

### Chapter No. 33.33

## LAYING OF UNDER GROUND CABLES, DISMENTALLING & ERECTION OF POLES AND CEMENT CONCRETE MUFFS:

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
33.33	(i)	Laying of under ground cable to be laid 1 metre below ground level including excavation, sand cushioning, covering with sand & bricks and back filling the trench etc.										
		Unit :-			1	Metre						
I		Materials										
		Taking output			50	Metre						
(i)		Bricks (2nd Class) of Pb. PWD specifications including transportation etc.			1000 Nos.	0.875	2200.00	1925.00				
(ii)		Sand including transportation etc.			Cum	1.90	200.59	381.12				
		Total - I						2306.12				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.2306.12						23.06				
		Add contractor's profit @ 10% i.e. on Rs. 2329.18						232.92				
		Add labour cess @ 1% i.e. on Rs. 2562.1						25.62				
		Material for			50	Metre		2587.72				
		Material for			1	Metre		51.75	51.75			51.75
II		Labour										
		Taking output			50	Metre						
(i)		Excavation including refilling (Item No. 6.6 of CSR Chapter No. 6)			Cum	17.50	66.28	1159.90				
(ii)		Wireman (1st Class)			1/2 Nos.	Day	1	164.69	82.35			
(iii)		Mazdoor (Skilled)			2 Nos.	Day	1	164.69	329.38			
		Total - II						1571.63				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.1571.63						15.72				
		Add contractor's profit @ 21.5% i.e. on Rs. 1587.35						341.28				
		Add labour cess @ 1% i.e. on Rs. 1928.63						19.29				
		Labour for			50	Metre		1947.92				
		Labour for			1	Metre		38.96	38.96	38.96		
		Cost for			1	Metre			90.71			
		Add 10% for sub mountainous region										3.90
		Labour for			1	Metre						42.86
		Cost for			1	Metre						94.61

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
(ii)		Labour for dismantling G.I. pipe pole upto length 6.1 m.										
			Unit :-	1	Each							
I		Materials										
								0.00	0.00			0.00
II		Labour										
			Taking output	1	Each							
(i)		Lineman (1st Class)			Day	1/4	181.86	45.47				
(ii)		Mazdoor (Skilled)			Nos.	1/4	164.69	82.35				
		Total - II						127.82				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.127.82						1.28				
		Add contractor's profit @ 21.5% i.e. on Rs. 129.1						27.76				
		Add labour cess @ 1% i.e. on Rs. 156.86						1.57				
			Labour for	1	Each			158.43				
			Labour for	1	Each			158.43	158.43	158.43		
			Cost for	1	Each				158.43			
		Add 10% for sub mountainous region										15.84
			Labour for	1	Each							174.27
			Cost for	1	Each							174.27

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)		<b>Labour for dismantling 3-stepped steel tubular pole upto 16m.</b>								
		Unit :-	1	Each						
<b>I</b>		<b>Materials</b>								
						0.00	<b>0.00</b>			<b>0.00</b>
<b>II</b>		<b>Labour</b>								
		<b>Taking output</b>	1	Each						
(i)		Lineman (1st Class)		Day	1/2	181.86	90.93			
(ii)		Mazdoor (Skilled)	4	Nos.	Day	164.69	329.38			
		Total - II					420.31			
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.420.31					4.20			
		Add contractor's profit @ 21.5% i.e. on Rs. 424.51					91.27			
		Add labour cess @ 1% i.e. on Rs. 515.78					5.16			
		Labour for	1	Each			<b>520.94</b>			
		Labour for	1	Each			520.94	<b>520.94</b>	520.94	
		Cost for	1	Each				<b>520.94</b>		
		<b>Add 10% for sub mountainous region</b>								52.09
		Labour for	1	Each						<b>573.03</b>
		Cost for	1	Each						<b>573.03</b>

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)		Erection of G.I. pipe pole upto 6 m length in cement concrete 1:2:4 up to ground level but excluding cost of pole including two coats of approved aluminium paint etc.								
		Unit :-	1	Each						
<b>I</b>		<b>Materials</b>								
(i)		Cement concrete 1:2:4		Cum.	0.10	4556.00	455.60			
(ii)		Aluminium paint		Litre	0.15	180.00	27.00			
		Total - I					482.60			
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.482.6					4.83			
		Add contractor's profit @ 10% i.e. on Rs. 487.43					48.74			
		Add labour cess @ 1% i.e. on Rs. 536.17					5.36			
							541.53		541.53	541.53
<b>II</b>		<b>Labour</b>								
		Taking output	1	Each						
(i)		Lineman (1st Class)		Day	1/6	181.86	30.31			
(ii)		Brick layer (2nd Class)		Day	1/6	190.00	31.67			
(iii)		Mazdoor (Skilled)	2	Nos.	Day	1/6	164.69			
		Total - II					116.88			
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.116.88					1.17			
		Add contractor's profit @ 21.5% i.e. on Rs. 118.05					25.38			
		Add labour cess @ 1% i.e. on Rs. 143.43					1.43			
		Labour for	1	Each			144.86			
		Labour for	1	Each			144.86		144.86	
		Cost for	1	Each					686.39	
		Add 10% for sub mountainous region								14.49
		Labour for	1	Each						159.35
		Cost for	1	Each						700.88

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
(v)		Erection of 3 stepped steel tubular pole upto 10 m length in cement concrete 1:2:4 up to ground level but excluding cost of pole including two coats of approved aluminium paint etc.								
		Unit :-	1	Each						
<b>I</b>		<b>Materials</b>								
(i)		Cement concrete 1:2:4		Cum.	0.22	4556.00	1002.32			
(ii)		Aluminium paint		Litre	0.65	180.00	117.00			
		Total - I					1119.32			
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.1119.32					11.19			
		Add contractor's profit @ 10% i.e. on Rs. 1130.51					113.05			
		Add labour cess @ 1% i.e. on Rs. 1243.56					12.44			
							1256.00		1256.00	1256.00
<b>II</b>		<b>Labour</b>								
		Taking output	1	Each						
(i)		Lineman (1st Class)		Day	1/6	181.86	30.31			
(ii)		Brick layer (2nd Class)		Day	1/6	190.00	31.67			
(iii)		Mazdoor (Skilled)	4	Nos.	Day	1/6	164.69			
		Total - II					171.77			
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.171.77					1.72			
		Add contractor's profit @ 21.5% i.e. on Rs. 173.49					37.30			
		Add labour cess @ 1% i.e. on Rs. 210.79					2.11			
		Labour for	1	Each			212.90			
		Labour for	1	Each			212.90		212.90	
		Cost for	1	Each					1468.90	
		Add 10% for sub mountainous region								21.29
		Labour for	1	Each						234.19
		Cost for	1	Each						1490.19

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)		Making of cement concrete muff of overall size 450mmdia., 45cm long (15cm below ground level) with 1:2:4 cement concrete mixture. The muff is to be made around the steel tubular pole/ GI pipe pole. The outer surface of the muff shall be finished with 1:2 cement plaster with two coats of white snowcem complete in all respect as approved and desired by the Engineer In-Charge at site.								
		Unit :-	1	Each						
<b>I</b>		<b>Materials</b>								
(i)		Cement concrete 1:2:4		Cum.	0.07	4556.00	318.92			
(ii)		White Snowcem		Kg.	0.100	25.00	2.50			
		Total - I					321.42			
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.321.42					3.21			
		Add contractor's profit @ 10% i.e. on Rs. 324.63					32.46			
		Add labour cess @ 1% i.e. on Rs. 357.09					3.57			
							360.66		360.66	360.66
<b>II</b>		<b>Labour</b>								
		Taking output	1	Each						
(i)		Lineman (1st Class)		Day	1/20	181.86	9.09			
(ii)		Mazdoor (Skilled)	2	Nos.	Day	1/20	164.69	16.47		
		Total - II					25.56			
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.25.56					0.26			
		Add contractor's profit @ 21.5% i.e. on Rs. 25.82					5.55			
		Add labour cess @ 1% i.e. on Rs. 31.37					0.31			
		Labour for	1	Each			31.68			
		Labour for	1	Each			31.68		31.68	
		Cost for	1	Each					392.34	
		Add 10% for sub mountainous region								3.17
		Labour for	1	Each						34.85
		Cost for	1	Each						395.51

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
(vii)		Making of cement concrete muff of overall size 450mmdia., 60cm long (15cm below ground level) with 1:2:4 cement concrete mixture. The muff is to be made around the steel tubular pole/ GI pipe pole. The outer surface of the muff shall be finished with 1:2 cement plaster with two coats of white snowcem complete in all respect as approved and desired by the Engineer In-Charge at site.								
		Unit :-	1	Each						
<b>I</b>		<b>Materials</b>								
(i)		Cement concrete 1:2:4		Cum.	0.09	4556.00	410.04			
(ii)		White Snowcem		Kg.	0.120	25.00	3.00			
		Total - I					413.04			
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.413.04					4.13			
		Add contractor's profit @ 10% i.e. on Rs. 417.17					41.72			
		Add labour cess @ 1% i.e. on Rs. 458.89					4.59			
							463.48	<b>463.48</b>		<b>463.48</b>
<b>II</b>		<b>Labour</b>								
		<b>Taking output</b>	1	Each						
(i)		Lineman (1st Class)		Day	1/16	181.86	11.28			
(ii)		Mazdoor (Skilled)	2	Nos.	Day	1/16	164.69	20.42		
		Total - II					31.70			
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.31.7					0.32			
		Add contractor's profit @ 21.5% i.e. on Rs. 32.02					6.88			
		Add labour cess @ 1% i.e. on Rs. 38.9					0.39			
		Labour for	1	Each			<b>39.29</b>			
		Labour for	1	Each			39.29	<b>39.29</b>	39.29	
		Cost for	1	Each			<b>502.77</b>			
		<b>Add 10% for sub mountainous region</b>								3.93
		Labour for	1	Each						<b>43.22</b>
		Cost for	1	Each						<b>506.70</b>

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)		Making of CC muff of overall size 450mm dia., 80cm long with 1:2:4 CC mixture. The muff is to be made around the steel tubular pole sufficient to completely flush a MCB DB SPN 4way (DD) with hinged water tight cover with locking arrangement having 1SP MCB of reqd.capacity fixed on din bar. The MCB DB is to be fixed with the pole by a MS flat clamp of size 20mmx2mm thick. The Box shall be fitted with bakelite strip size 8"x1"x3/8" deep fixed with the help of steel screws. 4 Nos. Brass links(3way)of size 1/2"x1/2" is to be fixed on the bakelite strip with the help of steel screws.PVC pipe40mm dia.(2No.x0.60m) should be provided for incoming and outgoing cables. The outer surface of the muff shall be finished with pure cement & 2 coats of white snowcem and making an extra collar will be provided with 1:2:4 Cement Sand & Concrete mixture around the Steel tubular pole. The size of collar (height is 16"&dia is 12" including pole dia i.e. 168.3mm) complete in all respect.								
		Unit :-	1	Each						
<b>I</b>		<b>Materials</b>								
(i)		Cement concrete 1:2:4		Cum.	0.09	4556.00	410.04			
(ii)		White Snowcem		Kg.	0.120	25.00	3.00			
(iii)		Sheet metal double door S.P. & N. distribution board (dust protected) provided with bus bar, neutral link and din bar, suitable for incorporating MCB's/ RCBO/ RCCB's, 4 way each		Each	1.00	494.81	494.81			
(iv)		Miniature circuit breaker single pole 6 to 32amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply		Each	1.00	105.80	105.80			
		Total - I					1013.65			
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.1013.65					10.14			
		Add contractor's profit @ 10% i.e. on Rs. 1023.79					102.38			
		Add labour cess @ 1% i.e. on Rs. 1126.17					11.26			
							1137.43			1137.43
<b>II</b>		<b>Labour</b>								
		Taking output	1	Each						
(i)		Lineman (1st Class)		Day	1/12	181.86	15.16			
(ii)		Mazdoor (Skilled)	2	Nos.	Day	1/12	27.45			
		Total - II					42.61			
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.42.61					0.43			
		Add contractor's profit @ 21.5% i.e. on Rs. 43.04					9.25			



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 labour cess @ 1% i.e. on Rs. 52.29				0.52				
		Labour for	1	Each		52.81				
		Labour for	1	Each		52.81	52.81		52.81	
		Cost for	1	Each			1190.24			
		<b>Add 10% for sub mountainous region</b>								5.28
		Labour for	1	Each						58.09
		Cost for	1	Each						1195.52

(ix)		Making of cement concrete muff of overall size 450mmdia., 45cm long with 1:2:4 cement concrete mixture. The muff is to be made around the steel tubular pole/ GI pipe pole. The outer surface of the muff shall be finished with pure cement and two coats of white snowcem complete in all respect as approved and desired by the Engineer In-Charge at site.											
		Unit :-	1	Each									
I		<b>Materials</b>											
(i)		Cement concrete 1:2:4			Cum.	0.07	4556.00	318.92					
(ii)		White Snowcem			Kg.	0.100	25.00	2.50					
		Total - I					321.42						
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.321.42					3.21						

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. 324.63				32.46				
		Add labour cess @ 1% i.e. on Rs. 357.09				3.57				
						360.66	<b>360.66</b>			<b>360.66</b>
<b>II</b>		<b>Labour</b>								
		<b>Taking output</b>	1	Each						
(i)		Lineman (1st Class)	Day	1/20	181.86	9.09				
(ii)		Mazdoor (Skilled)	Day	1/20	164.69	16.47				
		Total - II				25.56				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.25.56				0.26				
		Add contractor's profit @ 21.5% i.e. on Rs. 25.82				5.55				
		Add labour cess @ 1% i.e. on Rs. 31.37				0.31				
		Labour for	1	Each		<b>31.68</b>				
		Labour for	1	Each		31.68	<b>31.68</b>		31.68	
		Cost for	1	Each			<b>392.34</b>			
		<b>Add 10% for sub mountainous region</b>								3.17
		Labour for	1	Each						<b>34.85</b>
		Cost for	1	Each						<b>395.51</b>

(x)		Making of cement concrete muff of overall size 450mmdia., 60cm long with 1:2:4 cement concrete mixture. The muff is to be made around the steel tubular pole/ GI pipe pole. The outer surface of the muff shall be finished with pure cement and two coats of white snowcem complete in all respect as approved and desired by the Engineer In-Charge at site.										
		Unit :-	1	Each								
<b>I</b>		<b>Materials</b>										
(i)		Cement concrete 1:2:4		Cum.	0.09	4556.00	410.04					
(ii)		White Snowcem		Kg.	0.120	25.00	3.00					
		Total - I					413.04					
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.413.04					4.13					
		Add contractor's profit @ 10% i.e. on Rs. 417.17					41.72					
		Add labour cess @ 1% i.e. on Rs. 458.89					4.59					

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
						463.48	463.48			463.48
<b>II</b>		<b>Labour</b>								
		<b>Taking output</b>	1	Each						
(i)		Lineman (1st Class)	Day	1/12	181.86	15.16				
(ii)		Mazdoor (Skilled)	2	Nos.	Day	1/12	164.69	27.45		
		Total - II				42.61				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.42.61				0.43				
		Add contractor's profit @ 21.5% i.e. on Rs. 43.04				9.25				
		Add labour cess @ 1% i.e. on Rs. 52.29				0.52				
		Labour for	1	Each		52.81				
		Labour for	1	Each		52.81	52.81	52.81		
		Cost for	1	Each			516.29			
		<b>Add 10% for sub mountainous region</b>								5.28
		Labour for	1	Each						58.09
		Cost for	1	Each						521.57

(xi)		Making of cement concrete muff of overall size 450mm dia., 80cm long with 1:2:4 cement concrete mixture. The muff is to be made around the steel tubular pole sufficient to completely flush a MCB distribution board SPN 4way (double door IP54) with hinged water tight cover with locking arrangement having two single pole MCB of required capacity fixed on din bar. The MCB distribution board is to be fixed with the pole by a MS flat clamp of size 20mm x 3mm thick. PVC pipe 40 mm dia. (2 No. x 0.60 m) should be provided for incoming and outgoing cables. The outer surface of the muff shall be finished with pure cement and two coats of white snowcem complete in all respect as approved and desired by the Engineer In-Charge at site.									
		Unit :-	1	Each							
<b>I</b>		<b>Materials</b>									
(i)		Cement concrete 1:2:4		Cum.	0.114	4556.00	519.38				
(ii)		Sheet metal double door S.P. & N. distribution board (dust protected) provided with bus bar, neutral link and din bar, suitable for incorporating MCB's/ RCBO/ RCCB's, 4 way each		Each	1.00	494.81	494.81				

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)		Miniature circuit breaker single pole 6 to 32amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	Each	2.00	105.80	211.60				
(iv)		Heavy gauge PVC conduit pipe 40mm dia. (ISI marked 2mm thick)	Metre	2.00	47.48	94.96				
(v)		25mm thick cement plaster 1:6 in two coats work (CSR Item No. 15.35 Rs.109.22-56.22)	Sq. m	0.91	54.00	49.14				
(vi)		White Snowcem	Kg.	0.120	25.00	3.00				
		Total - I				1372.89				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.1372.89				13.73				
		Add contractor's profit @ 10% i.e. on Rs. 1386.62				138.66				
		Add labour cess @ 1% i.e. on Rs. 1525.28				15.25				
						1540.53	<b>1540.53</b>			<b>1540.53</b>
<b>II</b>		<b>Labour</b>								
		<b>Taking output</b>	1	Each						
(i)		Lineman (1st Class)	Day	1/10	181.86	18.19				
(ii)		Mazdoor (Skilled)	2	Nos.	Day	1/10	164.69			
		Total - II				51.13				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.51.13				0.51				
		Add contractor's profit @ 21.5% i.e. on Rs. 51.64				11.10				
		Add labour cess @ 1% i.e. on Rs. 62.74				0.63				
		Labour for	1	Each		<b>63.37</b>				
		Labour for	1	Each		63.37	<b>63.37</b>		63.37	
		Cost for	1	Each			<b>1603.90</b>			
		<b>Add 10% for sub mountainous region</b>								6.34
		Labour for	1	Each						<b>69.71</b>
		Cost for	1	Each						<b>1610.24</b>