

	<p style="text-align: center;"><b>Scope of Work</b></p>	<p style="text-align: center;"><b>Matimba Power Station</b></p>
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## **1. Introduction**

This document describes the detail of the applicable requirements, scope of work and specifications. Eskom, Matimba Power Station Management has decided to outsource the supply and delivery of Electrical Cables Scope of Work to an experienced, well-established, and qualified Service Provider.

## **2. Supporting Clauses**

### **2.1 Scope**

This document sets out the detailed User Scope of Work requirements necessary for the supply and delivery of Cables for Matimba Maintenance Services, as and when required.

#### **2.1.1 Purpose**

The purpose of this document is to define a User Scope of Work requirement based on which a supply contract will be established between the Employer and the supplier.

Matimba Power Station is expected to meet targets and KPIs (EAF>85%, PCLF<8% and UCLF<5%) and the supplied material must support this requirement.

It is therefore imperative that the successful and suitably qualified supplier aligns their company fully to these specified requirements of scope of work.

#### **2.1.2 Applicability**

This document shall apply to Matimba Power Station.

#### **2.1.3 Effective date**

The effective date of this document is as per the date and signature of the authorizer, as indicated on the cover page of this document.

## **2.2 Normative/Informative References**

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

Prospective suppliers are responsible for obtaining the latest copies of South African Standards (SANS) and international standard referred to in this document. Copies of the latest revision of Eskom document will be supplied by the purchaser and will form part of the enquiry documentation.

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### 2.2.1 Normative

- [1] ISO 9001 Quality Management Systems.
- [2] 32 – 1034: Procurement and Supply Chain Management Procedure
- [3] 32- Preferential Procurement Policy Framework Act 5 of 2000
- [4] 240-56227443 - Generation Requirements for Control and Power Cables for Power Stations Standard

### 2.2.2 Informative

- [1]. 240-62072907: Eskom Delegation of Authority Policy.
- [2]. 240-165040111: Supplier Terms Policy
- [3]. 32-1033: Procurement and Supply chain Management Policy
- [4]. 240-141007195: Electronic Signature usage Policy
- [5]. 240-156280553: Procedure for signing documentation electronically using the Eskom electronic signing system.

### 2.3 Definitions

- 2.3.1. Ad hoc: A solution designed for a specific problem or task, non-generalizable, and not intended to be able to be adapted to other purposes.
- 2.3.2. *Contractor*: Partnership agreements and service provider contracted for supplying specific service/goods to Eskom Generation Matimba Power Station.
- 2.3.3. Controlled Disclosure: Controlled disclosure to external parties (either enforced by law, or discretionary).
- 2.3.4. Employer: Eskom or Eskom Generation, Matimba Power Station.
- 2.3.5. Parties: The Employer and the Contractor.
- 2.3.6. Supply Manager: The Employer's representative in regard with the supply contract agreement.
- 2.3.7. Task Order: The Service Manager's instruction to perform a task. SAP PM orders will also be used as task orders.

### 2.4 Abbreviations

Abbreviation	Description
CFT	Cross Functional Team
NEC3	New Engineering Contract
NECSC	Supply Contract Document

**CONTROLLED DISCLOSURE**

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OEM	Original Equipment Manufacturer.
PCM	Process Control Manual.
PDF	Portable Document Format.
QCP	Quality Control Plan.
SAP	Systems, Applications Products.
SME	Subject Matter Expert
SoW	Scope of Work
TET	Technical Evaluation Team
URS	User Requirement Specification.

## **2.5 Roles and Responsibilities**

### **2.5.1 Supply Manager**

1. Co-ordinating and manage contract budget and expenses.
2. Ensures that the service provider operates within the budget.
3. Communicate technical interface between Eskom and the service provider.
4. Review, verify and approve receipt of services or deliverables from the goods supplier.
5. Manages and maintains records and correspondence between the employer and service provider.
6. Ensures that the service provider complies with the terms and conditions of the contract.
7. Keeps the records of the contract for history and audit purposes.

### **2.5.2 Contractor**

1. Supply spares to the *Employer* in accordance with Matimba Power Station procurement process as per spares SoW.
2. Ensures that quality of spares delivered in Process for Monitoring in accordance with the Scope of Work as stipulated within Matimba Power Station spares SoW.
3. Ensures that all spares are accompanied by their related technical specification or datasheet as per the SoW.

## **2.6 Process of Monitoring**

On delivery of spares to Matimba Power station main stores, items will be subjected to quality control (QC) by the End User to ensure that description of delivered items complies with that of the order.

**CONTROLLED DISCLOSURE**

## **2.7 Related/Supporting Documents**

[1]. NEC 3 Supply Contract.

## **3. Document Content**

### **3.1 General**

#### **3.1.1 Adherence to Eskom General Policies & Standards**

The Supplier shall ensure that their Employees delivering spares to site comply with Eskom's policies and site regulations and Eskom's Life Saving Rules.

#### **3.1.2 Quality Standard**

The Supplier shall ensure that the quality of spares delivered to Matimba is as per the ISO 9001 Standard to support Matimba's objective of improving performance.

#### **3.1.3 Document Control**

All contractual communication between the *Employer* and *Supplier* shall be in written format accompanied by an official letterhead and signed by the authorised *Parties*.

All attached documentation shall be in the format of Microsoft Word/ Excel and/ or Power Point.

All contractual communication letterheads and attached documentation shall be electronically mailed as per PDF format.

#### **3.1.4 Contractual Meetings**

a) ADHOC Meetings can be scheduled and agreed upon.

#### **3.1.5 Correspondence**

All verbal and non – verbal communication between the *Employer* and *Supplier* shall be communicated in an electronic format which can be read or copied.

#### **3.1.6 Task Order**

The *Contractor* shall by no means carry out any maintenance work in terms of the Scope of Work Information, without the approval of the *Employer*.

The *Contractor* shall by no means carry out any maintenance work in terms of the Scope of Work Information, without the approval an official SAP Task Order Number being supplied by the *Employer* to the *Contractor*

**CONTROLLED DISCLOSURE**

### 3.2 Scope of Work Information

All cables must strictly comply to the following standards, as a minimum:

- 240-56227443 – Generation Requirements for Control and Power Cables for Power Stations Standard.
- All SANS standards mentioned in the 240-56227443 for respective cables.
- All cables will be stocked as and when required.

**Table 1: List of Electrical Cable Spares**

Supply and Delivery of Electrical Cables for Matimba Power Station				
Item no	Material	Purchase Order Text	Unit of Measure	Est.Qty 5Yrs
1	145012	CABLE, ELECTRICAL: CONDUCTOR SIZE: (35 X 3)/(10 X 3) MM; TYPE: PANZERFLEX TRAILING; CONDUCTOR: CU TINNED STRANDED FLEXIBLE; COVERING: NEOPRENE; RATING: 11 KV; CONDUCTOR INSULATION: CR BLACK NEOPRENE RUBBER; FOR COAL STACKER, 3X(25+2)X10 + 1 X 16, 6/10 KV, VOLT 6/10 KV, 25 + 2 AMP, 1 X 16, AS EARTH CONDUCTOR, COATED WITH SEMI-CONDUCTIVE COATED RUBBER AND LAID TOGETHER WITH PHASE AND SIGNALLING CONDUCTORS, OUTER SHEARTH, COLOUR: RED	M	2000
2	144974	CABLE, ELECTRICAL: CONDUCTOR SIZE: 10 MM <sup>2</sup> ; ARMOR: PVC; TYPE: DIRECT BURIAL; CONDUCTOR: 4 CORE, CU; COVERING: PVC; RATING: 500 V TO 1 KV; CONDUCTOR INSULATION: PVC	M	500
3	145285	CABLE, ELECTRICAL: CONDUCTOR SIZE: 10 MM <sup>2</sup> ; TYPE: TRAILING; CONDUCTOR: 4 CORE, CU MULTISTRAND; COVERING: RUBBER TOUGH; CONDUCTOR INSULATION: RUBBER VULCANIZED; REFERENCE NO: H07RNF; HO7RNF; NEOPRENE	M	750
4	630105	CABLE, ELECTRICAL: VOLTAGE: 1000 VAC; CORE QUANTITY: 1; CONDUCTOR MATERIAL: CU/STL WOVEN; CONDUCTOR SIZE: 95 MM <sup>2</sup> ; ARMOR: STL; DESIGN TYPE: ANTI THEFT; TYPE: LIGHTNING	M	10000

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		PROTECTION; CONDUCTOR INSULATION: PLASTIC		
5	14476	CABLE, ELECTRICAL: CONDUCTOR SIZE: 16 MM2; ARMOR: STL WIRE; CONDUCTOR: 4 CORE, CU STRANDED; COVERING: PVC; RATING: 1 KV; CONDUCTOR INSULATION: PVC; SUPPL P/N: BVX4HCV; REFERENCE NO: BVX4HCV; ARMoured, PVC OUTER SHEATH, ENDS MUST BE PROTECTED BY PLASTIC CAP TO PREVENT INGRESS OF MOISTURE	M	1000
6	144975	CABLE, ELECTRICAL: CONDUCTOR SIZE: 16 MM2; TYPE: TRAILING; CONDUCTOR: 4 CORE, CU; COVERING: PVC; CONDUCTOR INSULATION: PVC; REFERENCE NO: BRR4HCN; RUBBER, CORE COLOURE: BLUE, BLACK BROWN, YELLOW/GREEN, ESKOM STANDARD CODE, AE	M	1000
7	145040	CABLE, ELECTRICAL: CONDUCTOR SIZE: 185 MM2; TYPE: ARMORED; CONDUCTOR: 3 CORE, CU STRANDED; COVERING: PVC; RATING: 3.3 KV; CONDUCTOR INSULATION: PVC; SUPPL P/N: CVX3SCV	M	1500
8	145031	CABLE, ELECTRICAL: CONDUCTOR SIZE: 2.5 MM2; TYPE: CATENARY FLAT; CONDUCTOR: 8 CORE, CU; COVERING: RUBBER; CONDUCTOR INSULATION: NEOPRENE; SIZE OF CABLE: 35 MM X 7 MM	M	200
9	144972	CABLE, ELECTRICAL: CONDUCTOR SIZE: 2.5 MM2; ARMOR: PVC; TYPE: ARMORED; CONDUCTOR: 4 CORE, CU; COVERING: PVC; CONDUCTOR INSULATION: PVC; REFERENCE NO: SC20.5605	M	500
10	14484	CABLE, ELECTRICAL: CONDUCTOR SIZE: 2.5 MM2; ARMOR: STL WIRE; TYPE: DIRECT BURIAL; CONDUCTOR: 19 CORE, CU STRANDED; COVERING: RUBBER; RATING: 1 KV; CONDUCTOR INSULATION: PVC; SUPPL P/N: BVX19DCV; PVC OUTER SHEATH	M	1000

**CONTROLLED DISCLOSURE**

11	645551	CABLE, ELECTRICAL: VOLTAGE: 230 V; CORE QUANTITY: 3; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 1.5 MM2; ARMOR: AL/PVC; DESIGN TYPE: INDUSTRIAL; CONDUCTOR INSULATION: PVC/RUBBER	M	2500
12	646486	CABLE, ELECTRICAL: VOLTAGE: 230 V; CORE QUANTITY: 3; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 1.5 MM2; ARMOR: AL/PVC; DESIGN TYPE: INDUSTRIAL; CONDUCTOR INSULATION: PVC/RUBBER	M	2500
13	641780	CABLE, ELECTRICAL: VOLTAGE: 3.3 KV; CORE QUANTITY: 3; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 35 X 3 MM2; ARMOR: ARMORED; DESIGN TYPE: UNDERGROUND; SHEATH MATERIAL: PVC; TYPE: XLPE ARMORED; CONDUCTOR: PLAIN CIRCULAR COMPACTED STRANDED; COVERING: EXTRUDED PVC BEDDING; RATING: 3.3 KV; TEMPERATURE RATING: 90 DEG C; LENGTH: 500 M; CONDUCTOR INSULATION: XLPE	M	2500
14	144996	CABLE, ELECTRICAL: VOLTAGE: 3.3/6.6 KV; CORE QUANTITY: 3; CONDUCTOR MATERIAL: RUBBER; CONDUCTOR SIZE: 25 MM2; ARMOR: NON ARMORED; DESIGN TYPE: TRAILING; TYPE: FLEXIBLE CU SCREENED MINING CABLE; CONDUCTOR: 3 CORE, CU STRANDED; COVERING: RUBBER; LENGTH: 1 KM; APPLICATION: MAIN SHIFTABLE 25 HEAD END TRANSFORMER; CONDUCTOR INSULATION: RUBBER; REFERENCE NO: CRR3KCR; 25 MM X3 CORE RUBBER TRAILING CABLE; TYPE 66 3.8/6.6KV; 3 EARTHS	M	20000
15	217825	CABLE, ELECTRICAL: CONDUCTOR SIZE: 300 MM2; ARMOR: XLPE; TYPE: ARMORED; CONDUCTOR: 1; RATING: 6.6 KV; CONDUCTOR INSULATION: PVC AWA; HALOGEN FREE W/WHITE STRIPE COVERING	M	1500

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16	241594	CABLE, ELECTRICAL: VOLTAGE: 300-500 VAC; CORE QUANTITY: 3; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 2.5 MM; ARMOR: PLASTIC/ALUMINIUM; DESIGN TYPE: SURFEX; CONDUCTOR INSULATION: AL/PLASTIC; SUPPL P/N: L31RR0023A; 2+EA WHITE	M	3000
17	144978	CABLE, ELECTRICAL: VOLTAGE: 3300 V; CORE QUANTITY: 3; CONDUCTOR MATERIAL: CU STRANDED; CONDUCTOR SIZE: 35 MM2; ARMOR: NON ARMORED; DESIGN TYPE: TRAILING; TYPE: HIGH VOLTAGE; CONDUCTOR: 3 CORE, CU STRANDED; COVERING: RUBBER; RATING: 3300 V; LENGTH: 500 M; CONDUCTOR INSULATION: RUBBER; REFERENCE NO: CRR4LCR; CORES INDIVIDUAL INSULATED; TWO ADDITIONAL 10MM PILOT CABLES TO BE INSERTED AS PART OFF CABLE	M	3000
18	145092	CABLE, ELECTRICAL: CONDUCTOR SIZE: 35 MM2; TYPE: SUPER WELDING; CONDUCTOR: 1 CORE, CU STRANDED; COVERING: PVC NITRILE; RATING: 300 A; CONDUCTOR INSULATION: PVC; COLOUR: GREY	M	2000
19	144973	CABLE, ELECTRICAL: CONDUCTOR SIZE: 4 MM2; ARMOR: PVC; TYPE: DIRECT BURIAL; CONDUCTOR: 4 CORE, CU; COVERING: PVC; CONDUCTOR INSULATION: PVC; REFERENCE NO: SC20: 5605	M	2000
20	145029	CABLE, ELECTRICAL: CONDUCTOR SIZE: 4 MM2; TYPE: TRAILING; CONDUCTOR: 4 CORE, CU; COVERING: PVC; CONDUCTOR INSULATION: PVC; CATENARY (FLAT CABLE)	M	1000
21	145282	CABLE, ELECTRICAL: CONDUCTOR SIZE: 4 MM2; TYPE: TRAILING; CONDUCTOR: 4 CORE, CU MULTISTRAND; COVERING: NEOPRENE; CONDUCTOR INSULATION: NEOPRENE	M	2000

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22	719022	CABLE, ELECTRICAL: VOLTAGE: 450-750 V; CORE QUANTITY: 1; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 95 MM2; DESIGN TYPE: TRAILING; STANDARD: HO7RN/F; CONDUCTOR: 95 MM2; COVERING: BLACK RUBBER; RATING: 192 A; LENGTH: 500 M; APPLICATION: POWER CABLE; CONDUCTOR INSULATION: RUBBER; TRAILING 95.00	M	1500
23	636087	CABLE, ELECTRICAL: VOLTAGE: 6.6 KV; CORE QUANTITY: 3; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 35 MM2; ARMOR: STL WIRE; DESIGN TYPE: INDUSTRIAL; SHEATH MATERIAL: PVC; TYPE: LOW HALOGEN; CONDUCTOR: 3 CORE, CU; COVERING: POLYURETHANE; LENGTH: 500 M; APPLICATION: CONVEYORS; CONDUCTOR INSULATION: PVC; SUPPL P/N: DXE03LCM	M	1500
24	241702	CABLE, ELECTRICAL: VOLTAGE: 600/1000 V; CORE QUANTITY: 4C; CONDUCTOR MATERIAL: CU; CONDUCTOR SIZE: 35 MM2; CONDUCTOR: 4 CORE, CU; RATING: 600/1000 V; CONDUCTOR INSULATION: PVC; REFERENCE NO: BVV04LCM; LH WITH BLUE STRIPE UNARMoured COVERING	M	500
25	724333	CABLE, ELECTRICAL: VOLTAGE: 600-1000 V; CORE QUANTITY: 4; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 2.5 MM2; DESIGN TYPE: 4 CORE; TYPE: POWER; COVERING: PVC; RATING: 26 A; LENGTH: 500 M; REFERENCE NO: BVX4DCJ; ARMoured; STRANDED COPPER; OIL RESISTANT; HALOGEN FREE; LOW SMOKE; FLAME RETARDANT AND STEEL WIRE ARMoured	M	1500

**CONTROLLED DISCLOSURE**

26	724332	CABLE, ELECTRICAL: VOLTAGE: 600-1000 V; CORE QUANTITY: 4; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 4 MM2; DESIGN TYPE: 4 CORE; TYPE: POWER CABLE; COVERING: PVC ARMoured; RATING: 35 A; LENGTH: 500 M; CONDUCTOR INSULATION: PVC; REFERENCE NO: BVX4ECJ; STRANDED COPPER; OIL RESISTANT; HALOGEN FREE; LOW SMOKE; FLAME RETARDANT AND STEEL WIRE ARMoured; RATED FOR 600/1000 V	M	1500
27	145043	CABLE, ELECTRICAL: CONDUCTOR SIZE: 70 MM2; CONDUCTOR: 4 CORE, CU STRANDED; COVERING: PVC; RATING: 600-1000 V; CONDUCTOR INSULATION: PVC; SUPPL P/N: BVX4NCV; LV	M	1000
28	145041	CABLE, ELECTRICAL: CONDUCTOR SIZE: 95 MM2; CONDUCTOR: 4 CORE, CU STRANDED; COVERING: PVC; RATING: 1 KV; CONDUCTOR INSULATION: PVC; SUPPL P/N: BVX4PCV; ARMoured	M	1000
29	724246	CABLE AND CONDUIT ASSEMBLY: TYPE: FLEXI CABLE; DIAMETER: 16 CORE; LENGTH: 500 M; CONNECTION TYPE: NORMAL TERMINATION; MATERIAL: COPPER; COLOR: BLACK; SPECIAL FEATURES: FLAT RIBBON	M	500
30	14530	WIRE, ELECTRICAL: TYPE: BUILDING; SIZE: 16 MM2; COLOR: BLACK; STRUCTURE: (7) STRAND; MATERIAL: CU; INSULATION: PVC; RATING: 600 V TO 1 KV; 1.72 MM DIA STRANDS, SUPPLIED IN 100 METER ROLLS; SINGLE CORE	M	500
31	749874	CABLE, ELECTRICAL: VOLTAGE: 3300 VAC; CORE QUANTITY: 1; CONDUCTOR MATERIAL: COPPER STRANDED; CONDUCTOR SIZE: 300 MM2; ARMOR: SINGLE STL WIRE; DESIGN TYPE: INDUSTRIAL; SHEATH MATERIAL: PVC; COVERING: PVC; RATING: 3300 VAC; CONDUCTOR INSULATION: PVC; REFERENCE NO: CVX1UCV	M	500

**CONTROLLED DISCLOSURE**

32	750016	CABLE, ELECTRICAL: VOLTAGE: 3300 VAC; CORE QUANTITY: 3; CONDUCTOR MATERIAL: STRANDED COPPER; CONDUCTOR SIZE: 35 MM2; ARMOR: SINGLE STL WIRE; DESIGN TYPE: INDUSTRIAL; SHEATH MATERIAL: PVC; COVERING: PVC; RATING: 3300 VAC; CONDUCTOR INSULATION: PVC; REFERENCE NO: CVX3LCV	M	500
33	750015	CABLE, ELECTRICAL: VOLTAGE: 3300 VAC; CORE QUANTITY: 3; CONDUCTOR MATERIAL: STRANDED COPPER; CONDUCTOR SIZE: 25 MM2; ARMOR: SINGLE STL WIRE; DESIGN TYPE: INDUSTRIAL; SHEATH MATERIAL: PVC; COVERING: PVC; RATING: 3300 VAC; CONDUCTOR INSULATION: PVC; REFERENCE NO: CVX3KCV	M	500
34	750014	CABLE, ELECTRICAL: VOLTAGE: 3300 VAC; CORE QUANTITY: 4; CONDUCTOR MATERIAL: STRANDED COPPER; CONDUCTOR SIZE: 120 MM2; ARMOR: SINGLE STL WIRE; DESIGN TYPE: INDUSTRIAL; SHEATH MATERIAL: PVC; COVERING: PVC; RATING: 3300 VAC; CONDUCTOR INSULATION: PVC; REFERENCE NO: CVX4QCV	M	500
35	750013	CABLE, ELECTRICAL: VOLTAGE: 22000 VAC; CORE QUANTITY: 3; CONDUCTOR MATERIAL: STRANDED COPPER; CONDUCTOR SIZE: 150 MM2; ARMOR: SINGLE STL WIRE; DESIGN TYPE: INDUSTRIAL; SHEATH MATERIAL: PVC; COVERING: PVC; CONDUCTOR INSULATION: XLPE; REFERENCE NO: FXE3RCV	M	500
36	750025	CABLE, ELECTRICAL: VOLTAGE: 6600 VAC; CORE QUANTITY: 3; CONDUCTOR MATERIAL: STRANDED COPPER; CONDUCTOR SIZE: 95 MM2; ARMOR: SINGLE STL WIRE; DESIGN TYPE: INDUSTRIAL; SHEATH MATERIAL: PVC; COVERING: INDIVIDUAL COPPER SCREEN TAPE AND SINGLE STL WIRE ARMOR; RATING: 6600 VAC; CONDUCTOR INSULATION: XLPE; REFERENCE NO: DXE3PCV; DELIVERED IN DRUM	M	500

**CONTROLLED DISCLOSURE**

37	750024	CABLE, ELECTRICAL: VOLTAGE: 6600 VAC; CORE QUANTITY: 3; CONDUCTOR MATERIAL: STRANDED COPPER; CONDUCTOR SIZE: 150 MM2; ARMOR: SINGLE STL WIRE; DESIGN TYPE: INDUSTRIAL; SHEATH MATERIAL: PVC; COVERING: INDIVIDUAL COPPER SCREEN TAPE AND SINGLE STL WIRE ARMOR; RATING: 1100 VAC; CONDUCTOR INSULATION: XLPE; REFERENCE NO: DXE3RCV; DELIVERERD IN DRUM	M	500
38	750020	CABLE, ELECTRICAL: VOLTAGE: 6600 VAC; CORE QUANTITY: 1; CONDUCTOR MATERIAL: STRANDED COPPER; CONDUCTOR SIZE: 300 MM2; ARMOR: SINGLE STL WIRE; DESIGN TYPE: INDUSTRIAL; SHEATH MATERIAL: PVC; COVERING: INDIVIDUAL COPPER SCREEN TAPE AND SINGLE STL WIRE ARMOR; RATING: 6600 VAC; CONDUCTOR INSULATION: XLPE; REFERENCE NO: DXE1UCV; DELIVERED IN DRUM	M	500
39	750022	CABLE, ELECTRICAL: VOLTAGE: 1000 VAC; CORE QUANTITY: 1; CONDUCTOR MATERIAL: STRANDED COPPER; CONDUCTOR SIZE: 630 MM2; ARMOR: STEEL WIRE; DESIGN TYPE: INDUSTRIAL; SHEATH MATERIAL: PVC; RATING: 1000 VAC; CONDUCTOR INSULATION: PVC; REFERENCE NO: BVX1XCV; DELIVERED IN DRUM	M	500
40	750021	CABLE, ELECTRICAL: VOLTAGE: 11000 VAC; CORE QUANTITY: 3; CONDUCTOR MATERIAL: STRANDED COPPER; CONDUCTOR SIZE: 150 MM2; ARMOR: SINGLE STL WIRE; DESIGN TYPE: INDUSTRIAL; SHEATH MATERIAL: PVC; COVERING: INDIVIDUAL COPPER SCREEN TAPE AND SINGLE STL WIRE ARMOR; RATING: 11000 VAC; CONDUCTOR INSULATION: XLPE; REFERENCE NO: EXE3RCV; DELIVERED IN DRUM	M	500

**CONTROLLED DISCLOSURE**

41	750023	CABLE, ELECTRICAL: VOLTAGE: 11000 VAC; CORE QUANTITY: 1; CONDUCTOR MATERIAL: STRANDED COPPER; CONDUCTOR SIZE: 300 MM2; ARMOR: SINGLE STL WIRE; DESIGN TYPE: INDUSTRIAL; SHEATH MATERIAL: PVC; COVERING: INDIVIDUAL COPPER SCREEN TAPE AND SINGLE STL WIRE ARMOR; RATING: 11000 VAC; CONDUCTOR INSULATION: XLPE; REFERENCE NO: EXE1UCV; DELIVERED IN DRUM	M	500
42	750019	CABLE, ELECTRICAL: VOLTAGE: 11000 VAC; CORE QUANTITY: 3; CONDUCTOR MATERIAL: STRANDED COPPER; CONDUCTOR SIZE: 95 MM2; ARMOR: SINGLE STL WIRE; DESIGN TYPE: INDUSTRIAL; SHEATH MATERIAL: PVC; COVERING: INDIVIDUAL COPPER SCREEN TAPE AND SINGLE STL WIRE ARMOR; RATING: 11000 VAC; CONDUCTOR INSULATION: XLPE; REFERENCE NO: EXE3PCV; DELIVERED IN DRUM	M	500
43	750018	CABLE, ELECTRICAL: VOLTAGE: 22000 VAC; CORE QUANTITY: 1; CONDUCTOR MATERIAL: STRANDED COPPER; CONDUCTOR SIZE: 500 MM2; ARMOR: SINGLE STL WIRE; DESIGN TYPE: INDUSTRIAL; SHEATH MATERIAL: PVC; COVERING: INDIVIDUAL COPPER SCREEN TAPE AND SINGLE STL WIRE ARMOR; RATING: 22000 VAC; CONDUCTOR INSULATION: XLPE; REFERENCE NO: FXE1WCV; DELIVERED IN DRUM	M	500
44	400635	CABLE, ELECTRICAL: VOLTAGE: 1 KV; CORE QUANTITY: 7 C; CONDUCTOR MATERIAL: CU; CONDUCTOR SIZE: 4 MM2; ARMOR: STL WIRE; DESIGN TYPE: STRANDED; COVERING: PVC; RATING: 600-1000 VAC; CONDUCTOR INSULATION: PVC; REFERENCE NO: BVX7ECV	M	500
45	750297	CABLE, ELECTRICAL; VOLTAGE: 1000 V AC; CONDUCTOR SIZE: 35 MM2; INSULATION: PVC; COVERING: PVC; ARMOR: STL WIRE; CORE QUANTITY: 4; CONDUCTOR MATERIAL: STRANDED COPPER; SHEATH MATERIAL: PVC; REFERENCE NO: BVX4LCV	M	500

**CONTROLLED DISCLOSURE**

46	750296	CABLE, ELECTRICAL; VOLTAGE: 1000 V AC; CONDUCTOR SIZE: 2.5 MM2; INSULATION: PVC; COVERING: PVC; ARMOR: STL WIRE; CORE QUANTITY: 7; CONDUCTOR MATERIAL: STRANDED COPPER; SHEATH MATERIAL: PVC; REFERENCE: BVX7DCV	M	500
47	750258	CABLE, ELECTRICAL; VOLTAGE: 11000 V AC; CONDUCTOR SIZE: 500 MM2; INSULATION: XLPE; COVERING: INDIVIDUAL COPPER SCREEN TAPE AND SINGLE STL WIRE ARMOR; ARMOR: STL WIRE; MATERIAL: PVC; CORE QUANTITY: 1; CONDUCTOR MATERIAL: STRANDED COPPER; SHEATH MATERIAL: PVC; REFERENCE: EXE1WCV	M	500
48	751828	CABLE, ELECTRICAL; VOLTAGE: 1.8/3kV AC; CONDUCTOR SIZE: 185 MM2; INSULATION: ETHYLENE PROPYLENE RUBBER; CORE QUANTITY: 1; CONDUCTOR MATERIAL: FLEXIBLE CLASS 5 COPPER; SHEATH MATERIAL: POLYCHLOROPRENE; Reference/Model: NSGAFOU	M	500
49	755169	CABLE, ELECTRICAL; VOLTAGE: 600/1000 V; CONDUCTOR SIZE: 2.5 MM2; INSULATION: PVC; ARMOR: STL WIRE; CORE QUANTITY: 3; CONDUCTOR MATERIAL: STRANDED COPPER; SHEATH MATERIAL: LOW HALOGEN PVC SHEATHED; SPECIFICATIONS: SANS 1411, SANS 1507-3, SANS 1339; SANS 1574, BVX3DCM	M	500
50	755170	CABLE, ELECTRICAL; VOLTAGE: 600/1000 V; CONDUCTOR SIZE: 4 MM2; INSULATION: PVC; ARMOR: STL WIRE; CORE QUANTITY: 3; CONDUCTOR MATERIAL: STRANDED COPPER; SHEATH MATERIAL: LOW HALOGEN PVC SHEATHED; SPECIFICATIONS: SANS 1411, SANS 1507-3, SANS 1339; SANS 1574, BVX3ECM	M	500

**CONTROLLED DISCLOSURE**

51	755172	CABLE, ELECTRICAL; VOLTAGE: 600/1000 V; CONDUCTOR SIZE: 6 MM2; INSULATION: PVC; ARMOR: STL WIRE; CORE QUANTITY: 3; CONDUCTOR MATERIAL: STRANDED COPPER; SHEATH MATERIAL: LOW HALOGEN PVC SHEATHED; SPECIFICATIONS: SANS 1411, SANS 1507-3, SANS 1339; SANS 1574, BVX3FCM	M	500
52	755175	CABLE, ELECTRICAL; VOLTAGE: 600/1000 V; CONDUCTOR SIZE: 10 MM2; INSULATION: PVC; ARMOR: STL WIRE; CORE QUANTITY: 3; CONDUCTOR MATERIAL: STRANDED COPPER; SHEATH MATERIAL: LOW HALOGEN PVC SHEATHED; SPECIFICATIONS: SANS 1411, SANS 1507-3, SANS 1339; SANS 1574, BVX3GCM	M	500
53	755238	CABLE, ELECTRICAL; VOLTAGE: 600/1000 V; CONDUCTOR SIZE: 16 MM2; INSULATION: PVC; ARMOR: STL WIRE; CORE QUANTITY: 3; CONDUCTOR MATERIAL: STRANDED COPPER; SHEATH MATERIAL: LOW HALOGEN PVC SHEATHED; SPECIFICATIONS: SANS 1411, SANS 1507-3, SANS 1339; SANS 1574, BVX3HCM	M	500
54	756584	CABLE, ELECTRICAL; VOLTAGE: 600/1000 V; CONDUCTOR SIZE: 50 MM2; INSULATION: PVC; ARMOR: STL WIRE; CORE QUANTITY: 3; CONDUCTOR MATERIAL: STRANDED COPPER; SHEATH MATERIAL: LOW HALOGEN PVC SHEATHED; SPECIFICATIONS: SANS 1411, SANS 1507-3, SANS 1339; SANS 1574, BVX3MCM	M	500
55	755239	CABLE, ELECTRICAL; VOLTAGE: 600/1000 V; CONDUCTOR SIZE: 25 MM2; INSULATION: PVC; ARMOR: STL WIRE; CORE QUANTITY: 4; CONDUCTOR MATERIAL: STRANDED COPPER; SHEATH MATERIAL: LOW HALOGEN PVC SHEATHED; SPECIFICATIONS: SANS 1411, SANS 1507-3, SANS 1339; SANS 1574, BVX4KCM	M	500

**CONTROLLED DISCLOSURE**

56	0756189	CABLE, ELECTRICAL: VOLTAGE: 1.9/3.3 KV; CORE QUANTITY: 6; CONDUCTOR MATERIAL: FLEXIBLE TINNED STRANDED COPPER; CONDUCTOR SIZE: 3 X 50 + 16 + 2 X 10 MM <sup>2</sup> ; DESIGN TYPE: TRAILING REELING CABLE; SHEATH MATERIAL: CHLORINATED POLYETHYLENE, POLYCHLOROPRENE RUBBER AND CHLOROSULPHONATED POLYETHYLENE RUBBER; SPECIFICATION: SANS 1520-1; SANS 1411-1; SANS 1411-3; APPLICATION: ASH STACKER REELING CABLE; CONDUCTOR INSULATION: ETHYLENE-PROPYLENE RUBBER; TINNED BRAIDED COPPER WIRED SCREEN	M	2000
57	0756190	CABLE, ELECTRICAL: VOLTAGE: 1.9/3.3 KV; CORE QUANTITY: 6; CONDUCTOR MATERIAL: FLEXIBLE TINNED STRANDED COPPER; CONDUCTOR SIZE: 3 X 35 + 16 + 2 X 10 MM <sup>2</sup> ; DESIGN TYPE: TRAILING REELING CABLE; SHEATH MATERIAL: CHLORINATED POLYETHYLENE, POLYCHLOROPRENE RUBBER AND CHLOROSULPHONATED POLYETHYLENE RUBBER; RATING: 1.9/3.3 KV; SPECIFICATION: SANS 1520-1; SANS 1411-1; SANS 1411-3; APPLICATION: ASH SPREADER; CONDUCTOR INSULATION: ETHYLENE-PROPYLENE RUBBER; TINNED	M	2000

**CONTROLLED DISCLOSURE**

#### 4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Silus Tisane	Snr Technician EMD
Masala Mafora	Snr Planner Production Works Management
Vonnie Vermaas	Snr Advisor Electrical Engineering
Putsisho Kapu	Engineer Prof Electrical
Wandile Mjuqu	Engineer Prof Electrical
Dumisani Makamu	Snr Advisor Procurement
Boleo Lesejane	Snr Technician Electrical Engineering
Aaron Mabasa	Snr Supervisor EMD
Adie Van Zyl	Prin Artisan Electrical Maintenance
Aaronia Mothiba	Snr Supervisor PTM (Power Electronics)
Lesiba Mboyane	Snr Supervisor PTM (Protection)
Spha Mbhele	Snr Engineer Prof Electrical
Hope Kakunekwao	Engineer In Training
Sthembiso Sibanyoni	Snr Technologist Engineer
Adriaan Besseling	Electrical Maintenance Manager
Louisa Bamuza	Electrical Engineering Manager

#### 5. REVISION

Name	Rev.	Compiler	Remarks
September 2024	0	Putsisho Kapu	Draft
October 2024	1	Putsisho Kapu	Added No 48, Amended quantities.

**CONTROLLED DISCLOSURE**

January 2025	2	Putsisho Kapu	Added No 49-57. Amended quantities.
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## **6. DEVELOPMENT TEAM**

- Gudani Raphalalani
- Silus Tisane
- Masala Mafora
- Vonnie Vermaas
- Hope Kakunekwao
- Boleo Lesejane
- Putsisho Kapu

## **7. ACKNOWLEDGEMENTS**

N/A

**CONTROLLED DISCLOSURE**