| Eskom | Scope Of Work | GROOTVLEI |
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## 1. INTRODUCTION

This document outlines the requirement for the once off supply and delivery of 20 GE multilin SR350 protection relays for GE SA Plus Low Voltage switchgears installed at Grootvlei Power Station. The currently installed MIF II protection relays on the GE SA plus Low Voltage switchgears at Grootvlei Power Station are obsolete and some are faulty. There are no protection relay spares at storage area at Grootvlei power station leaving the plant at risk. The Engineering change was followed back in 2020 and was approved to go ahead with the replacement of the MIF II relays with the equivalent GE SR350 multilin protection relay. This document will serve as an input for the contract between the supplier/contractor and Eskom Grootvlei Power station for the Supply and delivery of twenty (20) GE Multilin SR350 Protection Relays for Low voltage switchgear protection.

## 2. SUPPORTING CLAUSES

### 2.1 Scope

The scope of work is an input for the once off supply and delivery of twenty (20) GE multilin SR350 protection relays at Grootvlei Power Station.

#### 2.1.1 Purpose

The purpose of this document is to define the Eskom Grootvlei power station requirements for the once off supply and delivery of the twenty (20) GE multilin SR350 protection relays to support the operational and protection needs of the electrical distribution network at Grootvlei power station.

#### 2.1.2 Applicability

This document is applicable to Grootvlei Power Station.

### 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 9000: Quality Management Systems.

[2] Occupational Health and Safety Act and Regulations (Osh Act; Act 85 of 93)

[3] ISO 14001 Safety Management Systems

[4] 240-56535985: Operations Management of MV Switchgear Used in Eskom Power Stations Work Instruction.

[5] 240-56357424: MV & LV Switchgear Protection Standard

[6] 240-56227516: LV Switchgear and Control Gear Assemblies and Associated Equipment for Voltage up to and Including 1000V AC and 1500V Standard.



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[7] IEC 60269: Low-voltage Fuses - General Requirements

[8] SANS 60269-1 Low-voltage fuses - Part 1: General requirements.

[9] 32-846 ORHVS Regulation

[10] 36-681 Generation Plant Safety Regulations

[11] SANS 60269-1,

### 2.2.2 Informative

Not Applicable.

### 2.3 Definitions

### 2.3.1 Disclosure classification

**Controlled Disclosure:** Controlled Disclosure to external parties (either enforced by law, or discretionary)

### 2.4 ABBREVIATIONS

| Abbreviations | Description |
|---|---|
| AC | Alternative Current |
| COC | Certificate of compliance |
| EMD | Electrical Maintenance Department |
| GE | General Electric |
| ISO | International Organization for Standardization |
| kV | Kilovolts |
| Osh Act | Occupational Health and Safety Act |
| ORHVS | Operating Regulations for High Voltage |
| PTM | Protection, Telecontrol and Metering |
| PPE | Personal Protective Equipment |
| PTW | Permit To Work |
| QA | Quality Assurance |



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| | |
|---|---|
| QC | Quality Control |
| QCP | Quality control program/plan/procedure |
| QCP | Quality Control Procedure |
| SANS | South African National Standards |
| SHE | Safety, Health & Environmental |
| SHEQ | Occupational Safety, Health, Environmental, and Quality |
| SOW | Scope of Work |

### 2.5 ROLES AND RESPONSIBILITIES

This document shall be managed and maintained by Electrical Engineering, Projects, Outage and Electrical Maintenance at Grootvlei Power Station.

Roles and responsibilities are as follows:

a) **System Engineer** is responsible for compiling the scope of work for the once off contract and provision for technical assurance of the relays.

b) **The Contractor/Supplier** is responsible for supply, delivery, of the protection relays as per specification outlined in the scope of work.

c) **Procurement** is responsible for coordinating and compliance to make sure the transaction is transparent, cost effective, and aligned with company policy.

d) **Materials Management** is responsible for receipt and coordination of the inspection of the delivered relays at the designated warehouse or storage facility and verify against the purchase order, delivery note, and packing list.

### 2.6 PROCESS FOR MONITORING

The Electrical Engineering Department and Protection, Telecontrol and Measurements (PTM) shall be responsible for the quality control and technical acceptance of the relays after delivery. This means that they will inspect the relays and confirm technical specifications, provide technical acceptance.

### 2.7 RELATED/SUPPORTING DOCUMENT

Not Applicable



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## 3. WORKS INFORMATION

### 3.1 Background

The contract is for the once off supply and delivery of 20 GE multilin protection relays at Grootvlei Power Station.

### 3.2 Supplier should provide the following:

- Twenty (20) GE multilin SR350 protection relays Model/Part number: LP1G1HEECRSNDH, the relays must be new, unused sourced from the Original Equipment Manufacturer (OEM) or an authorized distributor.
- Standard manufacturer's accessories, manuals, and installation instructions must be included.
- Delivery of the 20 GE multilin SR350 protection relays to Grootvlei Power Station.
- OEM test certificates and quality assurance documents.

### 3.2.1 Electrical Specification

RELAY: TYPE: PROTECTION; COIL VOLTAGE: 240 V; CONTACT ARRANGEMENT: 1 NC; CONTACT RATING: 1 A; TERMINAL: 54; MOUNT: PANEL; ENCLOSURE RATING: IP54; CONTACT MATERIAL: SILVER ALLOY; SPECIFICATION: IEEE AND IEC; 3 PHASE MULTILIN SR350 MODEL/PART NO: LP1G1HEECRSNDH

### 3.3 Acceptance

- Acceptance will be based on verification against the purchase order, inspection for damages, and confirmation of correct model and quantity. The contractor shall provide guarantees that the fuses and fuse carriers will be delivered in a month from the receival of an order.
- Any defective or incorrect items shall be replaced at the Supplier's cost.

### 3.4 Tender Evaluation Strategy

### 3.4.1 Technical Evaluation Threshold

Mandatory Technical Evaluation Criteria (gatekeepers) are 'must meet' criteria. These criteria shall not be weighted, or point scored but shall be assessed on a Yes/No basis as to whether the criteria are met unless set otherwise. An assessment of 'No' against any criterion shall technically disqualify the tenderer and shall not be further evaluated against Qualitative Criteria.

Qualitative Technical Evaluation Criteria are weighted evaluation criteria used to identify the highest technically ranked tenderer after determining that all the Mandatory Evaluation Criteria have been met. The Qualitative Evaluation Criteria are weighted to reflect the relevant importance of each criterion. The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is **80%**.

Evaluation will be done according to **Tender Engineering Evaluation Procedure *240-48929482***

### 3.5 Working Hours



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The official working hours at Grootvlei Power Station are as follow:

- Monday to Thursday: 07:15 - 16:30
- Friday: 07:15 – 12:15

### 3.5.1 Normal Hours

- The Contractor shall adopt the working hours of the Employer during the contract period.

### 3.6 Access to Facilities and Systems

- The Employer arranges an access permit to Grootvlei site for the Contractor and his vehicle(s) for delivery of electrical cables.
- While the Employer provides the accesses mentioned, the Contractor makes use of these facilities and systems within all procedures or other rules governing the similar use of these facilities by the Employer's employees. These shall include the Employer's safety, security, and ethics rules. The onus rests with the Contractor to ensure compliance to the relevant rules.

## Safety Precautions

### 3.7 Health and Safety Plan (Construction Regulations)

Upon the award of the contract, successful Contractor must submit a Health and Safety Plan, filed in a Health and Safety File.

The Safety Officer employed by Grootvlei Power Station will audit these Health and Safety Plan to ensure compliance with the provisions of the Act. The approval of the health and safety plan can sometimes take 2 to 3 days to approve, and NO WORK shall be conducted before the plan is approved. The Contractor must consider this for their health and file costing.

a) The Health and Safety Requirements to be met by contractors will be always complied with.
b) The *Life Saving Rules* will be always applied to:
    - Rule 1: Open, Isolate, Test, Earth, Bond and/or Insulate before Touch
    - Rule 2: Hook up at heights
    - Rule 3: Buckle up.
    - Rule 4: Be Sober
    - Rule 5: Ensure that you have a Permit to Work

## 3.8 Quality Assurance Requirements.

The Contractor will be subject to periodic audits by the Employer in order to ensure compliance with the system. Any deviations will be corrected to the Employer's satisfaction.

The Supply Manager has the right to stop the Contractor's work activities which, in the opinion of Supply Manager, does not meet the requirements of the system and will have a detrimental effect on plant performance.



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### 3.9 Environmental Requirements

The contractor shall comply with all Eskom Grootvlei Power Station environmental requirements such as policies, standards and procedures (work instructions). Non-conformance, incident reporting and investigations shall be done by the contractor. Polluter pays principles shall apply to all Contractors. It is the responsibility of the polluter to clean all spillages and for the rehabilitation of the polluted land and the cost associated with that.

Eskom Grootvlei Power Station shall issue non-conformances where there are deviations from Grootvlei Power Station Procedures and any other environmental requirements. Adherence to the 'Duty of Care' as stipulated in section 28 of the National Environmental Management Act 107 of 2008.

All incidents shall be managed according to Eskom Environmental incident management procedure-**240-133087117**; Station Waste management procedure and colour coding shall be always adhered to.

### 3.10 Site Services and Facilities

#### 3.10.1 ROADS

Main access roads are surfaced and complete and may be used by the Contractor with the necessary care. The Employer maintains the Site roads, described above, to a fair condition.

### 3.11 General

This contract and all information associated with its management is confidential and may not be divulged beyond the provisions stated within the contract. Should the Contractor violate this condition, the Employer may terminate this contract forthwith and nullifying any outstanding or further claims by the Contractor.

The Contractor and the key persons are to declare any interest, pecuniary, material or otherwise, in any tender, offer or quotation to the Contracts Service Manager for any other work, supply or service, to the Employer's Agent at the time when such tender, offer or quotation is submitted. The Contracts Service Manager's interpretation of a situation shall apply where there is a conflict.

## 4. Authorisation

This document has been seen and accepted by:



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## 5. Revisions

| Date | Rev. | Compiler | Remarks |
|---|---|---|---|
| October 2025 | 1 | | New document |
| January 2026 | 2 | | The following statement from page 6 was removed: “The contractor shall always adhere to the delivery agreement period as per Eskom standard (24-56361435)” as there is no such document number. |

## 6. Development Team

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

## 7. Acknowledgement

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