

	Scope of Work	Camden Power Station
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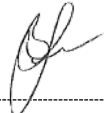
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1. Introduction

Camden Power Station management decided to establish a long-term agreement for the supply of some of the power Station's strategic, critical, and operational plant spares. For the plant to operate effectively and efficiently, maintenance must be performed at intervals specified as per plant maintenance strategies. Correct plant spares are required to ensure maintenance is executed as per the maintenance strategy requirements and thus must be always available. The identification of which specific components to be kept as spares as well as the quantities has been done according to the information available at the time of the compilation of this document.

2. Supporting Clauses

2.1 Scope

The scope of work document specifies the technical requirements of the spares to be supplied by the Supplier and conditions for acceptance. The scope included here does not substitute procurement procedures that will be followed during the procurement process.

2.1.1 Purpose

The purpose of this document is to ensure that all maintenance spares which are being procured by Camden Power Station are correct and correctly specified.

2.1.2 Applicability

This document is applicable to Camden Power Station.

2.1.3 Effective date

This document is effective from the authorisation date.

2.2 Normative/Informative References

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

2.2.1 Normative

- [1] 240-105658000 Supplier Quality Management Specification (QM-58)
- [2] 240-76960420 Guideline for Spares Procurement Technical Evaluation and Quality Inspection

2.2.2 Informative

- [3] ISO 9000 Quality Management System – Fundamentals and Vocabulary
- [4] 32-727 Safety, Health, Environment, and Quality (SHEQ) Policy
- [5] 240-56063805 LV Power and Control Cable with Rated Voltage Standard 600/1000V

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[6] Generation Plant Engineering Life Cycle Planning/Strategic Report for Direct Current Systems 2014: 474-10053

[7] 240-56356396 Earthing and Lightning Protection Standard

2.3 Definitions

Supplier: Contractor contracted to provide a specific spares & documentation to Camden Power Station

Employer: Eskom, Camden Power Station

Employer Representative: Any person appointed in writing by Employer as the delegated Employer representative in terms of the provisions.

Plant: Any structure, machinery, apparatus, or equipment which does not fall within the scope of the operating regulations for high voltage systems, and excludes, mobile, portable lifting equipment, domestic circuits' appliances, and tools.

2.4 Abbreviations

Abbreviation	Explanation
BOQ	Bill of Quantities
DC	Direct Current
DCF	Data Capturing Form
EMD	Electrical Maintenance Department
ITP	Inspection and Test Plan
OEM	Original Equipment Manufacturer
PCM	Process Control Manual
PTM	Protection Testing and Metering (Department)
QC	Quality Control
QCP	Quality Control Plan
SAP	Systems, Applications and Programmes Software
SOW	Scope of Work

2.5 Roles and Responsibilities

2.5.1 Supplier

- Provide a quotation for each listed item in Appendix A as part of tender deliverable
- Supply procured spares as requested by the Employer
- Provide technical support services as requested by the Employer
- Confirm correctness of the supplied spares information
- Provide spares technical information in accordance with this SOW

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- f. Timeously inform the Employer of any delays or when outstanding or additional information from the Employer is required
- g. Responsible to ensure that a quality product is delivered
- h. Responsible to ensure that the correct spare is supplied
- i. Responsible to ensure that every effort is made to keep to the agreed program and plan
- j. Provide all required technical datasheets and/or product brochures
- k. Conform to all the other requirements stipulated in this document
- l. Supply all the necessary test sheets/results, where applicable
- m. Invite the Employer or representative thereof three (3) working days in advance for witness/hold points, if applicable, as agreed
- n. All Supplier employees entering site shall comply with Eskom's policies and site regulations, adherence to Eskom's Life Saving Rules, adherence to Generation Occurrence Management Procedure, Smoking Policy, zero tolerance on alcohol usage, etc. These requirements will be detailed during the induction training process.
- o. Ensure that all staff brought onto site in connection with this SOW should be able to fluently speak, understand and write in English language.
- p. The Contractor ensures that all staff brought to Camden PS site have a valid fitness certificate based on the specified plant man-job specification.

2.5.2 Employer: Technical Support & Engineering

- a. Compile and submit scope of work with technical specifications.
- b. Performs Quality Control of all spares on delivery at the Employer premises.
- c. Liaise with all relevant stakeholders for any input
- d. Ensure that the Works Information is in accordance with Eskom policies and procedures
- e. Provide all necessary information to assist in spares and technical support services procurement
- f. Participate in technical evaluation of the tender documents
- g. Assist with the preparation of all the reports to different tender committees, where applicable
- h. Provide technical assistance to Maintenance, Materials Management and Procurement Departments during the execution of this Works Information
- i. Perform Quality Checks on procured spares and accompanying documentation
- j. Verification and acceptance of all supplied documentation including DCFs
- k. Responsible for QC at delivery of procured spares

2.5.3 Employer: Materials Management

- a. Catalogue the spares after completion of DCFs
- b. Confirm that the information supplied by the engineer is enough for cataloguing
- c. Perform QC on all submitted DCFs

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- d. Make provision for storage of procured spares
- e. Work together with engineering and maintenance when accepting spares into stores

2.5.4 Employer: Procurement Department

- a. Perform all procurement processes outlined in this Works Information
- b. Issue invitation to tender to the *Supplier*
- c. Supply engineering with *Supplier* information for sole source justifications, where applicable.
- d. Set up clarification meetings between *Supplier* and *Employer*
- e. Act as communication link between *Supplier* and *Employer*
- f. Ensure all necessary payments are processed timeously and keep record thereof.
- g. Arrange technical evaluation sessions.
- h. Compile and present mandate to negotiate and arrange negotiation meetings when required and give feedback to relevant tender committee.
- i. Keep record of all tender documentation

2.5.5 Employer: Electrical Maintenance Department

- a. Ensure spare items are stored properly by Materials Management as per relevant storage recommendations by the respective manufacturers
- b. Ensure Spares are used sparingly and appropriately for the duration of the contract.
- c. Provide Materials Management with populated DCFs for cataloguing of spares and record keeping
- d. Responsible for QC at delivery of procured spares and upon delivery

2.5.6 Management and Reporting

- a. The Contractor to be represented at any ad-hoc meetings that may arise to address any scope and safety related matters
- b. Liaison meetings shall be held with the Employer's Representative or his/her delegate on as and when required basis to discuss any technical details, or concerns.

2.5.7 Communication and Correspondence

- a. All correspondence includes but not limited to:
 - i. Camden Power Station
 - ii. Employer's Contract number
 - iii. Contract description
 - iv. Correspondence subject matter
 - v. Employer's name and contact details
 - vi. Contractors contact details

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vii. Date

- b. Where appropriate the correspondence includes the Employer's reference and is delivered as a single package or as per the agreed contract terms.
- c. All communications from the Contractor are numbered sequentially with a prefix as advised by the Employer. The Employer responds in like manner. The prefix and numbering system is decided upon at the Inaugural meeting.

2.5.8 Quality and Documentation Control

- a. During the tender process a quality criterion will be defined that the Contractor must comply to.
- b. The Contractor shall ensure that any witness, hold, and inspection points are strictly adhered to.
- c. All Quality References and Standards as stipulated in this document will be adhered to.
- d. The Contractor to comply with the Employer's quality documentation management system and processes.

2.6 Process for Monitoring

This document will be a once-off document to state the scope of work for a spares supply and delivery contract. The document shall be reviewed by the engineering and maintenance team to ensure it is sufficient to cover all the requirements of the works and ensure that the Supplier does not deviate from the original design specification of the components.

2.7 Related/Supporting Documents

Not Applicable.

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3. Electrical Cables and Earthing Spares Scope of Supply

3.1 Plant Description

Camden Power Station is a 1600MW rated power station with each of the eight (8) units rated at 200MW. The electrical power cabling system is used to supply and distribute power from various sources to their loads. The earthing and lightning protection system is used to ensure the safety of personnel and to prevent damage to installations in the plant.

The electrical power cabling and earthing and lightning protection systems consist of different types of technologies used for various user requirements. The Power Station is a 24-hour day business and continuous availability of the power and safe operation of the electrical plant is essential to ensure safe continuity of business. It is important to ensure that the spares are available and conforms to the quality requirements.

The plant uses 6600V medium voltage distribution as well as 400V/230V low voltage distribution system. 220V and 24V systems are also used for the distribution of Direct Current (DC) systems. The plant also uses UVG cables for the control and instrumentation installations.

Note: Various spares are included in this SOW for the electrical power cabling and earthing and lightning protection including the cabling accessories.

3.2 Description of the Works

The scope entails the supply and delivery of spares with technical specifications detailed in a spares list (BOQ) that is included herein and attached as Appendix A: Camden Power Station Electrical Cabling and Earthing Spares BOQ. Where the UVG and BVX codes are used in the BOQ item descriptions, Appendix B – Eskom Standard Code for Instrument Cables and Appendix C – Eskom Standard Code for Power and Electrical Control Cables must be consulted.

Item	Description	Unit of Measure	Quantity	Rate	Price
MEDIUM VOLTAGE CABLES					
	500MM2 X 1 CORE (FXE01WCV) 22KV/22KV	300m Drum	16		
	500MM2 X 1 CORE (DXG01WCV) 6.35KV/11KV	300m Drum	16		
	300MM2 X 3 CORE (DXE03UCV) 6.35KV/11KV	300m Drum	16		
	240MM2 X 3 CORE (DXE03TCV) 6.35KV/11KV	300m Drum	16		
	185MM2 X 3 CORE (DSW03RCV) 6.35KV/11 KV	300m Drum	16		

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	150MM2 X 3 CORE (DXE03RCV) 6.35KV/11 KV	300m Drum	16		
	120MM2X 3 CORE (DXE03QCV) 6.35KV/11KV	300m Drum	16		
	70MM2X 3 CORE (DXX03NCV) 6.35KV/11KV	300m Drum	16		
	50MM2X 3 CORE (DXX03MCV) 6.35KV/11KV	300m Drum	16		
MEDIUM VOLTAGE, LOW VOLTAGE & CONTROL CABLES					
	CABLE ASSEMBLY, POWER ELECTRICAL: TYPE: PULL KEY; OVERALL LENGTH: 1 KM; CONDUCTOR QUANTITY: (4) 1.05 MM2; POTENTIAL: 600/1000 V; COLOR: BLACK; APPLICATION: CONVEYOR TRIP WIRE; SPECIFICATION: SANS 1507/1990; DRAWING NO: CTS-PCAB REV 1; LAID UP TOGETHER AND DOUBLE CLEAR POLYESTER TAPE BEDDED BRASS COATED STEEL WIRE BRAID PVC D2	1 km	50		
	CABLE ASSEMBLY: TYPE: EXTENSION; DIAMETER: 25 MM; MATERIAL: PVC; SUPPL P/N: 330130-040-0000; 3300XL, UNARMoured, FOR USE WITH KEYPHASOR SENSOR AND PROBE, MUST BE CHECKED AT RECEIVING BEFORE BEING PLACED ON THE SHELF; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	300m Drum	16		
	CABLE ASSEMBLY: TYPE: EXTENTION; LENGTH: 3 M; REFERENCE NO: 330130-080-00-00; FOR PROXIMITY TRANSDUCERS, LENGTH 8 METERS, WITHOUT STAINLESS STEEL ARMOUR, COMPLETE WITH MINITURE MALE AND FEMALE COAXIAL CONNECTORS FOR USE ON BENTLY NEVADA TURBOVISORY EQUIPMENT; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	3m	100		
	CABLE, COMMUNICATION: TYPE: INSTRUMENTS; CONDUCTOR: 16 CORE, CU; CONDUCTOR SIZE: 0.5 MM2; INSULATION: PVC; SUPPL P/N: UVG8ACV; PVC	1000m Drum	10		
	CABLE, COMMUNICATION: TYPE: INSTRUMENTS; CONDUCTOR: 16 CORE, CU; CONDUCTOR SIZE: 0.5 MM2; INSULATION: PVC; SUPPL P/N: UVG8ACV; PVC	1000m Drum	10		

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	CABLE, COMMUNICATION: TYPE: INSTRUMENTS; CONDUCTOR: 40; CONDUCTOR SIZE: 0.5 MM; SHEATH MATERIAL: PVC; SUPPL P/N: UVG20ACV; 100 METER PER ROLL	1000m Drum	10		
	CABLE, COMMUNICATION: TYPE: INSTRUMENTS; CONDUCTOR: 8 CORE, CU; CONDUCTOR SIZE: 0.5 MM2; INSULATION: PVC; SUPPL P/N: UVG04ACV; PVC; 1000m = EA	1000m Drum	10		
	CABLE, COMMUNICATION: TYPE: PATCH; SUPPL P/N: 6ES79601AA045AA0; SIMATIC S7-400H, TYPE DATA	300m Drum	16		
	CABLE, ELECTRICAL: CONDUCTOR SIZE: 0.34 MM2; TYPE: SIGNAL; CONDUCTOR: 5 CORE, CU; COVERING: PUR; LENGTH: 10 M; APPLICATION: MILLS PA FLOW SENSORS; CONDUCTOR INSULATION: PUR; MANUF P/N: SAC-5P- M12MS/10.0-PUR/M12FSSH; MAX VOLTAGE 30VDC SHIELDED CABLE	300m Drum	16		
	CABLE, ELECTRICAL: CONDUCTOR SIZE: 0.5 MM2; ARMOR: COPPER; TYPE: TWINFLEX, MULTISTRAND; RATING: 300-500 V; CONDUCTOR INSULATION: PVC WHITE; REFERENCE NO: 254111; TYPE APPLIANCE	300m Drum	16		
	CABLE, ELECTRICAL: CONDUCTOR SIZE: 0.5 MM2; TYPE: SIGNAL; CONDUCTOR: 4 CORE, CU; COVERING: PUR; LENGTH: 12 M; APPLICATION: MILLS PA FLOW SENSORS; CONDUCTOR INSULATION: PUR; MANUF P/N: LIY(C)Y2X2X0.5	300m Drum	16		
	CABLE, ELECTRICAL: CORE QUANTITY: 1; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 500 MM2; ARMOR: COPPER SCREEN/STEEL WIRE; TYPE: HV, STRANDED; COVERING: PVC; RATING: 6.35-11 KV; CONDUCTOR INSULATION: XLPE; SUPPL P/N: DXE01WCV; 300 M DRUM = 1 EA	300m Drum	16		
	CABLE, ELECTRICAL: CONDUCTOR SIZE: 16 MM2; TYPE: EXPANDA; CONDUCTOR: 4 CORE, CU; COVERING: PVC; CONDUCTOR INSULATION: RUBBER; SUPPL P/N: 332825-5025; DAIMOND POWER	300m Drum	16		

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	CABLE, ELECTRICAL: CONDUCTOR SIZE: 2.5 MM2; TYPE: CABTYRE; CONDUCTOR: 4 CORE, CU; COVERING: PVC; RATING: 500 V; CONDUCTOR INSULATION: PVC; BLACK INSULATED, TYPE 6, 19MM OD, COLOUR CODED: ONE BLUE, ONE BROWN, ONE BLACK AND ONE YELLOW/GREEN, TO THE LATEST EDITION OF SABS150 AND BEARING THE SABS MARK OF APPROVAL	300m Drum	16		
	CABLE, ELECTRICAL: CONDUCTOR SIZE: 2.5 MM2; TYPE: CTS PC; CONDUCTOR: 5 CORE, CU; COVERING: PVC; CONDUCTOR INSULATION: PVC; SUPPL P/N: CTSPC; PLEASE NOTE: MATERIAL COMES IN 500M PER ROLL = 1 EA	300m Drum	16		
	CABLE, ELECTRICAL: CONDUCTOR SIZE: 2.5 MM2; TYPE: SILICON; CONDUCTOR: 3 CORE, CU; COVERING: RUBBER SILICON; CONDUCTOR INSULATION: RUBBER	300m Drum	16		
	CABLE, ELECTRICAL: CONDUCTOR SIZE: 2.5 MM2; TYPE: SURFIX; CONDUCTOR: 2 CORE, CU; E; COVERING: PVC WHITE; CONDUCTOR INSULATION: PVC	300m Drum	16		
	CABLE, ELECTRICAL: CORE QUANTITY: 3; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 1.5 MM2; TYPE: CABTYRE; COVERING: PVC; RATING: 250-500 VCABLE ELECT:3;COPPER;1.5 MM2;CABTYRE;PVC;RATING: 250-500 V; 15 A; CONDUCTOR INSULATION: PVC; SUPPL P/N: P5; 70 STRANDS, IN 100 M ROLL, BLACK OD , COLOUR CODED; ONE BLUE, ONE BROWN, ONE GREEN/YELLOW	300m Drum	16		
	CABLE, ELECTRICAL: CORE QUANTITY: 3; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 120 MM2; ARMOR: COPPER SCREEN/STEEL WIRE; TYPE: HV, STRANDED; COVERING: PVC; RATING: 6.35-11 KV; CONDUCTOR INSULATION: XLPE; SUPPL P/N: DXE03QCV; 300 M DRUM = 1 EA	300m Drum	16		
	CABLE, ELECTRICAL: CORE QUANTITY: 3; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 120 MM2; ARMOR: STEEL WIRE; TYPE: STRANDED; COVERING: PVC; RATING: 22 KV; CONDUCTOR INSULATION: XLPE; SUPPL P/N: FXX03QCV; 300 M DRUM = 1 EA	300m Drum	16		

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	CABLE, ELECTRICAL: CORE QUANTITY: 3; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 185 MM2; ARMOR: COPPER SCREEN/STEEL WIRE; TYPE: HIGH VOLTAGE, STRANDED; COVERING: PVC; RATING: 6.35-11 KV; CONDUCTOR INSULATION: XLPE; SUPPL P/N: DXE03SCV; 300 M DRUM = 1 EA	300m Drum	16		
	CABLE, ELECTRICAL: CORE QUANTITY: 3; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 2.5 MM2; COVERING: SILICON SHEATH; RATING: 600 V 600 A; CONDUCTOR INSULATION: SILICON; PVC ALUMINIUM COPPER BRAIDED FIBRE TEXTILE PROTECTION	300m Drum	16		
	CABLE, ELECTRICAL: CORE QUANTITY: 3; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 2.5 MM2; TYPE: CABTYRE; COVERING: PVC; RATING: 300-500 V; CONDUCTOR INSULATION: PVC; BLACK IN 100 M ROLLS	300m Drum	16		
	CABLE, ELECTRICAL: CORE QUANTITY: 3; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 50 MM2; ARMOR: COPPER SCREEN/STEEL WIRE; TYPE: HV, STRANDED; COVERING: PVC; RATING: 6.35-11 KV; CONDUCTOR INSULATION: XLPE; SUPPL P/N: DXE03MCV; 300 M DRUM = 1 EA	300m Drum	16		
	CABLE, ELECTRICAL: CORE QUANTITY: 3; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 70 MM2; ARMOR: COPPER SCREEN/STEEL WIRE; TYPE: HV, STRANDED; COVERING: PVC; RATING: 6.35-11 KV; CONDUCTOR INSULATION: XLPE; SUPPL P/N: DXE03NCV; 300 M DRUM = 1 EA	300m Drum	16		
	CABLE, ELECTRICAL: CORE QUANTITY: 3; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 95 MM2; ARMOR: COPPER SCREEN/STEEL WIRE; TYPE: HIGH VOLTAGE, STRANDED; COVERING: PVC; RATING: 6.35-11 KV; CONDUCTOR INSULATION: XLPE; SUPPL P/N: DXE03PCV; 300 M DRUM = 1 EA	300m Drum	16		

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CABLE, ELECTRICAL: CORE QUANTITY: 30; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 2.5 MM2; ARMOR: PVC; TYPE: SEMOFLEX, STRANDED; COVERING: POLYURETHANE; RATING: 0.6/1 KV; TEMPERATURE RATING: -40 TO 80 DEG C; LENGTH: 100 M; APPLICATION: CONVEYOR TRIPPER CAR; CONDUCTOR INSULATION: SEMOCORE; NOTE: 100 M DRUM TO BE ISSUED AS 1EA (100 M = 1 EA)	100m Drum	25		
CABLE, ELECTRICAL: VOLTAGE: 300/500 V; CORE QUANTITY: 2; CONDUCTOR MATERIAL: CU; CONDUCTOR SIZE: 1.5 MM2; ARMOR: UNARMORED; DESIGN TYPE: WIRING CABLE; TYPE: SURFIX; CONDUCTOR: 2 CORE, CU; COVERING: PVC; LENGTH: 100 M; CONDUCTOR INSULATION: PVC; COLOUR WHITE; WITH EARTH	300m Drum	16		
CABLE, ELECTRICAL: VOLTAGE: 300/500 V; CORE QUANTITY: 2; CONDUCTOR MATERIAL: CU; CONDUCTOR SIZE: 4 MM2; ARMOR: UNARMORED; DESIGN TYPE: WIRING CABLE; TYPE: SURFIX; CONDUCTOR: 2 CORE, CU; CONDUCTOR INSULATION: PVC; 100 METRES PER ROLL; WITH EARTH	300m Drum	16		
CABLE, ELECTRICAL: CONDUCTOR SIZE: 4 MM2; CONDUCTOR: 1 CORE, CU STRANDED; COVERING: SILICONE BLUE; TEMPERATURE RATING: -50 TO 180 DEG C; CONDUCTOR INSULATION: SILICON	300m Drum	16		
CABLE, ELECTRICAL: CONDUCTOR SIZE: 4 MM2; CONDUCTOR: 1 CORE, CU STRANDED; COVERING: SILICON RED; TEMPERATURE RATING: -50 TO 180 DEG C; CONDUCTOR INSULATION: SILICON	300m Drum	16		
CABLE, ELECTRICAL: CONDUCTOR SIZE: 4 MM2; CONDUCTOR: 1 CORE, CU STRANDED; COVERING: SILICONE WHITE/YELLOW; LENGTH: 100 M; CONDUCTOR INSULATION: SILICON	300m Drum	16		
CABLE, ELECTRICAL: CORE QUANTITY: 4; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 0.5 MM2; TYPE: FLEXIBLE, STRANDED; COVERING: PVC BLACK WITH RED STRIPE; RATING: 30; CONDUCTOR INSULATION: PVC; SUPPL P/N: UVG02; 1000 M = 1 EA	1000m Drum	18		

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	CABLE, ELECTRICAL: CORE QUANTITY: 4; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 0.5 MM2; TYPE: FLEXIBLE, STRANDED; COVERING: PVC BLACK WITH RED STRIPE; RATING: 30; CONDUCTOR INSULATION: PVC; SUPPL P/N: UVG02; 1000 M = 1 EA	300m Drum	16		
	CABLE, ELECTRICAL: CORE QUANTITY: 4; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 16 MM2; ARMOR: STEEL WIRE; TYPE: 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	300m Drum	16		
	CABLE, ELECTRICAL: VOLTAGE: 1 KV; CORE QUANTITY: 4C; CONDUCTOR MATERIAL: ALUMINIUM; CONDUCTOR SIZE: 240 MM2; ARMOR: STL WIRE; DESIGN TYPE: BVX4TAV; COVERING: PVC SHEATH; RATING: 1 KV AC; SPECIFICATION: STANDARD: SANS 1507-3; ESKOM 240-56063805; TEST AND CERTIFICATION REQUIREMENTS: SANS 1507-3; CONDUCTOR INSULATION: PVC; DRAWING NO: D2128 REV 1; 4 CORE STRANDED ALUMINIUM CONDUCTOR; 300 M DRUM; INDELIBLE MNFRS TRADEMARK AND PART NO ON ALL ITEMS AND CABLE DRUM STAMPED/MARKED	300m Drum	16		
	CABLE, ELECTRICAL: VOLTAGE: 1 KV; CORE QUANTITY: 4C; CONDUCTOR MATERIAL: CU; CONDUCTOR SIZE: 50 MM2; ARMOR: STL WIRE; DESIGN TYPE: BVX4MCV; COVERING: PVC OUTER SHEATH; RATING: 0.6/1 KV AC; SPECIFICATION: ESKOM: 240-56063805; STD SANS 1507; TEST/CERTIFICATION SANS 1507; CONDUCTOR INSULATION: PVC; DRAWING NO: D3128 REV 1; 4 CORE STRANDED COPPER CONDUCTOR; 300 M DRUM, IDENTIFICATION: INDELIBLE MNFRS. TRADEMARK AND PART NO. ON ALL ITEMS AND DRUM TO BE STAMPED/MARKED	300m Drum	16		

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	CABLE, ELECTRICAL: VOLTAGE: 1 KV; CORE QUANTITY: 4C; CONDUCTOR MATERIAL: ALUMINIUM; CONDUCTOR SIZE: 95 MM2; ARMOR: STL WIRE; DESIGN TYPE: BCX4PAV; COVERING: PVC SHEATH; RATING: 1 KV AC; SPECIFICATION: STANDARD: SANS 1507-3; ESKOM: 240-56063805; TEST AND CERTIFICATE REQUIREMENTS: SANS 1507-3; CONDUCTOR INSULATION: PVC; DRAWING NO: D2128 REV 1; 4 CORE STRANDED ALUMINIUM CONDUCTOR; 300 M DRUM; IDENTIFICATION INDELIBLE MNFRS. TRADEMARK AND PART NO ON ALL ITEMS AND CABLE DRUM STAMPED/MARKED	300m Drum	16		
	CABLE, ELECTRICAL: VOLTAGE: 1 KV; CORE QUANTITY: 4C; CONDUCTOR MATERIAL: CU; CONDUCTOR SIZE: 70 MM2; ARMOR: STL WIRE; DESIGN TYPE: BVX4NCV; COVERING: PVC OUTER SHEATH; RATING: 0.6/1 KV AC; SPECIFICATION: ESKOM: 240-56063805; STD SANS 1507; TEST/CERTIFICATION SANS 1507; CONDUCTOR INSULATION: PVC; DRAWING NO: D3128 REV 1; 4 CORE STRANDED COPPER CONDUCTOR; 300M DRUM; IDENTIFICATION: INDELIBLE MNFRS. TRADEMARK & PART NO. ON ALL ITEMS AND DRUM TO BE STAMPED/MARKED	300m Drum	16		
	CABLE, ELECTRICAL: VOLTAGE: 1 KV; CORE QUANTITY: 4C; CONDUCTOR MATERIAL: CU; CONDUCTOR SIZE: 120 MM2; ARMOR: STL WIRE; DESIGN TYPE: BVX4QCV; COVERING: PVC OUTER SHEATH; RATING: 0.6/1 KV AC; SPECIFICATION: ESKOM: 240-56063805; STD SANS 1507; TEST/CERTIFICATION SANS 1507; CONDUCTOR INSULATION: PVC; DRAWING NO: D3128 REV 1; 4 CORE STRANDED COPPER CONDUCTOR: 300M DRUM, IDENTIFICATION: INDELIBLE MNFRS. TRADEMARK & PART NO. ON ALL ITEMS AND DRUM TO BE STAMPED/MARKED	300m Drum	16		
	CABLE, ELECTRICAL: CORE QUANTITY: 5; CONDUCTOR SIZE: 4 MM2; ARMOR: TEXTILE BRAIDS; TYPE: SEMOFLEX; COVERING: POLYURETHANE; RATING: 0.6/1 KV; SPECIFICATION: VDE6510; WEIGHT PER UNIT MEASURE: 362 KG/KM; TEMPERATURE RATING: 80 DEG C; LENGTH: 60 M; APPLICATION: COAL PLANT TRIPPER CARS; CONDUCTOR INSULATION: POLYURETHANE	300m Drum	16		

CONTROLLED DISCLOSURE

	CABLE, ELECTRICAL: VOLTAGE: 600 V; CORE QUANTITY: 1; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 2.6 MM; ARMOR: PVC; DESIGN TYPE: MTW/ THWN/ THHN; MANUF P/N: E51583; GASOLINA AND OIL RESISTANT; NOTE: 1 EACH = 30 METERS	30m	66		
	CABLE, ELECTRICAL: VOLTAGE: 600 V; CORE QUANTITY: 1; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 2.9 MM; ARMOR: NON ARMORED; DESIGN TYPE: MTW/THWN/THHN; CONDUCTOR: CU TINNED; APPLICATION: BREAKER; MANUF P/N: E51583; G-UL; AWG 14 CU; GASOLINA AND OIL RESISTANT; AWM: 600 V; VW-1	300m Drum	16		
	CABLE, ELECTRICAL: CORE QUANTITY: 80; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 0.5 MM2; TYPE: FLEXIBLE, STRANDED; COVERING: PVC BLACK WITH RED STRIP; RATING: 24-30 V; CONDUCTOR INSULATION: PVC; SUPPL P/N: UVG40; PLEASE NOTE: 1000 M = 1 EA	1000m Drum	16		
	CABLE, FIBER OPTIC: TYPE: MULTIMODE; FIBER COUNT: 2; FIBER SIZE: 62.5/125 MM; APPLICATION T3000 CABLES; SHEATH DIAMETER: 125MM; CABLE LENGTH: 0.5M; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	300m Drum	16		
	CABLE, ELECTRICAL: VOLTAGE: 1 KV; CORE QUANTITY: 4C; CONDUCTOR MATERIAL: ALUMINIUM; CONDUCTOR SIZE: 150 MM2; ARMOR: STL WIRE; DESIGN TYPE: BVX4RAV; COVERING: PVC SHEATH; RATING: 1 KV AC; SPECIFICATION: STANDARD: SANS 1507-3; ESKOM: 240-56063805; TEST AND CERTIFICATE REQUIREMENTS: SANS 1507-3; CONDUCTOR INSULATION: PVC; DRAWING NO: D2128 REV 1; 4 CORE STRANDED ALUMINIUM CONDUCTOR; 300M DRUM; IDENTIFICATION: INDELIBLE MNFRS. TRADEMARK & PART NO. ON ALL ITEMS AND CABLE DRUM STAMPED/MARKED	300m Drum	16		
	CABLE: TYPE: EXTENSION; DIAMETER: 3 MM; LENGTH: 3.3 M; MATERIAL: FEP INSULATED; SPECIFICATION: 3300NSV; SUPPL P/N: 3309300600000	300m Drum	16		

CONTROLLED DISCLOSURE

	CABLE: TYPE: EXTENSION; DIAMETER: 8 MM; LENGTH: 15 M; MATERIAL: METAL FLEXIBLE; SUPPL P/N: 89477-50; USED ON EFP CASE VIBRATION	300m Drum	16		
	CABLE: TYPE: PULL WIRE; DIAMETER: 6 MM; LENGTH: 300 M; MATERIAL: SS PVC COATED; MANUF P/N: CTS-PW; APPLICATION: TRIP WIRE FOR CONVEYOR BELT	300m Drum	16		
	CABLE: TYPE: TENSION; DIAMETER: 4 MM2; LENGTH: 65 M; MATERIAL: SILICON; SPECIFICATION: 28502040EA4605; SEMOFLEX POWER CABLE WITH SAFE REELING TENSION; CROSS SECTION: 5CORE; OVERALL DIAMETER: 14.3MM; NET WEIGHT: 362KG/KM; SAFE REELING TENSION: 500N; VDE6510-1000V-E195107-RU AWM STLY 10264/21897-80DEG C; FT1 SEMOFLEX DRUM: 0.6/1KV 5X4MM SQUAD F1+F; CABLE TYPE: 4 X 25A + PE 415V; SIDE PLATE DIAMETER: 1.6M; SPRING BODY DIAMETER: 90.2CM	300m Drum	16		
	WIRE, ELECTRICAL: TYPE: PANEL FLEX-PV1; COLOR: GREEN/YELLOW; STRUCTURE: MULTISTRAND; INSULATION: PVC; RATING: 600 V/1 KV 25 A AT -10 - 70 DEG C; CONDUCTOR FORM: STRANDED; CONDUCTOR SIZE: 2.5 MM2; CORE MATERIAL: CU; SPECIFICATION: SANS 1411 PART 1/2; 100 M ROLL = (1) EA	300m Drum	16		
	WIRE, ELECTRICAL: TYPE: PANEL; SIZE: 2.5 MM2; COLOR: BLUE; STRUCTURE: MULTISTRAND; MATERIAL: CU; INSULATION: PVC; RATING: 600 V/1 KV 25 A AT 10 - 70 DEG C; CONDUCTOR FORM: STRANDED; CONDUCTOR SIZE: 2.5 MM2; CORE MATERIAL: CU; SPECIFICATION: SANS 1411 PART 1/2; TYPE PANEL FLEX PV1	300m Drum	16		
	WIRE, ELECTRICAL: COLOR: WHITE; STRUCTURE: MULTISTRAND; MATERIAL: CU; INSULATION: PVC; RATING: 600 V/1 KV 25 A AT 10 - 70 DEG C; CONDUCTOR FORM: STRANDED; CONDUCTOR SIZE: 2.5 MM2; CORE MATERIAL: CU; SPECIFICATION: SANS 1411 PART 1/2; TYPE PANEL FLEX PV1	300m Drum	16		

CONTROLLED DISCLOSURE

	CABLE, ELECTRICAL: VOLTAGE: 600 V; CORE QUANTITY: 1; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 2.9 MM; ARMOR: NON ARMORED; DESIGN TYPE: MTW/THWN/THHN; CONDUCTOR: CU TINNED; APPLICATION: BREAKER; MANUF P/N: E51583; G-UL; AWG 14 CU; GASOLINA AND OIL RESISTANT; AWM: 600 V; VW-1	300m Drum	16		
	CABLE, ELECTRICAL: CORE QUANTITY: 80; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 0.5 MM2; TYPE: FLEXIBLE, STRANDED; COVERING: PVC BLACK WITH RED STRIP; RATING: 24-30 V; CONDUCTOR INSULATION: PVC; SUPPL P/N: UVG40; PLEASE NOTE: 1000 M = 1 EA	300m Drum	16		
	CABLE, FIBER OPTIC: TYPE: MULTIMODE; FIBER COUNT: 2; FIBER SIZE: 62.5/125 MM; APPLICATION T3000 CABLES; SHEATH DIAMETER: 125MM; CABLE LENGTH: 0.5M; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	300m Drum	16		
	CABLE, ELECTRICAL: VOLTAGE: 1 KV; CORE QUANTITY: 4C; CONDUCTOR MATERIAL: ALUMINIUM; CONDUCTOR SIZE: 150 MM2; ARMOR: STL WIRE; DESIGN TYPE: BVX4RAV; COVERING: PVC SHEATH; RATING: 1 KV AC; SPECIFICATION: STANDARD: SANS 1507-3; ESKOM: 240-56063805; TEST AND CERTIFICATE REQUIREMENTS: SANS 1507-3; CONDUCTOR INSULATION: PVC; DRAWING NO: D2128 REV 1; 4 CORE STRANDED ALUMINIUM CONDUCTOR; 300M DRUM; IDENTIFICATION: INDELIBLE MNFRS. TRADEMARK & PART NO. ON ALL ITEMS AND CABLE DRUM STAMPED/MARKED	300m Drum	16		
	CABLE: TYPE: EXTENSION; DIAMETER: 3 MM; LENGTH: 3.3 M; MATERIAL: FEP INSULATED; SPECIFICATION: 3300NSV; SUPPL P/N: 3309300600000	300m Drum	16		
	CABLE: TYPE: EXTENSION; DIAMETER: 8 MM; LENGTH: 15 M; MATERIAL: METAL FLEXIBLE; SUPPL P/N: 89477-50; USED ON EFP CASE VIBRATION	300m Drum	16		

CONTROLLED DISCLOSURE

	CABLE: TYPE: PULL WIRE; DIAMETER: 6 MM; LENGTH: 300 M; MATERIAL: SS PVC COATED; MANUF P/N: CTS-PW; APPLICATION: TRIP WIRE FOR CONVEYOR BELT	300m Drum	16		
	CABLE: TYPE: TENSION; DIAMETER: 4 MM2; LENGTH: 65 M; MATERIAL: SILICON; SPECIFICATION: 28502040EA4605; SEMOFLEX POWER CABLE WITH SAFE REELING TENSION; CROSS SECTION: 5CORE; OVERALL DIAMETER: 14.3MM; NET WEIGHT: 362KG/KM; SAFE REELING TENSION: 500N; VDE6510-1000V-E195107-RU AWM STLY 10264/21897-80DEG C; FT1 SEMOFLEX DRUM: 0.6/1KV 5X4MM SQUAD F1+F; CABLE TYPE: 4 X 25A + PE 415V; SIDE PLATE DIAMETER: 1.6M; SPRING BODY DIAMETER: 90.2CM	300m Drum	16		
	WIRE, ELECTRICAL: TYPE: PANEL FLEX-PV1; COLOR: GREEN/YELLOW; STRUCTURE: MULTISTRAND; INSULATION: PVC; RATING: 600 V/1 KV 25 A AT -10 - 70 DEG C; CONDUCTOR FORM: STRANDED; CONDUCTOR SIZE: 2.5 MM2; CORE MATERIAL: CU; SPECIFICATION: SANS 1411 PART 1/2; 100 M ROLL = (1) EA	300m Drum	16		
	TRUNKING: TYPE: CABLE; DIMENSIONS: WD 41 MM X LG 5M X HT 41 MM; MATERIAL: STL; REFERENCE NO: P1000; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	300m Drum	16		
	WIRE, ELECTRICAL: TYPE: PANEL; SIZE: 2.5 MM2; COLOR: BLUE; STRUCTURE: MULTISTRAND; MATERIAL: CU; INSULATION: PVC; RATING: 600 V/1 KV 25 A AT 10 - 70 DEG C; CONDUCTOR FORM: STRANDED; CONDUCTOR SIZE: 2.5 MM2; CORE MATERIAL: CU; SPECIFICATION: SANS 1411 PART 1/2; TYPE PANEL FLEX PV1	300m Drum	16		
	WIRE, ELECTRICAL: COLOR: WHITE; STRUCTURE: MULTISTRAND; MATERIAL: CU; INSULATION: PVC; RATING: 600 V/1 KV 25 A AT 10 - 70 DEG C; CONDUCTOR FORM: STRANDED; CONDUCTOR SIZE: 2.5 MM2; CORE MATERIAL: CU; SPECIFICATION: SANS 1411 PART 1/2; TYPE PANEL FLEX PV1	300m Drum	16		

CONTROLLED DISCLOSURE

WIRE, ELECTRICAL: COLOR: BLACK; STRUCTURE: MULTISTRAND; MATERIAL: CU; INSULATION: PVC; RATING: 600 V/1 KV 25 A AT 10 - 70 DEG C; CONDUCTOR FORM: STRANDED; CONDUCTOR SIZE: 2.5 MM2; CORE MATERIAL: CU; SPECIFICATION: SANS 1411 PART 1/2; TYPE PANEL FLEX PV1	300m Drum	16		
KIT, CABLE JOINT: CABLE SIZE: 500 MM2; TYPE: TRANSITIONAL; MATERIAL: XPLE; SINGLE CORE; 6.35/11KV	Each	500		
KIT, CABLE JOINT: CABLE SIZE: 185 MM2; POTENTIAL: 6.35/11 KVDC; MATERIAL: XLPE; 3 CORE	Each	500		
CABLE, ELECTRICAL: CONDUCTOR SIZE: 4 MM2; CONDUCTOR: 1 CORE, CU STRANDED; COVERING: SILICONE WHITE/YELLOW; LENGTH: 100 M; CONDUCTOR INSULATION: SILICON	Each	500		
KIT, CABLE JOINT: CABLE SIZE: 500 MM2; POTENTIAL: 22 KVDC; MATERIAL: XLPE; SINGLE CORE	Each	500		
KIT, CABLE JOINT: CABLE SIZE: 50 MM2; POTENTIAL: 6.35/11 KVDC; MATERIAL: XLPE; 3 CORE	Each	500		
KIT, CABLE JOINT: CABLE SIZE: 500 MM2; POTENTIAL: 6.35/11 KVDC; MATERIAL: XLPE; 3 CORE	Each	500		
KIT, CABLE JOINT: CABLE SIZE: 70 MM2; POTENTIAL: 6.35/11 KVDC; MATERIAL: XLPE; 3 CORE	Each	500		
KIT, CABLE JOINT: CABLE SIZE: 300 MM2; POTENTIAL: 6.35/11 KVDC; MATERIAL: XLPE; 3 CORE	Each	500		
KIT, CABLE JOINT: CABLE SIZE: 120 MM2; POTENTIAL: 6.35/11 KVDC; MATERIAL: XLPE; 3 CORE	Each	500		
KIT, CABLE JOINT: CABLE SIZE: 95 MM2; POTENTIAL: 6.35/11 KVDC; MATERIAL: XLPE; 3 CORE	Each	500		

CONTROLLED DISCLOSURE

	KIT, CABLE JOINT: CABLE SIZE: 150 MM2; TYPE: ELECTRICAL; CONDUCTOR: AL/CU; POTENTIAL: 11 KVDC; CABLE TYPE: PILC; MATERIAL: PAPER LEAD; 3 CORE	Each	500		
	WIRE, ELECTRICAL: TYPE: STANDARD, HOOK-UP PANEL; INSULATION: PVC; CONDUCTOR FORM: (7) STRAND; CONDUCTOR SIZE: 0.22 MM2; CORE MATERIAL: CU; LENGTH: 100 M	100m Roll	50		
	WIRE, ELECTRICAL: TYPE: STANDARD, HOOK-UP PANEL; COLOR: GRAY; INSULATION: PVC; CONDUCTOR FORM: (7) STRAND; CONDUCTOR SIZE: 0.22 MM2; CORE MATERIAL: CU; LENGTH: 100 M	100m Roll	50		
	WIRE, ELECTRICAL: TYPE: STANDARD, HOOK-UP PANEL; COLOR: BROWN; INSULATION: PVC; CONDUCTOR FORM: (7) STRAND; CONDUCTOR SIZE: 0.22 MM2; CORE MATERIAL: CU	100m Roll	50		
	WIRE, ELECTRICAL: TYPE: STANDARD, HOOK-UP PANEL; COLOR: WHITE; INSULATION: PVC; CONDUCTOR FORM: (7) STRAND; CONDUCTOR SIZE: 0.22 MM2; CORE MATERIAL: CU; LENGTH: 1000 M = EA	1000m	10		
	WIRE, ELECTRICAL: TYPE: BARE SOLID HEAVY DUTY; CONDUCTOR SIZE: 25 SWG; CORE MATERIAL: CU	300m Drum	16		
	CABLE PVC SWA CU 25MM X SINGLE CORE; VOLTAGE RATING: 600/1000V	300m Drum	16		
	CABLE PVC SWA CU 35MM X SINGLE CORE; VOLTAGE RATING: 600/1000V	300m Drum	16		
	CABLE PVC SWA CU 35MM X 4CORE; VOLTAGE RATING: 600/1000V	300m Drum	16		
	CABLE PVC SWA CU 70MM X 4CORE; VOLTAGE RATING: 600/1000V	300m Drum	16		
LOW VOLTAGE CABLES					
	1.5MM2 X 3 CORE (BVX03CCV)	300m Drum	16		
	1.5MM2 X 4 CORE (BVX04CCV)	300m Drum	16		
	1.5MM2 X 12 CORE (BVX12CCV)	300m Drum	16		

CONTROLLED DISCLOSURE

	2.5MM2 X 2 CORE (BVX02DCV)	300m Drum	16		
	2.5MM2 X 3 CORE (BVX03DCV)	300m Drum	16		
	2.5MM2 X 4 CORE (BVX04DCV)	300m Drum	16		
	2.5MM2 X 7 CORE (BVX07DCV)	300m Drum	16		
	2.5MM2 X 12 CORE (BVX12DCV)	300m Drum	16		
	2.5MM2 X 19 CORE (BVX19DCV)	300m Drum	16		
	2.5MM2 X 37 CORE (BVX37ECV)	300m Drum	16		
	4MM2 X 2 CORE (BVX02ECV)	300m Drum	16		
	4MM2 X 3 CORE (BVX03ECV)	300m Drum	16		
	4MM2 X 4 CORE (BVX04ECV)	300m Drum	16		
	4MM2 X 7 CORE (BVX07ECV)	300m Drum	16		
	4MM2 X 19 CORE (BVX19ECV)	300m Drum	16		
	6MM2 X 4 CORE (BVX04FCV)	300m Drum	16		
	10MM2 X 4 CORE (BVX04GCV)	300m Drum	16		
	16MM2 X 3 CORE (BVX03HCV)	300m Drum	16		
	16MM2 X 4 CORE (BVX04HCV)	300m Drum	16		
	25MM2 X 4 CORE (BVX04KCV)	300m Drum	16		
	35MM2 X 4 CORE (BVX04LCV)	300m Drum	16		
	50MM2 X 4 CORE (BVX04MCV)	300m Drum	16		
	70MM2 X 4 CORE (BVX04NCV)	300m Drum	16		
	95MM2 X 4 CORE (BVX04PCV)	300m Drum	16		
	120MM2 X 3 CORE (BVX03QCV)	300m Drum	16		
	120MM2 X 4 CORE (BVX04QCV)	300m Drum	16		
	150MM2 X 3 CORE (BVX03RCV)	300m Drum	16		
	150MM2 X 4 CORE (BVX04RCV)	300m Drum	16		

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	185MM2 X 4 CORE (BVX04SCV)	300m Drum	16		
	240MM2 X 3 CORE (BVX03TCV)	300m Drum	16		
	240MM2 X 4 CORE (BVX04TCV)	300m Drum	16		
	300MM2 X 4 CORE (BVX04UCV)	300m Drum	16		
<p style="text-align: center;">CABLE TRAY</p> <p style="text-align: center;">Cold drawn high tensile galvanized wire mesh cable tray (O-L GRIDSPAN GS 50 x 50) fixed in all positions, etc., to all heights above floor level, etc and to all areas. Complete with splice clamp sets, hold down brackets, bolts, nuts and washers, etc.</p>					
	100MM X 75MM X 3M	Each	2000		
	150MM X 75MM X 3M	Each	2000		
	300MM X 75MM X 3M	Each	2000		
	600MM X 75MM X 3M	Each	2000		
<p style="text-align: center;">COLD DRAWN HIGH TENSILE GALVANISED WIRE MESH CABLE</p> <p style="text-align: center;">Tray fittings / accessories normal bending radius.</p>					
	100MM WIDE X 75MM 90 DEGREE HORIZONTAL BEND	Each	2000		
	100MM WIDE X 75MM 90 DEGREE EXTERNAL/INT BEND	Each	2000		
	150MM WIDE X 75MM 90 DEGREE HORIZONTAL BEND	Each	2000		
	150MM WIDE X 75MM 90 DEGREE EXTERNAL/INT BEND	Each	2000		
	300MM WIDE X 75MM 90 DEGREE HORIZONTAL BEND	Each	2000		
	300MM WIDE X 75MM 90 DEGREE EXTERNAL/INT BEND	Each	2000		
	600MM WIDE X 75MM 90 DEGREE HORIZONTAL BEND	Each	2000		
	600MM WIDE X 75MM 90 DEGREE EXTERNAL/INT BEND	Each	2000		
	600MM WIDE X 75MM TEE	Each	2000		

CONTROLLED DISCLOSURE

CABLE SUPPORT SYSTEM					
Galvanized steel channel forming frame support complete with bolts, spring nuts, nuts and washers, fixed in all positions, etc., to all heights above floor level, etc and to all areas.					
	41.3MM X 41.3MM X 2.5MM THICK (O-L 1000)	Each	2000		
	82.6MM X 41.3MM X 2.5MM THICK (O-L 1001)	Each	2000		
	41.3MM X 41.3MM X 2.5MM THICK (O-L 1000) - COVERS F1184	Each	2000		
CABLE SUPPORT SYSTEM					
Galvanized steel single arm cantilever with tongue type bracket complete with bolts, spring nuts, nuts and washers, etc.					
	650MM LONG X 89MM HIGH (O-L 251-650)	Each	2000		
GALVANIZED CONDUIT					
Surface mounted and fixed in all positions, etc., to all heights above floor level, etc and to all areas.					
	20MM DIAMETER	Each	2000		
	25MM DIAMETER	Each	2000		
	50MM DIAMETER	Each	2000		
GALVANIZED THREADED ROD					
	12 MM THREADED RODS WITH NUTS AND WASHERS	Each	2000		
WIRING CHANNELS					
Galvanized steel channel complete with galvanized cover surface mounted and fixed in all positions, etc., to all heights above floor level, etc and to all areas.					
	41.3 X 41.3 X 1.6MM THICK (O-L 2000)	Each	2000		
	76.2 X 76.2 X 2.1MM THICK (O-L 8000)	Each	2000		
STEEL					
Painted steel for support of racking, including all necessary fixing, bolts, nuts, washers, welding, etc and holes, notches, etc fixed in all positions, etc., to all heights above floor level, etc and to all areas.					
	25MM X 25MM X 5MM ANGLE SECTION	Each	2000		
	50MM X 50MM X 6MM ANGLE SECTION	Each	2000		

CONTROLLED DISCLOSURE

	76MM X 38MM X 6MM CHANNEL IRON	Each	2000		
EARTHING CABLES					
	16MM ² BCEW	m	2000		
	70MM ² BCEW	m	2000		
	150MM ² KWENA	m	2000		
	400MM ² KWENA LUGS	m	2000		
	4MM ² G/Y PVC COVERED	m	2000		
	6MM ² G/Y PVC COVERED	m	2000		
	10MM ² G/Y PVC COVERED	m	2000		
	16MM ² G/Y PVC COVERED	m	2000		
	70MM ² G/Y PVC COVERED	m	2000		
	4MM ² BLACK PVC COVERED	m	2000		
	6MM ² BLACK PVC COVERED	m	2000		
	10MM ² BLACK PVC COVERED	m	2000		
	16MM ² BLACK PVC COVERED	m	2000		
	70MM ² BLACK PVC COVERED	m	2000		
	50 X 3 MM FLAT COPPER	m	2000		
CABLE MARKER, SLABS AND MARKER TAPE					
	DANGER TAPE	Each	1500		
	CABLES SLABS	Each	1500		
	ROUTE MARKERS	Each	1500		
	ROAD CROSSING 12M	Each	1500		
	PVC SLEEVES 110 MM X 6M	Each	1500		

CONTROLLED DISCLOSURE

The following are the *Supplier's* requirements:

- a. The *Supplier* will ensure that the correct spare is supplied and will replace or be liable for damage at his/her cost if the incorrect or defective spare/s is supplied. The costs may include, but not limited to, repairs and/or replacement of a defective or incorrect spare.
- b. The *Employer's* (i.e., Eskom Holdings SOC) acceptance of delivered spare/s does not absolve the *Supplier* of the liability to supply the correct and/or defect free spare.
- c. The *Supplier* may, at the *Employer's* discretion, be given access to the plant to verify the information of the installed spare.
- d. The spare must be the same as specified on this works information and the part number will also be used to perform quality control checks.
- e. The *Employer* may at his/her discretion make the *Employer's* Engineer or employees or *others* made available to the *Supplier* for the purpose of soliciting additional information or verifying information as the need arises.
- f. The *Supplier* will supply any additional information such as brochure, general arrangement drawing, test certificates, detailed specification (data sheet for each and every item quoted), etc.
- g. The *Supplier* shall supply, disposal, preservation, and storage procedure(s) as part of the tender deliverables.
- h. **“Estimated Spare Quantities to be Procured over Five-Year Period”, indicated by the *Employer* in the Appendix A as one of the table subheadings, is the estimated number the *Employer* may require the *Supplier* to supply over the contract period. The *Supplier* may only supply the quantity as specified by the *Employer* in the specific order instruction.**
- i. Complete price breakdown must be supplied with the quotation and must include the cost of transport to Camden Power Station. The quotation will be based on items listed in Appendix A. Methodology use to quote for transportation of procured items must be defined and quantified.
- j. Spares will be opened for inspection, counting and quality control check at the *Employer's* stores.
- k. The *Employer* has provided the Bill of Material table and copies of individual spares DCF's to assist the *Supplier* to meet the requirements of the Work to be performed by the *Supplier*.
- l. Where the DCF has already been fully or partially populated by the *Employer*, the *Supplier* shall verify the correctness of the information and complete partially populated DCF's.
- m. The *Employer* may make clarification sessions available to either prospective *Supplier(s)* to further assist the prospective *Supplier/s* to meet the requirements of the Work to be performed by the *Supplier*.

Where the *Employer* has entered into a National Framework agreement for the supply of any listed items in Appendix A before this contract is in place, those items shall not form part of the contract. The following items will be required as tender deliverables and the *Supplier* shall be evaluated on them:

- a. Use Appendix A to compile a quotation for the tendered items/components. The quotation must include delivery costs as stipulated above.
- b. Confirmation that the items to be supplied will be the same as the items listed in Appendix A. Items different from the required spares will only be accepted where the item is approved similar.

CONTROLLED DISCLOSURE

The Supplier must inform the Employer in writing as part of the tender deliverables to indicate proposed alternative spares. The Employer to be provided with all technical information on the proposed alternative spare to approve the alternative spare as acceptable. Similar spares to be interchangeable with original spares and any modifications required when installing the alternative spare to be indicated to the Employer.

- c. The Employer reserves the right to reject any populated DCF sections if the information is not deemed sufficient.
- d. The Supplier shall supply the preservation procedures for all the items tendered for. These shall include disposing, handling, storage, and transportation procedures. Group preservation of similar items is acceptable. The procedures may be supplied after order placement. However, confirmation must be provided as a tender deliverable.
- e. The Supplier's proven track record in supplying listed items or similar items shall be sourced to ensure that the Supplier can supply the items. It is also required that there be technical expertise on the said components to ensure proper diagnosis of any faults that may be experienced on the tendered components.
- f. Supplier to notify the Employer about the warranty periods for all tendered components/items and the time it will take to deliver the items from the date of order placement.
- g. Supplier to provide data sheets for all tendered spares as part of the tender documentation. The data sheets to be comprehensive enough to give all relevant information that describe a product.

The *Supplier* shall provide shelf-life duration for all tendered items

3.3 Documentation

The following are the *Supplier's* requirements:

- a) The *Supplier* will supply any additional information such as brochure, general arrangement drawing, certificates, detailed specification, data sheet, Settings Document for programmable electronic cards etc.
- b) The *Supplier* provides the *Employer* with additional spares information and verifies information required in the data capturing forms (DCF).
- c) The *Supplier* shall supply preservation and storage procedure/s, where applicable.
- d) The Employer may make clarification sessions available to either prospective *Supplier/s* to further assist the prospective *Supplier's* to meet the requirements of the supply scope delivered by the *Supplier*.

3.4 Acceptance of Spares

3.4.1 Spares Identification

Appendix A herein and attached to this document is a list of all the spares to be procured under this SOW. This list corresponds to the provided electronic copy of the DCF's or SAP Specification Printout that contain more information about the required spares.

Each spare is identifiable by means of an Eskom SAP Material number (as is used in the Power Station), part description, OEM and/or OEM part number.

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3.4.1.1 Spares Which are Not Stock

In most cases engineering will issue maintenance with an engineering instruction to modify or to replace the existing spares permanently or as a test purposes.

Spares which are not part of the BOQ will be procured as nonstock item. The supplier will be requested (if not an OEM) to send the Employer a quotation (from OEM) for the specific spares together with his/her quotation with an agreed markup percentage figure. The Employer will approve the quotation and give the Supplier a go ahead to procure material.

3.4.2 Obsolescence

- a) The Supplier shall inform the Employer immediately where spares are found to be obsolete before the alternative spares is supplied.
- b) The Supplier shall indicate this to the Employer and indicate viable alternatives thereof.
- c) The Employer will review the alternatives and advice on the acceptance/rejection of the alternative thereof prior to the spares being delivered onsite. Point 3.4.1.1 will then apply.

3.4.3 Spares Quantities

- a) The estimated spares quantities to be provided as stipulated in APPENDIX A: Camden Power Station Electrical Cables and Earthing Spares BOQ.

3.4.4 Design, Manufacturing and Testing

Unless an alternative spare is proposed the required spares shall be the same, in all respects, as the original components. The spares shall also conform to the same specifications as the original components. This includes all aspects such as design, dimensions, materials and material specifications, manufacturing and manufacturing processes, testing, and operating and storage specifications.

3.4.5 Replacement Parts Upgraded/Modified

Where equipment or spares, including the whole assembly, have been upgraded/modified, the *Supplier* shall indicate this to the *Employer* as part of the tender. The *Employer* shall be made aware immediately where the upgrade/modification to the component is only identified subsequent to the tender being issued. The detailed compatibility to the existing component shall be indicated including changes required to fit the upgraded/modified spare. This includes hardware, firmware, and software upgrade/modification. Approved alternative components shall be accepted provided they comply to all technical & commercial requirements.

If the components to be supplied will be obsolete, or envisaged to be obsolete, in the 4 years after tender being issued, the *Supplier* shall indicate this to the *Employer* and indicate viable alternatives thereof. **Point 3.4.1.1 will apply.**

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3.4.6 Packaging

- i. All supplied spares shall be packaged in such a manner that they will be transported and stored without damage. This includes preventing damage due to moisture ingress, dust, and foreign objects.
- ii. Different spare types shall be packaged separately such that each spare type can be stored separately. Packaging shall be such that the spare can be identified without opening the packaging. Packaging shall be of material that will not be damaged, to an extent possible, by harsh weather conditions during transportation. If that is not possible, then the packaging shall be protected against such conditions.
- iii. Where possible, packaging to be such that procured spares can be positively identified through the packaging. Where this is not possible, the packaging to be such that it allows opening and closing of packaging and still maintain the packaging integrity thereafter.
- iv. Delivery packaging shall include as a minimum the following details:
 - a) Purchase Order Number
 - b) Part Description
 - c) Part number
 - d) Eskom SAP Material number
 - e) Drawing number, where applicable
 - f) Physical address of Camden Power Station and the *Supplier*
 - g) Contact details of the *Supplier*
 - h) Delivery note number

The above listed details shall be clearly labelled on the packaging.

3.4.7 Transportation

Transportation of all spares shall be conducted with due regard of the sensitivity of the units and in such a manner that spares are suitably protected. All possible care must be taken to ensure that the components are not subjected to undue rough handling, vibration, humidity, excessive temperatures, or abuse. When courier service is used for transportation, the courier services service provider shall be alerted to the nature of the content of the packages and instructed to handle with care. Labels shall be used to indicate the fragile nature of the items.

After hours or night deliveries shall be affordable as far as practicable possible. If such a need arises and approval shall be obtained, all risks and safety controls shall be in place and supported by both parties (Supplier and Employer).

3.4.8 Quality Control of Spares

- a) No incorrect, damaged, or faulty spares will be accepted.
- b) All the spares will be inspected and approved by Eskom Camden PS before payment can be processed.

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- c) Eskom template Data Capturing Forms (DCF) information must be supplied and must meet an acceptable level. (All Mandatory Fields information must be supplied)
- d) Where applicable; test certificates, material certificate, manuals, data sheet, electronic cards programmed certificates and signature shall be provided.

3.4.9 Information to be Provided to the Supplier

The *Supplier* may be provided with either complete or partially complete electronic Data Capture Form (DCF) for each spare required. The *Supplier* is required to ensure that the correct information is captured on the DCF's by reviewing the information.

The DCF's are required by the Purchaser's Material Management System to be able to book the item in the store. The information should also be sufficient to procure the correct spares in future. Most of the DCF's have been populated by the *Purchaser* where information was available. This information may not be correct and needs to be reviewed and verified/corrected as part of the *Services*.

The DCF's may be provided in Microsoft Word format. The *Supplier* needs to ensure the 'Track Changes' function is selected 'on' so that any changes to the existing information as well as inserted information can easily be identified and tracked. The following information needs to be provided as detailed as possible on the DCF's and a document that lists the specific DCF with the specific fields that were updated.

- a) Verify the existing information that is already populated on the DCF's.
- b) Populate/verify all mandatory fields on the DCF's.
- c) Supply additional information in the field "Free Format Text" or "Purchase order text" on the DCF's. This includes:
 - The standards or specification that the product must conform to.
 - Add any spares information which has been omitted, which is deemed relevant for spares identification, packaging and protection requirements during transportation and storage.
 - The Quality Control requirements for manufacturing and testing of the product to ensure that the spares conform to the correct specifications or standards, including certificates and test results, that is required with delivery of the goods.
- d) Supply any other additional information that has not been specified on the DCF's but necessary for storage, preservation, installation, and utilisation of spares where applicable. Such information includes brochures, technical data, etc. These DCF's with the added information needs to be made available electronically to the employer.
- e) Supply any other additional information that has not been specified on the DCF's but necessary for storage, preservation, installation, and utilisation of spares where applicable. Such information includes brochures, technical data, etc.

3.4.10 Guarantee of Delivered Spares

All delivered spares shall come with at least a one-year guarantee period starting from the *delivery date*.

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3.4.11 Insurance of the Goods

Insurance of the goods to be the responsibility of the *Supplier* until *delivery*.

4. Acceptance

This document has been seen and accepted by:

Full Name and Surname	Designation

5. Revisions

Date	Rev.	Compiler	Remarks
July 2025	01		Initial Draft

6. Development Team

The following people were involved in the development of this document:

- Electrical Engineering
- Electrical Maintenance

7. Acknowledgements

Not Applicable.

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Appendix A – Camden Power Station Electrical Cables and Earthing Spares BOQ

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Appendix B – Eskom Standard Code for Instrument Cables

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Appendix C – Eskom Standard Code for Power and Electrical Control Cables

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