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### PROJECT INFORMATION

**SCHEME NAME:** Establish 400/132kV TRFR at Paulputs Substation (Phase 1)  
**PROJECT NAME:** Establish 400/132kV TRFR at Paulputs Substation (Phase 1)  
**SUBSTATION NAME:** Aggeneis  
**OPERATING UNIT:** Western Grid  
**PROJECT NUMBER:** ETPAUL1.D.NC.INT.TE.SU  
**REVISION:** 1  
**REVISION CONTROL:** 1 FIRST ISSUE

### RELATED/SUPPORTING DOCUMENTS

**STATION ELECTRIC DIAGRAM:** Agg21P13-SE-D6

	Designation	Name	Signature	Date
<b>Compiled by</b>	PROJECT ENGINEER	Nomfundo Gono		2023/09/14
<b>Approved by</b>	PTM&C PLANNING & PROJECT SUPPORT MANAGER	Mario Petersen		
<b>Received by</b>	PROJECT MANAGER	Sugan Naidoo		

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**1 BILL OF MATERIAL - NEW CABLE REQUIREMENTS**

**1,1 400kV Paulputs**

ITEM	FROM: EQUIPMENT	TO: DESTINATION	CABLE SPECIFICATION	QTY	LENGTH	COMMENTS
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**1,2 400kV FEEDER 2 - Paulputs**

ITEM	FROM: EQUIPMENT	TO: DESTINATION	CABLE SPECIFICATION	QTY	LENGTH	COMMENTS
1	RED PHASE CT	JUNCTION BOX (6JB-9100)	BVX12DCV	1		
2	WHITE PHASE CT	JUNCTION BOX (6JB-9100)	BVX12DCV	1		
3	BLUE PHASE CT	JUNCTION BOX (6JB-9100)	BVX12DCV	1		
4	BUSBAR 1B ISOLATOR	JUNCTION BOX (6JB-9100)	BVX12DCV	1		
5	BUSBAR 2B ISOLATOR	JUNCTION BOX (6JB-9100)	BVX12DCV	1		
6	LINE ISOLATOR	JUNCTION BOX (6JB-9100)	BVX7DCV	1		
7	BREAKER E/S BB 1B SIDE	JUNCTION BOX (6JB-9100)	BVX7DCV	1		
8	BREAKER E/S LINE SIDE	JUNCTION BOX (6JB-9100)	BVX7DCV	1		
9	LINE E/S	JUNCTION BOX (6JB-9100)	BVX7DCV	1		
10	CIRCUIT BREAKER	JUNCTION BOX (6JB-9100)	BVX37DCV	1		
11		JUNCTION BOX (6JB-9100)	BVX2ECV	1		
12	BUS ZONE PANEL	JUNCTION BOX (6JB-9100)	BVX7DCV	1		
13		JUNCTION BOX (6JB-9100)	BVX4DCV	1		
14	220V DC BOARD	JUNCTION BOX (6JB-9100)	BVX4HCV	1		
15	RELAY PANEL	JUNCTION BOX (6JB-9100)	BVX7ECV	1		
16		JUNCTION BOX (6JB-9100)	BVX7ECV	1		
17		JUNCTION BOX (6JB-9100)	BVX12DCV	1		
18		JUNCTION BOX (6JB-9100)	BVX4DCV	1		
19		JUNCTION BOX (6JB-9100)	12 CORE 50/125µm	1		
20		JUNCTION BOX (6JB-9100)	12 CORE 50/125µm	1		
21	PLUG BOX	JUNCTION BOX (6JB-9100)	BVX2ECV	1		
22	BUSBAR 1B VTJB (M)	RELAY PANEL	BVX4ECV	1		
23	BUSBAR 2B VTJB (M)	RELAY PANEL	BVX4ECV	1		
24	BUSBAR 1B VTJB (M)	RELAY PANEL	BVX4ECV	1		
25	BUSBAR 2B VTJB (M)	RELAY PANEL	BVX4ECV	1		
26	220V DC BOARD MAIN 1	RELAY PANEL	BVX2ECV	1		
27	230V AC BOARD	RELAY PANEL	BVX2ECV	1		
28	FROM ADJACENT BAY RP (E/L)	RELAY PANEL	BVX2ECV	1		
29	TO ADJACENT BAY RP (E/L)	RELAY PANEL	BVX2ECV	1		
30	BUS ZONE PANEL	RELAY PANEL	BVX4DCV	2		
31	FSP 1	RELAY PANEL	12 CORE 50/125µm M/M HDD FIBRE	1		
32	BUSBAR 1B VTJB (BU)	RELAY PANEL	BVX4ECV	1		
33	BUSBAR 2B VTJB (BU)	RELAY PANEL	BVX4ECV	1		
34	110V DC BOARD MAIN 2	RELAY PANEL	BVX2ECV	1		
35	BUS ZONE PANEL	RELAY PANEL	BVX7DCV	1		
36	IDF	RELAY PANEL	TPH10AX	1		
37	FSP 2	RELAY PANEL	12 CORE 50/125µm M/M HDD FIBRE	1		

**69:H10 TELECONTROL**

**D400 Panel**

ITEM	FROM: EQUIPMENT	TO: DESTINATION	CABLE SPECIFICATION	QTY	LENGTH	COMMENTS
1						
5	D400 Panel	FIBRE SWITCHING PANEL 1-2	12 CORE 50/125µm	1		
	D400 Panel	HMI 1	12 CORE 50/125µm	1		
	D400 Panel	IDF	TPH10AX	1		
1,36	D400 Panel	D400	X.21	1		

**4 FIBRE SWITCHING PANEL 1 - 2 (FSP 1-2)**

ITEM	FROM: EQUIPMENT	TO: DESTINATION	CABLE SPECIFICATION	QTY	LENGTH	COMMENTS
5						
2						
1	FSP 1-2	FSP 2-2	12 CORE 50/125µm M/M HDD FIBRE	1		
2	FSP 1-2	FSP 1-1	12 CORE 50/125µm M/M HDD FIBRE	1		

**3 FIBRE SWITCHING PANEL 2 - 2 (FSP 2-2)**

ITEM	FROM: EQUIPMENT	TO: DESTINATION	CABLE SPECIFICATION	QTY	LENGTH	COMMENTS
4						
5						
6						
11	FSP 2-2	FSP 2-1	12 CORE 50/125µm	1		

**DECOMMISSION ALL RELATED CABLES**