



DE.FM.036 Materials List

Project	J006678 TP Standard 220 kV SC with bypass
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Title

17/03/2026

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Revision : 0

#N/A

	Description	Manufacturer	Type	Comment	Qty	Supplier	P.O.	220kV Bay A	220kV Bay B	220kV Bay C	220kV Bay D	220kV Bay E	220kV Bay F	220kV Bay G	220kV Bus System	33kV Bay A	33kV Bay B	Control Building	Fence
1	220kV Disconnecting Circuit Breaker				4			1		1	1			1					
2	220kV DCB Stand				4			1		1	1			1					
3	220kV Disconnecting Circuit Breaker with 3P Earth Switch				2							1	1						
4	220kV DCB Stand				2							1	1						
5	220kV 3P Disconnecter with 2x3P Earth Switch				2			1		1									
6	220kV 3P Disconnecter with 3P Earth Switch				2				2										
7	220kV DIS/ES Stand				4			1	2	1									
8	220kV SF6 Circuit Breaker				1				1										
9	220kV CB Stand				1				1										
10	220kV Current Transformer				6			1	1	1	1	1		1					
11	220kV CT Stand				6			1	1	1	1	1		1					
12	220kV 3P Earth Switch				4						1	1	1	1					
13	220kV ES Stand				4						1	1	1	1					
14	220kV Capacitive Voltage Transformer				2							1	1						
15	220kV CVT Stand				2							1	1						
16	220kV 3P Post Insulator				2			1		1									
17	220kV 3P PI Stand				2			1		1									
18	220kV 3P Surge Arrester				2						1						1		
19	220/33kV Transformer, 150-200MVA, YNd3				2						1						1		
20	220kV Neutral Earthing Resistor				2						1						1		
21	220kV Neutral Current Transformer				2						1						1		
22	33/0.415kV Earthing Transformer, 200kVA, ZNyn11				2						1						1		
23	33kV Neutral Earthing Resistor				2						1						1		
24	33kV Neutral Current Transformer				2						1						1		
25	33kV 3P Surge Arrester				2						1						1		
26	220kV DCB+CT Foundation				4			1		1	1				1				
27	220kV DIS+ES Foundation				4			1	2	1									
28	220kV CB+CT Foundation				1				1										
29	220kV CT+3P Post Insulator Foundation				1							1							
30	220kV DCB+ES Foundation				2							1	1						
31	220kV ES Foundation				2						1						1		
32	220kV 3P Post Insulator Foundation				4			1		1	1				1				
33	220kV ES+CVT Foundation				2							1	1						
34	220kV CVT Foundation				2			1		1									
35	3P Bus Support Foundation				8										8				
36	220kV 3P Bus Support Insulator				8										8				
37	Bus Support Assembly, Sliding, 200mm OD Bus Tube				24										24				
38	Underhung Composite Post Insulator				18										18				
39	Underhung PI Support Assembly, 200mm OD Bus Tube				18										18				
40	Bolted - Conductor Support on PI - Twin Flat Cicada				6										6				
41	Bolted - Conductor Support on PI - Quad Flat Cicada				12										12				
42	Bolted - Midspan Spacer - Twin Flat Cicada				AR										AR				
43	Bolted - Midspan Spacer - Quad Flat Cicada				AR										AR				
44	Bolted - Tee Connector - Quad Flat Cicada				AR										AR				
45	Expansion Joint Assembly - Fixed/Fixed				12										12				
46	Terminal Palm Busbar End, 135 degree				12										12				
47	Corona Ring Assembly, φ665				12										12				
48	Compression Terminal Palm - Single Cicada				AR										AR				
49	Compression Terminal Palm - Quad Cicada				AR										AR				
50	Flag Terminal - Inline 8 x 18mm at 50mm Centres				12										12				
51	Compression - Busbar Tube Keel				18										18				
52	Compression - Quick Disconnect System - Single Cicada Connector				12										12				
53	Compression - Quick Disconnect System - Twin Cicada Connector				24										24				
54	Cicada conductor (Jumper)				AR										AR				
55	Cicada conductor (Damping)				AR										AR				
56	200mm OD x 6mm WT Tubular Bus Tube, Grage 6101 T6 (Span length < 12m)				48m										47.4m				
57	200mm OD x 6mm WT Tubular Bus Tube, Grage 6061 T6 (Span length > 12m)				164m										163.8m				



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58	Gantry A Frame - 13.6m				3			1	1	1									
59	Gantry Foundation				3			1	1	1									
60	Lighting & Lightning Pole - 19.6m				3						1	1		1					
61	Pole Foundation				3						1	1		1					
62	Flood light - Pole mounted				12						4	4		4					
63	Lightning Rod				9			2	2	2	1	1		1					
64	33kV 3P Post Insulator including cable stand				2											1	1		
65	33kV 3P Earth Switch				4											2	2		
66	33kV ES Stand				4											2	2		
67	33kV Disconnecting Circuit Breaker				2											1	1		
68	33kV DCB Stand				2											1	1		
69	33kV Current Transformer				2											1	1		
70	33kV CT Stand				2											1	1		
71	33kV Voltage Transformer				2											1	1		
72	33kV VT Stand				2											1	1		
73	[Not used, intentionally left blank]				0														
74	[Not used, intentionally left blank]				0														
75	33kV ES Foundation				4											2	2		
76	33kV DCB Foundation				2											1	1		
77	33kV CT Foundation				2											1	1		
78	33kV Cable Stand Foundation				2											1	1		
79	ODJB including two Merging units				10			1	2	1	1	1	1	1		1	1		
80	JB Foundation				10			1	2	1	1	1	1	1		1	1		
81	Control Pull Pit				12			1	2	1	1	1	1	1		1	1	2	
82	100mm ID HDPE Ducts				AR														
83	Substation Electric Fence				455m														454.1m
84	Substation Fence				173m														173m
85	Stock Fence				460m														459.2m