

**Chapter No. 33.19**  
**SHEET METAL IRON CLAD CHANGEOVER SWITCHES:**

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
33.19		Supply and erection of sheet metal iron clad change-over switch on existing surface with G.I. bolts & nuts / rag bolts and nuts etc., according to the size of holes in the body of the switch including connections with suitable size of thimbles and bonding to the existing earth as per PWD General Specifications 2010.								
(i)		Sheet metal iron clad double pole changeover switch 32amp. 415 volts								
		Unit :-	1	Each						
I		<b>Materials</b>								
(i)		Sheet metal iron clad double pole changeover switch 32amp. 415 volts	Each	1.00	916.83	916.83				
(ii)		G.I. bolt & nut/rag bolt & nut etc. 32amp. to 200amp.	Each	4.00	8.00	32.00				
		Total - I				948.83				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.948.83				9.49				
		Add contractor's profit @ 10% i.e. on Rs. 958.32				95.83				
		Add labour cess @ 1% i.e. on Rs. 1054.15				10.54				
						1064.69	1064.69			1064.69
II		<b>Labour</b>								
		<b>Taking output</b>	1	Each						
(i)		Wireman (1st Class)	Day	1/4	164.69	41.17				
(ii)		Mazdoor (Skilled)	Day	1/4	164.69	41.17				
		Total - II				82.34				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.82.34				0.82				
		Add contractor's profit @ 21.5% i.e. on Rs. 83.16				17.88				
		Add labour cess @ 1% i.e. on Rs. 101.04				1.01				
		Labour for	1	Each		102.05				
		Labour for	1	Each		102.05	102.05	102.05		
		Cost for	1	Each			1166.74			
		<b>Add 10% for sub mountainous region</b>								10.21
		Labour for	1	Each						112.26
		Cost for	1	Each						1176.95

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)		Sheet metal iron clad double pole changeover switch 63amp. 415 volts								
		Unit :- 1 Each								
<b>I</b>		<b>Materials</b>								
(i)		Sheet metal iron clad double pole changeover switch 63amp. 415 volts	Each	1.00	2226.26	2226.26				
(ii)		G.I. bolt & nut/rag bolt & nut etc. 32amp. to 200amp.	Each	4.00	8.00	32.00				
		Total - I				2258.26				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.2258.26				22.58				
		Add contractor's profit @ 10% i.e. on Rs. 2280.84				228.08				
		Add labour cess @ 1% i.e. on Rs. 2508.92				25.09				
						2534.01	2534.01			2534.01
<b>II</b>		<b>Labour</b>								
		Taking output 1 Each								
(i)		Wireman (1st Class)	Day	1/4	164.69	41.17				
(ii)		Mazdoor (Skilled)	Day	1/4	164.69	41.17				
		Total - II				82.34				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.82.34				0.82				
		Add contractor's profit @ 21.5% i.e. on Rs. 83.16				17.88				
		Add labour cess @ 1% i.e. on Rs. 101.04				1.01				
		Labour for 1 Each				102.05				
		Labour for 1 Each				102.05	102.05	102.05		
		Cost for 1 Each					2636.06			
		Add 10% for sub mountainous region								10.21
		Labour for 1 Each								112.26
		Cost for 1 Each								2646.27

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)		Sheet metal iron clad double pole changeover switch 100amp. 415 volts								
		Unit :- 1 Each								
I		Materials								
(i)		Sheet metal iron clad double pole changeover switch 100amp. 415 volts	Each	1.00	3976.36	3976.36				
(ii)		G.I. bolt & nut/rag bolt & nut etc. 32amp. to 200amp.	Each	4.00	8.00	32.00				
		Total - I				4008.36				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.4008.36				40.08				
		Add contractor's profit @ 10% i.e. on Rs. 4048.44				404.84				
		Add labour cess @ 1% i.e. on Rs. 4453.28				44.53				
						4497.81	4497.81			4497.81
II		Labour								
		Taking output 1 Each								
(i)		Wireman (1st Class)	Day	1/3	164.69	54.90				
(ii)		Mazdoor (Skilled)	Day	1/3	164.69	54.90				
		Total - II				109.80				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.109.8				1.10				
		Add contractor's profit @ 21.5% i.e. on Rs. 110.9				23.84				
		Add labour cess @ 1% i.e. on Rs. 134.74				1.35				
		Labour for 1 Each				136.09				
		Labour for 1 Each				136.09	136.09		136.09	
		Cost for 1 Each					4633.90			
		Add 10% for sub mountainous region								13.61
		Labour for 1 Each								149.70
		Cost for 1 Each								4647.51

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
(iv)		Sheet metal iron clad double pole changeover switch 200amp. 415 volts								
		Unit :- 1 Each								
I		Materials								
(i)		Sheet metal iron clad double pole changeover switch 200amp. 415 volts	Each	1.00	5540.14	5540.14				
(ii)		G.I. bolt & nut/rag bolt & nut etc. 32amp. to 200amp.	Each	4.00	8.00	32.00				
		Total - I				5572.14				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.5572.14				55.72				
		Add contractor's profit @ 10% i.e. on Rs. 5627.86				562.79				
		Add labour cess @ 1% i.e. on Rs. 6190.65				61.91				
						6252.56	6252.56			6252.56
II		Labour								
		Taking output 1 Each								
(i)		Wireman (1st Class)	Day	1/3	164.69	54.90				
(ii)		Mazdoor (Skilled)	Day	1/3	164.69	54.90				
		Total - II				109.80				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.109.8				1.10				
		Add contractor's profit @ 21.5% i.e. on Rs. 110.9				23.84				
		Add labour cess @ 1% i.e. on Rs. 134.74				1.35				
		Labour for 1 Each				136.09				
		Labour for 1 Each				136.09	136.09		136.09	
		Cost for 1 Each					6388.65			
		Add 10% for sub mountainous region								13.61
		Labour for 1 Each								149.70
		Cost for 1 Each								6402.26

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)		Sheet metal iron clad four pole changeover switch 32amp. 415 volts								
		Unit :- 1 Each								
I		<b>Materials</b>								
(i)		Sheet metal iron clad four pole changeover switch 32amp. 415 volts	Each	1.00	1367.84	1367.84				
(ii)		G.I. bolt & nut/rag bolt & nut etc. 32amp. to 200amp.	Each	4.00	8.00	32.00				
		Total - I				1399.84				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.1399.84				14.00				
		Add contractor's profit @ 10% i.e. on Rs. 1413.84				141.38				
		Add labour cess @ 1% i.e. on Rs. 1555.22				15.55				
						1570.77	1570.77			1570.77
II		<b>Labour</b>								
		Taking output 1 Each								
(i)		Wireman (1st Class)	Day	1/3	164.69	54.35				
(ii)		Mazdoor (Skilled)	Day	1/3	164.69	54.35				
		Total - II				108.70				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.108.7				1.09				
		Add contractor's profit @ 21.5% i.e. on Rs. 109.79				23.60				
		Add labour cess @ 1% i.e. on Rs. 133.39				1.33				
		Labour for 1 Each				134.72				
		Labour for 1 Each				134.72	134.72		134.72	
		Cost for 1 Each					1705.49			
		<b>Add 10% for sub mountainous region</b>								13.47
		Labour for 1 Each								148.19
		Cost for 1 Each								1718.96

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)		Sheet metal iron clad four pole changeover switch 63amp. 415 volts								
		Unit :- 1 Each								
I		<b>Materials</b>								
(i)		Sheet metal iron clad four pole changeover switch 63amp. 415 volts	Each	1.00	3419.89	3419.89				
(ii)		G.I. bolt & nut/rag bolt & nut etc. 32amp. to 200amp.	Each	4.00	8.00	32.00				
		Total - I				3451.89				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.3451.89				34.52				
		Add contractor's profit @ 10% i.e. on Rs. 3486.41				348.64				
		Add labour cess @ 1% i.e. on Rs. 3835.05				38.35				
						3873.40	3873.40			3873.40
II		<b>Labour</b>								
		Taking output 1 Each								
(i)		Wireman (1st Class)	Day	1/3	164.69	54.35				
(ii)		Mazdoor (Skilled)	Day	1/3	164.69	54.35				
		Total - II				108.70				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.108.7				1.09				
		Add contractor's profit @ 21.5% i.e. on Rs. 109.79				23.60				
		Add labour cess @ 1% i.e. on Rs. 133.39				1.33				
		Labour for 1 Each				134.72				
		Labour for 1 Each				134.72	134.72		134.72	
		Cost for 1 Each					4008.12			
		<b>Add 10% for sub mountainous region</b>								13.47
		Labour for 1 Each								148.19
		Cost for 1 Each								4021.59

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
(vii)		Sheet metal iron clad four pole changeover switch 100amp. 415 volts								
		Unit :- 1 Each								
I		Materials								
(i)		Sheet metal iron clad four pole changeover switch 100amp. 415 volts	Each	1.00	6491.71	6491.71				
(ii)		G.I. bolt & nut/rag bolt & nut etc. 32amp. to 200amp.	Each	4.00	8.00	32.00				
		Total - I				6523.71				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.6523.71				65.24				
		Add contractor's profit @ 10% i.e. on Rs. 6588.95				658.90				
		Add labour cess @ 1% i.e. on Rs. 7247.85				72.48				
						7320.33	7320.33			7320.33
II		Labour								
		Taking output	1 Each							
(i)		Wireman (1st Class)	Day	1/3	164.69	54.90				
(ii)		Mazdoor (Skilled)	Day	1/3	164.69	54.90				
		Total - II				109.80				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.109.8				1.10				
		Add contractor's profit @ 21.5% i.e. on Rs. 110.9				23.84				
		Add labour cess @ 1% i.e. on Rs. 134.74				1.35				
		Labour for	1 Each			136.09				
		Labour for	1 Each			136.09	136.09		136.09	
		Cost for	1 Each				7456.42			
		Add 10% for sub mountainous region								13.61
		Labour for	1 Each							149.70
		Cost for	1 Each							7470.03

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)		Sheet metal iron clad four pole changeover switch 200amp. 415 volts								
		Unit :- 1 Each								
I		Materials								
(i)		Sheet metal iron clad four pole changeover switch 200amp. 415 volts	Each	1.00	9020.38	9020.38				
(ii)		G.I. bolt & nut/rag bolt & nut etc. 32amp. to 200amp.	Each	4.00	8.00	32.00				
		Total - I				9052.38				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.9052.38				90.52				
		Add contractor's profit @ 10% i.e. on Rs. 9142.9				914.29				
		Add labour cess @ 1% i.e. on Rs. 10057.19				100.57				
						10157.76	10157.76			10157.76
II		Labour								
		Taking output	1 Each							
(i)		Wireman (1st Class)	Day	1/2	164.69	82.35				
(ii)		Mazdoor (Skilled)	Day	1/2	164.69	82.35				
		Total - II				164.70				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.164.7				1.65				
		Add contractor's profit @ 21.5% i.e. on Rs. 166.35				35.77				
		Add labour cess @ 1% i.e. on Rs. 202.12				2.02				
		Labour for	1 Each			204.14				
		Labour for	1 Each			204.14	204.14		204.14	
		Cost for	1 Each				10361.90			
		Add 10% for sub mountainous region								20.41
		Labour for	1 Each							224.55
		Cost for	1 Each							10382.31



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
(ix)		Sheet metal iron clad four pole changeover switch 320amp. 415 volts								
		Unit :- 1 Each								
I		Materials								
(i)		Sheet metal iron clad four pole changeover switch 320amp. 415 volts	Each	1.00	11682.13	11682.13				
(ii)		G.I. bolt & nut/rag bolt & nut etc. 250amp. to 400amp.	Each	4.00	12.00	48.00				
		Total - I				11730.13				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.11730.13				117.30				
		Add contractor's profit @ 10% i.e. on Rs. 11847.43				1184.74				
		Add labour cess @ 1% i.e. on Rs. 13032.17				130.32				
						13162.49	13162.49			13162.49
II		Labour								
		Taking output	1 Each							
(i)		Wireman (1st Class)	Day	1	164.69	164.69				
(ii)		Mazdoor (Skilled)	Day	1	164.69	164.69				
		Total - II				329.38				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.329.38				3.29				
		Add contractor's profit @ 21.5% i.e. on Rs. 332.67				71.52				
		Add labour cess @ 1% i.e. on Rs. 404.19				4.04				
		Labour for	1 Each			408.23				
		Labour for	1 Each			408.23	408.23		408.23	
		Cost for	1 Each				13570.72			
		Add 10% for sub mountainous region								40.82
		Labour for	1 Each							449.05
		Cost for	1 Each							13611.54

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
(x)		Sheet metal iron clad four pole changeover switch 400amp. 415 volts								
		Unit :- 1 Each								
I		Materials								
(i)		Sheet metal iron clad four pole changeover switch 400amp. 415 volts	Each	1.00	15009.31	15009.31				
(ii)		G.I. bolt & nut/rag bolt & nut etc. 250amp. to 400amp.	Each	4.00	12.00	48.00				
		Total - I				15057.31				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.15057.31				150.57				
		Add contractor's profit @ 10% i.e. on Rs. 15207.88				1520.79				
		Add labour cess @ 1% i.e. on Rs. 16728.67				167.29				
						16895.96	16895.96			16895.96
II		Labour								
		Taking output	1 Each							
(i)		Wireman (1st Class)	Day	1	164.69	164.69				
(ii)		Mazdoor (Skilled)	Day	1	164.69	164.69				
		Total - II				329.38				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.329.38				3.29				
		Add contractor's profit @ 21.5% i.e. on Rs. 332.67				71.52				
		Add labour cess @ 1% i.e. on Rs. 404.19				4.04				
		Labour for	1 Each			408.23				
		Labour for	1 Each			408.23	408.23		408.23	
		Cost for	1 Each				17304.19			
		Add 10% for sub mountainous region								40.82
		Labour for	1 Each							449.05
		Cost for	1 Each							17345.01