

**Chapter No. 33.24**  
**AIR CIRCUIT BREAKERS:**

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
33.24		Supply & erection of air circuit-breaker on the existing industrial panel, including bonding to the existing earth with suitable glands and making necessary connections with suitable size of thimbles as required by the Engineer-in-Charge at site and as per PWD General Specifications (Make: L&T-U Power, ABB-E Max, Seimens-3WL, Schneider-MVS ):-								
(i)		Air circuit-breaker electrically operated (electrical draw-out type), 4 pole, 800amp. 415 volts complete.								
		Unit :-	1	Each						
<b>I</b>		<b>Materials</b>								
(i)		Air circuit-breaker electrically operated (electrical draw-out type), 4 pole, 800amp. 415 volts complete.	Each	1.00	151970.00	151970.00				
		Total - I				151970.00				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.151970				1519.70				
		Add contractor's profit @ 10% i.e. on Rs. 153489.7				15348.97				
		Add labour cess @ 1% i.e. on Rs. 168838.67				1688.39				
						170527.06	170527.06			170527.06
<b>II</b>		<b>Labour</b>								
		<b>Taking output</b>	1	Each						
(i)		Wireman (1st Class)	Day	3 1/2	164.69	576.42				
(iii)		Mazdoor (Skilled)	Day	3 1/2	164.69	576.42				
		Total - II				1152.84				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.1152.84				11.53				
		Add contractor's profit @ 21.5% i.e. on Rs. 1164.37				250.34				
		Add labour cess @ 1% i.e. on Rs. 1414.71				14.15				
		Labour for	1	Each		1428.86				
		Labour for	1	Each		1428.86	1428.86		1428.86	
		Cost for	1	Each			171955.92			
		<b>Add 10% for sub mountainous region</b>								142.89
		Labour for	1	Each						1571.75
		Cost for	1	Each						172098.81

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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
(ii)		<b>Air circuit-breaker electrically operated (electrical draw-out type), 4 pole, 1000amp. 415 volts complete.</b>								
		Unit :-	1	Each						
<b>I</b>		<b>Materials</b>								
(i)		Air circuit-breaker electrically operated (electrical draw-out type), 4 pole, 1000amp. 415 volts complete.								
			Each	1.00	156520.00	156520.00				
		Total - I				156520.00				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.156520				1565.20				
		Add contractor's profit @ 10% i.e. on Rs. 158085.2				15808.52				
		Add labour cess @ 1% i.e. on Rs. 173893.72				1738.94				
						175632.66	175632.66			175632.66
<b>II</b>		<b>Labour</b>								
		<b>Taking output</b>	1	Each						
(i)		Wireman (1st Class)			Day	4	164.69	658.76		
(iii)		Mazdoor (Skilled)			Day	4	164.69	658.76		
		Total - II					1317.52			
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.1317.52					13.18			
		Add contractor's profit @ 21.5% i.e. on Rs. 1330.7					286.10			
		Add labour cess @ 1% i.e. on Rs. 1616.8					16.17			
		Labour for	1	Each			1632.97			
		Labour for	1	Each			1632.97	1632.97		
		Cost for	1	Each			177265.63			
		<b>Add 10% for sub mountainous region</b>								163.30
										1796.27
		Labour for	1	Each						
		Cost for	1	Each						177428.93

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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
(iii)		<b>Air circuit-breaker electrically operated (electrical draw-out type), 4 pole, 1250amp. 415 volts complete.</b>								
		Unit :-	1	Each						
<b>I</b>		<b>Materials</b>								
(i)		Air circuit-breaker electrically operated (electrical draw-out type), 4 pole, 1250amp. 415 volts complete.	Each	1.00	167440.00	167440.00				
		Total - I				167440.00				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.167440				1674.40				
		Add contractor's profit @ 10% i.e. on Rs. 169114.4				16911.44				
		Add labour cess @ 1% i.e. on Rs. 186025.84				1860.26				
						187886.10	<b>187886.10</b>			<b>187886.10</b>
<b>II</b>		<b>Labour</b>								
		<b>Taking output</b>	1	Each						
(i)		Wireman (1st Class)	Day	4 1/2	164.69	741.11				
(iii)		Mazdoor (Skilled)	Day	4 1/2	164.69	741.11				
		Total - II				1482.22				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.1482.22				14.82				
		Add contractor's profit @ 21.5% i.e. on Rs. 1497.04				321.86				
		Add labour cess @ 1% i.e. on Rs. 1818.9				18.19				
		Labour for	1	Each		<b>1837.09</b>				
		Labour for	1	Each		1837.09	<b>1837.09</b>		1837.09	
		Cost for	1	Each			<b>189723.19</b>			
		<b>Add 10% for sub mountainous region</b>								183.71
		Labour for	1	Each						<b>2020.80</b>
		Cost for	1	Each						<b>189906.90</b>

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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
(iv)		<b>Air circuit-breaker electrically operated (electrical draw-out type), 4 pole, 1600amp. 415 volts complete.</b>								
		Unit :-	1	Each						
<b>I</b>		<b>Materials</b>								
(i)		Air circuit-breaker electrically operated (electrical draw-out type), 4 pole, 1600amp. 415 volts complete.								
			Each	1.00	187460.00	187460.00				
		Total - I				187460.00				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.187460				1874.60				
		Add contractor's profit @ 10% i.e. on Rs. 189334.6				18933.46				
		Add labour cess @ 1% i.e. on Rs. 208268.06				2082.68				
						210350.74	<b>210350.74</b>			<b>210350.74</b>
<b>II</b>		<b>Labour</b>								
		<b>Taking output</b>	1	Each						
(i)		Wireman (1st Class)			Day	5	164.69	823.45		
(iii)		Mazdoor (Skilled)			Day	5	164.69	823.45		
		Total - II					1646.90			
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.1646.9					16.47			
		Add contractor's profit @ 21.5% i.e. on Rs. 1663.37					357.62			
		Add labour cess @ 1% i.e. on Rs. 2020.99					20.21			
		Labour for	1	Each			<b>2041.20</b>			
		Labour for	1	Each			2041.20	<b>2041.20</b>	2041.20	
		Cost for	1	Each				<b>212391.94</b>		
		<b>Add 10% for sub mountainous region</b>								204.12
										<b>2245.32</b>
		Labour for	1	Each						
		Cost for	1	Each						<b>212596.06</b>

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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
(v)		<b>Air circuit-breaker electrically operated (electrical draw-out type), 4 pole, 2000amp. 415 volts complete.</b>								
		Unit :-	1	Each						
<b>I</b>		<b>Materials</b>								
(i)		Air circuit-breaker electrically operated (electrical draw-out type), 4 pole, 2000amp. 415 volts complete.								
			Each	1.00	237510.00	237510.00				
		Total - I				237510.00				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.237510				2375.10				
		Add contractor's profit @ 10% i.e. on Rs. 239885.1				23988.51				
		Add labour cess @ 1% i.e. on Rs. 263873.61				2638.74				
						266512.35	266512.35			266512.35
<b>II</b>		<b>Labour</b>								
		<b>Taking output</b>	1	Each						
(i)		Wireman (1st Class)			Day	5 1/2	164.69	905.80		
(iii)		Mazdoor (Skilled)			Day	5 1/2	164.69	905.80		
		Total - II					1811.60			
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.1811.6					18.12			
		Add contractor's profit @ 21.5% i.e. on Rs. 1829.72					393.39			
		Add labour cess @ 1% i.e. on Rs. 2223.11					22.23			
		Labour for	1	Each			2245.34			
		Labour for	1	Each			2245.34	2245.34	2245.34	
		Cost for	1	Each			268757.69			
		<b>Add 10% for sub mountainous region</b>								224.53
										2469.87
		Labour for	1	Each						268982.22
		Cost for	1	Each						

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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
(vii)		Air circuit-breaker electrically operated (electrical draw-out type), 4 pole, 3200amp. 415 volts complete.								
		Unit :-	1	Each						
I		<b>Materials</b>								
(i)		Air circuit-breaker electrically operated (electrical draw-out type), 4 pole, 3200amp. 415 volts complete.	Each	1.00	333970.00	333970.00				
		Total - I				333970.00				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.333970				3339.70				
		Add contractor's profit @ 10% i.e. on Rs. 337309.7				33730.97				
		Add labour cess @ 1% i.e. on Rs. 371040.67				3710.41				
						374751.08	374751.08			374751.08
II		<b>Labour</b>								
		<b>Taking output</b>	1	Each						
(i)		Wireman (1st Class)	Day	6 1/2	164.69	1070.49				
(iii)		Mazdoor (Skilled)	Day	6 1/2	164.69	1070.49				
		Total - II				2140.98				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.2140.98				21.41				
		Add contractor's profit @ 21.5% i.e. on Rs. 2162.39				464.91				
		Add labour cess @ 1% i.e. on Rs. 2627.3				26.27				
		Labour for	1	Each		2653.57				
		Labour for	1	Each		2653.57	2653.57	2653.57		
		Cost for	1	Each			377404.65			
		<b>Add 10% for sub mountainous region</b>								265.36
		Labour for	1	Each						2918.93
		Cost for	1	Each						377670.01