

Network Engineering & Design (Primary Plant)

Private Bag X1, Beacon Bay, East London 5205

Sunilaws Office Park, c/o Bonza Bay Road & Quenera Drive, Beacon Bay 5241

Phone: (043) 7032052

Fax:(043) 7032092



Version 1.272

Project Information

Project Name: **Good Hope Textile Substation**
Project Number / F10: **WEF116 (C.DS00074)**
Document Prepared by: **Marc Gallant**
Type of BOM: **FINAL BOM Rev 2**

Rev / Date Control

Date Issued: **30-Jul-21**
Rev No. **2**

Project Description

- New Substation
- Substation extensions
- Refurbishment
- Decommission only

Control / Selection

Name: M. Gallant Signature: 
Name: R. Reddy Signature: 
R. Reddy, Pr/Eng
Asset Design Manager
Eastern Cape Operating Unit

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 DATE PREP : 30-Jul-2021
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AUTHORISED BY : 
 R. Reddy, Pr/Eng
 Asset Design Manager
 Eastern Cape Operating Unit

FINAL BOM Rev 2

GOOD HOPE TEXTILE SUBSTATION

MAIN EQUIPMENT

QTY	DESCRIPTION					DT referance			SAP	ENC	BOM REVISIONS	
	kV	Equip.	Description	mm/kV	Stem ø	HyperLink	O/L No	W/D No			Rev No.	Notes
Isolators on Buyers Guide												
7	66	Isolator	No E/SW	1600 A	20 kA	31 mm/kV	Pad	D-DT-6152		0642554	0	To be ordered on LLT BOM
Current Trfr. on Buyers Guide												
	kV	Equip.	A / kA	Cores								
3	66	Current Trfr.	1600 / 20	2 P classX; 2M class 0.2; 2B 1/500		31 mm/kV	26.0 ø	D-DT-6198		0180035	0	To be ordered on LLT BOM
Breakers on Buyers Guide												
	kV			A	kA							
1	132	Breaker (1P)		3150 A	40.0 kA	31 mm/kV	8 Hole pad	D-DT-6250		0642978	0	To be ordered on LLT BOM

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AUTHORISED BY : 
 A. Roobey / Eng
 Asset Design Manager
 Eastern Cape Operating Unit

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CLAMP AND STRAIN ASS. SCHEDULE

QTY	DESCRIPTION				MASS/UNIT		CIP	Drawing	SAP	ENC	BOM REVISIONS	
	Type	Description	Degrees	Size Ø in mm	kg/Clamp	Total-kg					HyperLink	Rev No.
Aluminium Conductor Clamps												
6	EUT-C (UT3)	CLAMP, T R12-19mm- T22-28mm (Bolted-Bolted)	0°	12-19 to 22-29	1.7	10.2		D-DT-6099	0401746		0	
21	EX-B (K-2)	CLAMP, CROSS 26.5mm - 26mm (Bolted-Bolted)	0°	26,5 to 26	2.6	54.6		D-DT-6002	0401584		0	
54	ETC-C (TC-3)	CLAMP, T/COMP 26.5mm - 26.5mm 0DG (Bolted-Compression)	0°	26,5 to 26,5	1.9	102.6		D-DT-6010	0401754		0	
6	EXC-B (KC-2)	CLAMP, B/COMP 38mm - 26.5mm 0DG (Bolted-Compression)	0°	38 to 26,5	2.6	15.6		D-DT-6006	0401766		0	
12	EXC-S	CLAMP, B/COMP 60mm - 26.5mm 0DG (Bolted-Compression)	45°	60 to 26,5				D-DT-6006	0662854		0	
41	EPC-A (SPC-1)	CLAMP, B/COMP 26.5mm PALM 0DG (Bolted-Compression)	0°	26,5 to(50x50)	1.0	41.0		D-DT-6018	0401580		0	
7	EPC-B	CLAMP, B/COMP 26.5mm PALM 45DG (Bolted-Compression)	45°	26,5 to(Blank)	1.0	7.0		D-DT-6018	0400420		0	
TOTAL MASS OF CLAMPS AS DETAILED ABOVE:					231.0 kg							
String Assemblies												
Enumerative String Assembly [Details of above]												
Description												
3	Clamp Pistol 3B 5mm – 16mm D7022							D-DT-7022	0401307		0	
6	Clamp Pistol 3B 18mm – 30mm D7022							D-DT-7022	0243440		0	
3	Long Rod 66 kV Insulator 120 kN B/S 31C							D-DT-7029	0167609		0	
3	D-shackle							D-DT-3010	0163400		0	
3	Ball-eye oval 16mm							D-DT-7008	0010258		0	
3	Socket-Tongue 120kN							D-DT-6061	0010270		0	

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CONDUCTOR & EARTHING SCHEDULE

QTY	DESCRIPTION	Gen. Info	Drawings	CIP	SAP	ENC	BOM REVISIONS	
Conductor			HyperLink				Rev No.	Notes
374.85	Metres Centipede Conductor 37/3 78mm AL	26.5mm Ø	D-DT-3136		0403041		0	
18	Metres Oak Conductor 14.16mm AL	14.16mm Ø	D-DT-3136		0403107		0	
Earthing		Gen. Info	See standard D-DT5085					
95	kg Flat Copper Bar	50 x 3mm	70 m	D-DT-6045		0400772	0	
42	Ball joint,single earth assembly	20kA		D-DT-6081		0206118	0	