taking output 30.48 Metre								
(i)		Wireman (1st Class)	Day	1/8	164.69	20.59				
(ii)		Mazdoor (Skilled)	Day	1	164.69	164.69				
		Total - II				185.28				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.185.28				1.85				
		Add contractor's profit @ 21.5% i.e. on Rs. 187.13				40.23				
		Add labour cess @ 1% i.e. on Rs. 227.36				2.27				
		Labour for 30.48 Metre				229.63				
		Labour for 1 Metre				7.53	7.53	7.53		
		Cost for 1 Metre					148.37			
		Add 10% for sub mountainous region								0.75
		Labour for 1 Metre								8.28
		Cost for 1 Metre								149.12

(d)		Earthing of metallic cases etc., with G.I. wire No. 8 S.W.G. (4mm dia.) in 15mm dia. G.I. pipe recessed in wall and floor etc., (as additional length)								
		Unit :- 1 Metre								
I	Materials									
		Taking output 30.48 Metre								
(i)		Galvanized iron pipe 15mm dia. (A class)	Metre	30.48	67.63	2061.36				
(ii)		G.I. wire no. 8 S.W.G. (4mm dia.)	Kg.	3.18	59.08	187.87				
(iii)		G.I. socket 15mm dia.	Each	4.00	16.80	67.20				
(iv)		G.I. elbow 15mm dia.	Each	4.00	19.00	76.00				
(v)		25mm thick cement plaster 1:6 in two coats work (CSR Item No. 15.35 Rs.109.22-56.22)	Cum	0.087	54.00	4.70				
(vi)		Steel hook (for hold the pipe in the wall)	Each	30.00	3.38	101.40				
		Total - I				2498.53				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.2498.53				24.99				

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
		Add contractor's profit @ 10% i.e. on Rs. 2523.52				252.35				
		Add labour cess @ 1% i.e. on Rs. 2775.87				27.76				
		Material for 30.48 Metre				2803.63				
		Material for 1 Metre				91.98	91.98			91.98
II		Labour								
		Taking output 30.48 Metre								
(i)		Wireman (1st Class)	Day	1/10	164.69	16.47				
(ii)		Brick layer (2nd Class)	Day	1 1/4	190.00	237.50				
(iii)		Mazdoor (Skilled)	Day	2	164.69	329.38				
		Total - II				583.35				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.583.35				5.83				
		Add contractor's profit @ 21.5% i.e. on Rs. 589.18				126.67				
		Add labour cess @ 1% i.e. on Rs. 715.85				7.16				
		Labour for 30.48 Metre				723.01				
		Labour for 1 Metre				23.72	23.72	23.72		
		Cost for 1 Metre					115.70			
		Add 10% for sub mountainous region								2.37
		Labour for 1 Metre								26.09
		Cost for 1 Metre								118.07

(e)		Earthing of metallic cases etc., with G.I. stranded wire No. 7/14 S.W.G. (7/2.18mm) in 20mm dia. G.I. pipe recessed in wall and floor etc. (as additional length)								
		Unit :- 1 Metre								
I		Materials								
		Taking output 30.48 Metre								
(i)		Galvanized iron pipe 20mm dia. (A class)	Metre	30.48	93.37	2845.92				
(ii)		G.I. wire no. 7/14 S.W.G. (7/2.18mm dia.)	Kg.	5.486	59.08	324.11				
(iii)		G.I. socket 20mm dia.	Each	4.00	29.14	116.56				
(iv)		G.I. elbow 20mm dia.	Each	4.00	33.26	133.04				
(v)		25mm thick cement plaster 1:6 in two coats work (CSR Item No. 15.35 Rs.109.22-56.22)	Cum	0.087	54.00	4.70				
(vi)		Steel hook (for hold the pipe in the wall)	Each	30.00	3.38	101.40				
		Total - I				3525.73				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.3525.73				35.26				
		Add contractor's profit @ 10% i.e. on Rs. 3560.99				356.10				
		Add labour cess @ 1% i.e. on Rs. 3917.09				39.17				
		Material for 30.48 Metre				3956.26				
		Material for 1 Metre				129.80	129.80			129.80
II		Labour								

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
		Taking output	30.48	Metre						
(i)		Wireman (1st Class)		Day	1/10	164.69	16.47			
(ii)		Brick layer (2nd Class)		Day	1 1/4	190.00	237.50			
(iii)		Mazdoor (Skilled)		Day	2	164.69	329.38			
		Total - II					583.35			
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.583.35					5.83			
		Add contractor's profit @ 21.5% i.e. on Rs. 589.18					126.67			
		Add labour cess @ 1% i.e. on Rs. 715.85					7.16			
		Labour for	30.48	Metre			723.01			
		Labour for	1	Metre			23.72		23.72	
		Cost for	1	Metre						
		Add 10% for sub mountainous region								2.37
		Labour for	1	Metre						26.09
		Cost for	1	Metre						155.89

(f)		Earthing of metallic cases etc., with G.I. stranded wire No. 7/12 S.W.G. (7/2.80mm) in 20mm dia. G.I. pipe recessed in wall and floor etc. (as additional length)								
		Unit :-	1	Metre						
I		Materials								
		Taking output	30.48	Metre						
(i)		Galvanized iron pipe 20mm dia. (A class)		Metre	30.48	93.37	2845.92			
(ii)		G.I. wire no. 7/12 S.W.G. (7/2.80mm dia.)		Kg.	5.486	65.41	358.84			
(iii)		G.I. socket 20mm dia.		Each	4.00	29.14	116.56			
(iv)		G.I. elbow 20mm dia.		Each	4.00	33.26	133.04			
(v)		25mm thick cement plaster 1:6 in two coats work (CSR Item No. 15.35 Rs.109.22-56.22)		Cum	0.087	54.00	4.70			
(vi)		Steel hook (for hold the pipe in the wall)		Each	30.00	3.38	101.40			
		Total - I					3560.46			
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.3560.46					35.60			
		Add contractor's profit @ 10% i.e. on Rs. 3596.06					359.61			
		Add labour cess @ 1% i.e. on Rs. 3955.67					39.56			
		Material for	30.48	Metre			3995.23			
		Material for	1	Metre			131.08		131.08	131.08
II		Labour								
		Taking output	30.48	Metre						
(i)		Wireman (1st Class)		Day	1/10	164.69	16.47			
(ii)		Brick layer (2nd Class)		Day	1 1/4	190.00	237.50			
(iii)		Mazdoor (Skilled)		Day	2	164.69	329.38			
		Total - II					583.35			

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
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.583.35				5.83				
		Add contractor's profit @ 21.5% i.e. on Rs. 589.18				126.67				
		Add labour cess @ 1% i.e. on Rs. 715.85				7.16				
		Labour for 30.48 Metre				723.01				
		Labour for 1 Metre				23.72	23.72	23.72		
		Cost for 1 Metre					154.80			
		Add 10% for sub mountainous region								2.37
		Labour for 1 Metre								26.09
		Cost for 1 Metre								157.17

BONDING TO EARTH WITH G.I. WIRE:

(viii)		Bonding to earth with G.I. wire No. 8S.W.G. (4mm dia) in 20mm dia. heavy gauge (1.6 mm thick) welded conduit pipe (on surface) including painting etc.										
(a)		Unit :-	1	Metre								
I		Materials										
(i)		Heavy gauge welded conduit pipe 20mm dia. (ISI marked 1.60mm thick)		Metre	1.00	50.64	50.64					
(ii)		G.I. wire no. 8 S.W.G. (4mm dia.)		Metre	1.00	6.46	6.46					
(iii)		MS Saddle Clamp 20mm dia.		Each	1.00	2.00	2.00					
(iv)		PVC gutties		Each	2.00	0.40	0.80					
(v)		Iron Screw 38mm long		Each	2.00	0.80	1.60					
		Total - I					61.50					
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.61.5					0.62					
		Add contractor's profit @ 10% i.e. on Rs. 62.12					6.21					
		Add labour cess @ 1% i.e. on Rs. 68.33					0.68					
							69.01	69.01			69.01	
II		Labour										
		Taking output	1	Metre								
(i)		Wireman (1st Class)		Day	1/100	164.69	1.65					
(ii)		Mazdoor (Skilled)		Day	1/100	164.69	1.65					
		Total - II					3.30					
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.3.3					0.03					
		Add contractor's profit @ 21.5% i.e. on Rs. 3.33					0.72					
		Add labour cess @ 1% i.e. on Rs. 4.05					0.04					
		Labour for 1 Metre					4.09					
		Labour for 1 Metre					4.09	4.09	4.09			
		Cost for 1 Metre						73.10				

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
		Add 10% for sub mountainous region								0.41
		Labour for	1	Metre						4.50
		Cost for	1	Metre						73.51

(b)		Bonding to earth with G.I. wire No. 7/14S.W.G. (7/2.18mm dia) in 20mm dia. heavy gauge (1.6mm thick) welded conduit pipe (on surface) including painting etc.										
		Unit :-	1	Metre								
I		Materials										
(i)		Heavy gauge welded conduit pipe 20mm dia. (ISI marked 1.60mm thick)			Metre	1.00	50.64	50.64				
(ii)		G.I. wire no. 7/14 S.W.G. (7/2.18mm dia.)			Metre	1.00	14.54	14.54				
(iii)		MS Saddle Clamp 20mm dia.			Each	1.00	2.00	2.00				
(iv)		PVC gutties			Each	2.00	0.40	0.80				
(v)		Iron Screw 38mm long			Each	2.00	0.80	1.60				
		Total - I						69.58				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.69.58						0.70				
		Add contractor's profit @ 10% i.e. on Rs. 70.28						7.03				
		Add labour cess @ 1% i.e. on Rs. 77.31						0.77				
								78.08		78.08		78.08
II		Labour										
		Taking output	1	Metre								
(i)		Wireman (1st Class)			Day	1/100	164.69	1.65				
(ii)		Mazdoor (Skilled)			Day	1/100	164.69	1.65				
		Total - II						3.30				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.3.3						0.03				
		Add contractor's profit @ 21.5% i.e. on Rs. 3.33						0.72				
		Add labour cess @ 1% i.e. on Rs. 4.05						0.04				
		Labour for	1	Metre				4.09				
		Labour for	1	Metre				4.09		4.09		
		Cost for	1	Metre						82.17		
		Add 10% for sub mountainous region										0.41
		Labour for	1	Metre								4.50
		Cost for	1	Metre								82.58

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)		Bonding to earth with G.I. wire No. 7/12S.W.G. (7/2.80mm dia) in 25mm dia. heavy gauge (1.6mm thick) welded conduit pipe (on surface) including painting etc.								
		Unit :-	1	Metre						
I		Materials								
(i)		Heavy gauge welded conduit pipe 25mm dia. (ISI marked 1.60mm thick)								
				Metre	1.00	63.30	63.30			
(ii)		G.I. wire no. 7/12 S.W.G. (7/2.80mm dia.)		Metre	1.00	18.69	18.69			
(iii)		MS Saddle Clamp 25mm dia.		Each	1.00	3.00	3.00			
(iv)		PVC gutties		Each	2.00	0.40	0.80			
(v)		Iron Screw 38mm long		Each	2.00	0.80	1.60			
		Total - I					87.39			
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.87.39					0.87			
		Add contractor's profit @ 10% i.e. on Rs. 88.26					8.83			
		Add labour cess @ 1% i.e. on Rs. 97.09					0.97			
							98.06			
							98.06			98.06
II		Labour								
		Taking output	1	Metre						
(i)		Wireman (1st Class)		Day	1/100	164.69	1.65			
(ii)		Mazdoor (Skilled)		Day	1/100	164.69	1.65			
		Total - II					3.30			
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.3.3					0.03			
		Add contractor's profit @ 21.5% i.e. on Rs. 3.33					0.72			
		Add labour cess @ 1% i.e. on Rs. 4.05					0.04			
		Labour for	1	Metre			4.09			
		Labour for	1	Metre			4.09		4.09	
		Cost for	1	Metre						
							102.15			
		Add 10% for sub mountainous region								0.41
		Labour for	1	Metre						4.50
		Cost for	1	Metre						102.56

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)		Bonding to earth with G.I. wire No. 8S.W.G. (4mm dia) in 20mm dia. heavy gauge (1.6 mm thick) welded conduit pipe (flushed).								
		Unit :- 1 Metre								
I		Materials								
(i)		Heavy gauge welded conduit pipe 20mm dia. (ISI marked 1.60mm thick)	Metre	1.00	50.64	50.64				
(ii)		G.I. wire no. 8 S.W.G. (4mm dia.)	Metre	1.00	6.46	6.46				
(iii)		Steel hook (for hold the pipe in the wall)	Each	1.00	3.38	3.38				
(iv)		25mm thick cement plaster 1:6 in two coats work (CSR Item No. 15.35 Rs.109.22-56.22)	Cum	0.003	54.00	0.16				
		Total - I				60.64				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.60.64				0.61				
		Add contractor's profit @ 10% i.e. on Rs. 61.25				6.13				
		Add labour cess @ 1% i.e. on Rs. 67.38				0.67				
						68.05	68.05			68.05
II		Labour								
		Taking output	1 Metre							
(i)		Wireman (1st Class)	Day	1/250	164.69	0.66				
(ii)		Brick layer (2nd Class)	Day	1/25	190.00	7.60				
(iii)		Mazdoor (Skilled)	Day	7/100	164.69	11.53				
		Total - II				19.79				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.19.79				0.20				
		Add contractor's profit @ 21.5% i.e. on Rs. 19.99				4.30				
		Add labour cess @ 1% i.e. on Rs. 24.29				0.24				
		Labour for	1 Metre			24.53				
		Labour for	1 Metre			24.53	24.53	24.53		
		Cost for	1 Metre				92.58			
		Add 10% for sub mountainous region								2.45
		Labour for	1 Metre							26.98
		Cost for	1 Metre							95.03

(e)		Bonding to earth with G.I. wire No. 7/14S.W.G. (7/2.18mm dia) in 20mm dia. heavy gauge (1.6 mm thick) welded conduit pipe (flushed).								
		Unit :- 1 Metre								
I		Materials								

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
(i)		Heavy gauge welded conduit pipe 20mm dia. (ISI marked 1.60mm thick)	Metre	1.00	50.64	50.64				
(ii)		G.I. wire no. 7/14 S.W.G. (7/2.18mm dia.)	Metre	1.00	14.54	14.54				
(iii)		Steel hook (for hold the pipe in the wall)	Each	1.00	3.38	3.38				
(iv)		25mm thick cement plaster 1:6 in two coats work (CSR Item No. 15.35 Rs.109.22-56.22)	Cum	0.003	54.00	0.16				
		Total - I				68.72				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.68.72				0.69				
		Add contractor's profit @ 10% i.e. on Rs. 69.41				6.94				
		Add labour cess @ 1% i.e. on Rs. 76.35				0.76				
						77.11	77.11			77.11
II		Labour								
		Taking output	1	Metre						
(i)		Wireman (1st Class)	Day	1/250	164.69	0.66				
(ii)		Brick layer (2nd Class)	Day	1/25	190.00	7.60				
(iii)		Mazdoor (Skilled)	Day	7/100	164.69	11.53				
		Total - II				19.79				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.19.79				0.20				
		Add contractor's profit @ 21.5% i.e. on Rs. 19.99				4.30				
		Add labour cess @ 1% i.e. on Rs. 24.29				0.24				
		Labour for	1	Metre		24.53				
		Labour for	1	Metre		24.53	24.53		24.53	
		Cost for	1	Metre			101.64			
		Add 10% for sub mountainous region								2.45
		Labour for	1	Metre						26.98
		Cost for	1	Metre						104.09

(f)		Bonding to earth with G.I. wire No. 7/12S.W.G. (7/2.80mm dia) in 25mm dia. heavy gauge (1.6 mm thick) welded conduit pipe (flushed).								
		Unit :-	1	Metre						
I		Materials								
(i)		Heavy gauge welded conduit pipe 25mm dia. (ISI marked 1.60mm thick)	Metre	1.00	63.30	63.30				
(ii)		G.I. wire no. 7/12 S.W.G. (7/2.80mm dia.)	Metre	1.00	18.69	18.69				
(iii)		Steel hook (for hold the pipe in the wall)	Each	1.00	3.38	3.38				

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)		25mm thick cement plaster 1:6 in two coats work (CSR Item No. 15.35 Rs.109.22-56.22)	Cum	0.400	54.00	21.60				
		Total - I				106.97				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.106.97				1.07				
		Add contractor's profit @ 10% i.e. on Rs. 108.04				10.80				
		Add labour cess @ 1% i.e. on Rs. 118.84				1.19				
						120.03	120.03			120.03
II		Labour								
		Taking output	1	Metre						
(i)		Wireman (1st Class)	Day	1/250	164.69	0.66				
(ii)		Brick layer (2nd Class)	Day	1/25	190.00	7.60				
(iii)		Mazdoor (Skilled)	Day	7/100	164.69	11.53				
		Total - II				19.79				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.19.79				0.20				
		Add contractor's profit @ 21.5% i.e. on Rs. 19.99				4.30				
		Add labour cess @ 1% i.e. on Rs. 24.29				0.24				
		Labour for	1	Metre		24.53				
		Labour for	1	Metre		24.53	24.53	24.53		
		Cost for	1	Metre			144.56			
		Add 10% for sub mountainous region								2.45
		Labour for	1	Metre						26.98
		Cost for	1	Metre						147.01

(g)		Bonding to earth with 4mm dia. G.I. wire behind casing or fixed with stapples on wall.								
		Unit :-	1	Each						
I		Materials								
(ii)		G.I. wire no. 8 S.W.G. (4mm dia.)	Metre	1.00	6.46	6.46				
(iii)		G.I. Stapple	Each	1.00	0.25	0.25				
(iv)		PVC gutties	Each	1.00	0.40	0.40				
		Total - I				7.11				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.7.11				0.07				
		Add contractor's profit @ 10% i.e. on Rs. 7.18				0.72				
		Add labour cess @ 1% i.e. on Rs. 7.9				0.08				
						7.98	7.98			7.98

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
II		Labour								
		Taking output	1	Each						
(i)		Wireman (1st Class)	Day	1/250	164.69	0.66				
(ii)		Mazdoor (Skilled)	Day	1/200	164.69	0.82				
		Total - II				1.48				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.1.48				0.01				
		Add contractor's profit @ 21.5% i.e. on Rs. 1.49				0.32				
		Add labour cess @ 1% i.e. on Rs. 1.81				0.02				
		Labour for	1	Each		1.83				
		Labour for	1	Each		1.83	1.83		1.83	
		Cost for	1	Each			9.81			
		Add 10% for sub mountainous region								0.18
		Labour for	1	Each						2.01
		Cost for	1	Each						9.99