

	Works Information	Medupi Power Station
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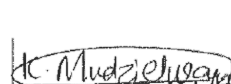
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1. Introduction

Medupi Power Station is designed to be a highly efficient and effective coal fired power station supplying power to the South African National Grid. Medupi Power Station is also by law a National Key Point and requires the need for proper access control, hence the required electrified perimeter security fence is a necessity.

The purpose of this document is to provide a comprehensive list for all electric fence related spares required for Medupi Power Station and will outline the works information of the procurement of spare components of the abovementioned electric fence systems. This will include, but not limited to, the scope for supplying spares with technical information and supply of spare for 5 years.

2. Supporting Clauses

2.1 Scope

This document serves to outline the requirements for the supply of maintenance spares and related documentation for the electric fence installed at Medupi Power Station.

2.1.1 Purpose

The purpose of this document is to provide guidance to the contractor and Employer for the duration of the contract (Five years).

2.1.2 Applicability

This works information is only applicable to the maintenance spares procurement of the electric fence system at Medupi Power Station.

2.1.3 Effective date

This works information would be effective after it has been authorised.

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] ISO 9001 Quality Management Systems
- [2] 240-76960420 Guideline for Spares Procurement Technical Evaluation and Quality inspection
- [3] 474-132 GBE Plant Engineering Baseline Change Management
- [4] 240-85631147 Medupi Power Station Electric Fence Spares Strategy

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2.2.2 Informative

- [5] 32-1033 Eskom Procurement and Supply Chain Management Policy
- [6] 32-1034 Eskom Procurement and Supply Chain Management Procedure
- [7] Eskom Standard 34-402 Standard for Non-lethal Energised Perimeter Detection System

2.3 Definitions

Definitions	Description
Supplier	An enterprise that provides goods or services. For the purpose of this Works Information, the Supplier may refer to the OEM, OEM approved distributor or Supplier appointed to implement the works herein.
Employer	Company that is a recipient of a good or service provided by a Supplier under a purchase order or contract of sale. For the purpose of this Works Information, the Employer is Eskom Holdings SOC Medupi Power Station or representative thereof.
Electric Fence	An electrified barrier consisting of one or more bare conductors erected against the trespass of persons or animals.
Electric Fence Energizer	Electrical machinery arranged so as to deliver a periodic non-lethal amount of electrical energy to an electric fence connected to it.

2.4 Abbreviations

Abbreviation	Description
CDS	Climb Detection System
DCF	Data Capture Form
HV	High Voltage
LCD	Liquid Crystal Display
M	Meter
OEM	Original Equipment Manufacturer
QC	Quality Control
RFI	Request for Information

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Abbreviation	Description
RFQ	Request for Quotation
UCLF	Unplanned Capability Loss Factor
WI	Works Information

2.5 Roles and Responsibilities

Supplier

- a) Supply procured spares as requested by the Employer.
- b) 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.
- c) Provide spares technical information in accordance with this Works Information.
- d) Timeously inform the Employer of any delays or when outstanding or additional information from the Employer is required.
- e) Responsible to ensure that a quality product is delivered.
- f) Responsible to ensure that every effort is made to keep to the agreed program and plan.
- g) Provide all required technical datasheets and/or product brochures.
- h) Conform to all the other requirements stipulated in this document.
- i) Supply all the necessary test sheets/results, where applicable.
- j) Invite the Employer or representative thereof three (3) working days in advance for witness/hold points, if applicable, as agreed.
- k) Supply the software and other maintenance tools required for maintenance purposes, where applicable.

Medupi Power Station Electrical Engineering Electric Fence System Engineer

- a) Provide all necessary information to assist in spares procurement.
- b) Perform Quality Checks on procured spares and accompanying documentation

Medupi Power Station Materials Management Department

- a) Ensure that the Service is provided as per the SOW and manage the contract for the supply of the spares.

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Medupi Power Station Electrical Maintenance

- a) Perform inspections and QC of spares upon delivery.
- b) Ensure spare items are stored properly by Materials Management as per relevant storage recommendations by the specific manufacturers.

2.6 Process for Monitoring

The document may be revised should some of the components listed on Appendix A modified and/or become obsolete and must be in line with the Eskom Documentation Management Standard, 32-644.

2.7 Related/Supporting Documents

[8] Medupi Power Station Electric Fence Spares Strategy (240-85631.147)

3. WORK TO BE PERFORMED BY SUPPLIER

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 exactly the same (e.g. same Part Number) as specified on this works information and the part number will also be used to perform quality control checks. Notwithstanding the stipulated condition that the Supplier is responsible for verifying the correctness of the spares information provided by the Employer in relation to the existing installed component. This may include the Supplier consulting the original Supplier of the spare to ensure correctness of information provided by the Employer. Where a part has become obsolete, the Supplier will offer a suitable alternative with all the documentations as specified within this Works Information to be submitted to the Employer for acceptance before delivery.
- e) The Employer may at his/her discretion make the Employer's Engineer or employees or others 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, etc.

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- g) The Supplier shall supply preservation and storage procedure(s), where applicable.
- h) "Estimated Spare Quantities to be Procured over Five (5) Year Period", indicated by the Employer in the attached table as one of the 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 individual order instruction.
- i) Where the spare requires testing, the Supplier will inform the Employer to invite or make available the Employer's System Engineer to witness the tests.
- j) Should the Employer be dissatisfied with all or certain aspects relating to a specific spare tests (including but not limited to suspected inferior quality or non-compliance) the Supplier will make good, rectify the faults or supply a new spare at his/her cost.
- k) Spares will be opened for inspection, counting and quality control check at the Employer's stores.
- l) The Employer has provided the Bill of Material table to assist the Supplier to meet the requirements of the Work to be Performed.
- m) All refurbishable spares sent back to the Suppliers for repairs shall be repaired by a service provider accredited by the Original Equipment Manufacturer to perform such repairs. A copy of an accreditation certificate, repairs reports, and test reports shall accompany the equipment on delivery.

Note! 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.

3.1 SPECIFICATION OF THE SPARES

3.1.1 Spares Identification

Appendix A lists all the spares to be procured under this works information. Each spare is identifiable by means of a Material number (as is used in the Power Station), part description, OEM and/or OEM part number. Where the information available on the spares list in Appendix A is not sufficient to positively identify the applicable spare, the Supplier shall notify the Employer such that the Employer can assist the Supplier in identifying the correct spare.

The Supplier shall be liable to replace a supplied spare that is found to be defective within the guarantee period.

3.1.2 Information to be provided.

Accompanying this Works Information is the list of spares with the information deemed enough to procure the correct spares as required.

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The following information to be provided with the spares:

- a) Documentation detailing the technical characteristics of the procured spare item. This may be in the form of data sheet or brochure. The Employer reserves the right to reject the documentation if it is not deemed sufficient.
- b) Any other additional information that has not been specified on the Employer's SPEC/ WI but necessary for storage, installation, and utilisation of spares where applicable.
- c) Supply preservation and storage procedures of goods, where applicable.
- d) Any spares information which has been omitted which is deemed relevant for spares identification, storage, maintenance, etc.
- e) In instances where the Supplier uses another company, other than the item OEM, to provide required information, this to be declared in advance to the Employer.
- f) Shelf life of all spares to be specified as part of provided information.
- g) Valid OEM letter stating that the Supplier is the authorised distributor or repairer of the equipment.

3.1.3 Spares Quantities

The estimated spares quantities to be provided as stipulated in APPENDIX A as and when required over the 5-year contract duration.

3.1.4 Design, Manufacturing and Testing

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, materials and material specifications, manufacturing and manufacturing processes, testing and operating and storage specifications.

3.1.5 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 after the tender being issued. The detailed compatibility to the existing component shall be indicated. This includes hardware, firmware and software upgrade/modification.

If the components to be supplied will be obsolete, or envisaged to be obsolete, in the 5 years after tender being issued, the Supplier shall indicate this to the Employer and indicate viable alternatives thereof.

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3.1.6 Packaging

All supplied spares shall be packaged in such a manner that they may be transported and stored for an extended period without resulting in damage to the packaged components. This includes preventing damage due to moisture ingress, especially for electronic components. Wherein possible, silica gel/desiccant may be included to ensure protection against moisture for at least 3 months. However, this inclusion should not lead to damage to the component.

Modules / sensitive electronic components shall always be suitably packed in anti-static material and other protective packaging such that it is protected against static, EMC and handling hazards.

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.

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.

Delivery packaging to have the following details on it:

- Order number
- Physical address of Medupi Power Station
- Delivery note number

3.1.7 Transportation

Transportation of all spares shall be conducted with due regard to 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.

3.1.8 Exclusions

The following shall be noted as exclusions as per this works information:

- The Supplier shall not supply offloading facilities during delivery of spares.
- The Supplier shall not be responsible for the storage of spares after acceptance at delivery by Employer.
- Subcontracting shall not be permitted, unless declared and accepted prior to contract placement.

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3.1.9 Acceptance of Spares

- No incorrect, damaged or faulty spares will be accepted.
- All the spares will be inspected before payment could be processed.
- Where applicable; test certificates, material certificate, manuals, data sheet and signature shall be provided as required.
- Where spares in Appendix A have been upgraded/modified/are obsolete, the *Supplier* shall indicate this to the *Employer* and recommend a suitable replacement. Datasheets/specifications of the replacement shall be submitted to Employer for acceptance.

3.2 CONSTRAINTS ON HOW THE SUPPLIER PROVIDES THE GOODS

3.2.1 Work to be done by the Delivery date

All required spares to be delivered to the Employer 4 weeks from the day the purchase order is placed by the Employer. The Employer may request, in writing, that a spare be expedited quicker if its delivery in 4 weeks may lead to a delay that may result in undesirable consequences (loss of revenue and/or safety to personnel or environment) to the Employer.

3.2.2 Documentation Control

The information for spares to be provided will either be in electronic format and/or hard copy. Information provided to be documented in such a manner that the information for each spare will be easily identifiable.

3.2.3 Quality Assurance Requirements

The spares to be provided shall conform to all quality assurance requirements that will be defined at contracting phase.

3.2.4 Guarantee of Delivered Spares

All delivered spares shall come with a 12-months guarantee period starting from the delivery date. This also applies to refurbished spares which has been repaired by the Supplier.

3.2.5 Insurance of the Goods

Insurance to be the responsibility of the Supplier until delivery.

4. Acceptance

This document has been seen and accepted by:

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5. Revisions

Date	Rev.	Compiler	Remarks
February 2025	4	M Mukwevho	Removed services which was 3.1.10
May 2024	3	T Majozi	BOM Update
September 2019	2	SJ Malakapatlo	BOM Update
February 2015	1	SJ Malakapatlo	First issue

6. Development Team

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

- Thembelihle Majozi

7. Acknowledgements

Thembelihle Majozi

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Appendix A – Bills of Material/Electric Fence Spares List

Material Number	Equipment Short description	Full Description	Unit of Measure	Required Quantity
220640	CONN LUG:SPADE;M6	CONNECTOR, LUG: TYPE: SPADE; HOLE SIZE: M6; MANUF P/N: 130625; YELLOW	EA	1000
607807	BATT:DIVBAT7.5;BACKUP;12 V;7 AH;BS 120	BATTERY: TYPE: BACKUP; POTENTIAL: 12 V; CURRENT CAPACITY: 7 AH; SPECIFICATION: BS 120; OEM P/N: DIVBAT7.5	EA	60
607808	MODULE COMM:BS101IO;UNIVERSAL I/O;O/P 12	MODULE, COMMUNICATION: TYPE: UNIVERSAL I/O; OUTPUT: 12 VDC; APPLICATION: CDS INTERFACE MODULE; HARDWARE: BS 120 ENERGIZERS; SOFTWARE: WINDOWS PROGRAM; OEM P/N: BS101IO; RS485 TTL	EA	20
607809	WIRE ELECT:ST109; FENCE COMPONENTS;1.6 MM;NONE	WIRE, ELECTRICAL: TYPE: FENCE COMPONENTS; SIZE: 1.6 MM; COLOR: GRAY/SILVER; STRUCTURE: SOLID WIRE; MATERIAL: ALUMINIUM; INSULATION: NONE; RATING: 33 OHM/KM; CORE MATERIAL: AL ALLOY 5019 H18; LENGTH: 1 KM; OEM P/N: ST109	Metre	25000m
607810	SENSOR:CLIMB DETECTION;80 M;CDSSENSOR	SENSOR: TYPE: CLIMB DETECTION; RANGE: 80 M; RATING: 8-26 VDC 20 MA AT 24 VDC; ELECTRICAL CONNECTION: FIBER OPTICAL CABLE; REFERENCE NO: CDSSENSOR	EA	50
607811	TESTER:TEST ENERGIZER;18 KV/M;7.5 W	TESTER: TYPE: TEST ENERGIZER; RANGE: 18 KV/M; SPECIFICATION: SABS IEC 60335-2-67-1997; POWER: 7.5 W; REFERENCE NO: BS100T	EA	25
609744	DIVERTER:HV LIGHTING	DIVERTER: TYPE: HV LIGHTING; FEATURES: ENERGIZER PROTECTION BS120; APPLICATION: ELECTRIC FENCE; THE ITEM IS POSITIONED BETWEEN THE FENCE AND THE	EA	25

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Material Number	Equipment Short description	Full Description	Unit of Measure	Required Quantity
		ENERGIZER ON ITS OWN EARTH CIRCUIT; RANGE UP TO 14 KV AT 8 JOULE		
609745	CONVERTER SGNL:RS 485 TO 2 WIRE;I/P 12	CONVERTER, SIGNAL: TYPE: RS 485 TO 2 WIRE; INPUT: 12 VDC; OUTPUT: 18 VDC; POWER SOURCE: 220 VAC; APPLICATION: GENERATOR PROTECTION SYSTEM; MOUNT: CLIP IN; CLASSIFICATION: IP65; SPECIFICATION: EIA-422/485; RANGE 1-10CDS UNITS; BS120 ENERGIZER; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	25
609746	CONTROLLER:ENERGIZER REMOTE;1-13 MM/S	CONTROLLER: TYPE: ENERGIZER REMOTE; RANGE: 1-13 MM/S; RATING: 13-26 VDC; 8 MA AT 24 VDC; APPLICATION: ENERGIZER BS120	EA	7
609747	CONTROLLER:SYNCHRONIZING UNIT;1-50 MM/S	CONTROLLER: TYPE: SYNCHRONIZING UNIT; RANGE: 1-50 MM/S; RATING: 12-14 V DC; APPLICATION: ENERGIZER BS120	EA	7
609748	CABLE FBR OPTC:LINK;1;PVC;1 MM	CABLE, FIBER OPTIC: TYPE: LINK; FIBER COUNT: 1; SHEATH: PVC; FIBER SIZE: 1 MM	EA	3000m
609769	INSUL:ST103;ST203;ELECTRIC FENCE	INSULATOR: TYPE: ELECTRIC FENCE; DIMENSIONS: DIA 15 X LG 52 X HT 20 MM; MATERIAL: PP BLACK; OEM P/N: ST103; ST203; WITH 5PCT UV STABILIZER	EA	1200
609770	INSUL:WIRE TENSIONER;POLYPROPYLENE	INSULATOR: TYPE: WIRE TENSIONER; DIMENSIONS: DIA 34 X LG 75 X HT 35 MM; MATERIAL: POLYPROPYLENE	EA	1200

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Material Number	Equipment Short description	Full Description	Unit of Measure	Required Quantity
609771	CONVERTER SGNL:FIBRE OPTIC TO RS485;RACK	CONVERTER, SIGNAL: TYPE: FIBRE OPTIC TO RS485; INPUT: 0-20 MA; OUTPUT: 4-20 MA; POWER SOURCE: 10-16 VDC AT 50 MA; APPLICATION: TTL; RS485; RS232; MOUNT: RACK; CLASSIFICATION: IP65; SUPPL P/N: DUALFOCONV	EA	20
609772	CONVERTER SGNL:PROCESS COMPUTER;I/P 0-20	CONVERTER, SIGNAL: TYPE: PROCESS COMPUTER; INPUT: 0-20 MA; OUTPUT: 4-20 MA; MOUNT: RACK; CLASSIFICATION: IP65; SUPPL P/N: RSCON	EA	18
609823	ENERGIZER ELEC FENC:100-260 VAC;8 KVAC;6	ENERGIZER, ELECTRIC FENCE: TYPE: SECURITY PERIMETER PROTECTION; INPUT POTENTIAL: 100-260 VAC; OUTPUT POTENTIAL: 8 KVAC; PULSE CHARGE: 7.6 W; BATTERY STANDBY TIME: 6 HR; STANDARD: IEC 60335-2-76; SUPPL P/N: BSENER	EA	24
609825	FERRULE ELECT COND:ID 4 MM;LG 18 MM;1.6	FERRULE, ELECTRICAL CONDUCTOR: INSIDE DIAMETER: 4 MM; LENGTH: 18 MM; ACCOMODATED WIRE SIZE: 1.6 MM; MATERIAL: ALUMINIUM; TYPE: DOUBLE ENTRY (2 WIRE); APPLICATION: ELECTRIC FENCE	EA	3000
609827	SIGN ELECT SFTY:WD 150 X LG 250 MM;30 MM	SIGN, ELECTRICAL SAFETY: DESIGNATION: ELECTRIC FENCE DANGER/GEVAAR/INGOZI; DIMENSIONS: WD 150 X LG 250 MM; MATERIAL: POLYETHYLENE; LAYOUT: BLACK LETTERS ON YELLOW; INSCRIPTION HEIGHT: 30 MM; COLOR: YELLOW; INSCRIPTION COLOR: BLACK; SPECIFICATION: IEC 60335-2-76	EA	100
688714	GLOBE:PL26;WD 34 X LG 180 X HT 34 MM	GLOBE: TYPE: PL26; DIMENSIONS: WD 34 X LG 180 X HT 34 MM; OEM P/N: PL26; SUPPLIER SHOULD PROVIDE DATASHEET FOR THIS ITEM WHEN QUOTING	EA	1000

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