Eskom	Technical Evaluation Criteria	Eskom Transmission

Title: Technical **E**valuation **C**riteria for the Procurement of **Portable Earths**

Document Identifier: **240-180000319**

Alternative Reference Number:

Area of Applicability: **Apollo Converter Station**

Functional Area: **Operations**

Revision: **1**

Total Pages: **6**

Next Review Date: **February 2028**

Disclosure Classification: **Controlled Disclosure**

Compiled by	**Supported by**	**Functional Responsibility**
N Ramukosi	**N Mmola**	**T Ntlhane**
Senior Supervisor	Senior Engineer	**Operations Manager**
Date: 15/02/2023	**Date:** 15/02/2023	Date: 15/02/2023

Content

1. Introduction

Work that must be carried on high voltage equipment must be in accordance with ORHVS. Before work can be carried it, equipment needs to be open, isolated, safety tested and earthed. The earthing is carried out with a portable earth. This is done by connecting equipment to the general mass of the earth to ensure that any residual currents are safely discharged. Apollo control has a shortage of portable earths, and this is challenge during outages whereby the number of equipment that work needs to be carried out is limited. This is one of the risks that are discussed during outage planning meetings. Therefore, there has been a request to purchase additional earths to overcome this challenge. This evaluation criteria is designed as a gate way for suppliers who will be responding to this request. This is to ensure that the final supplier is picked up through a fair and transparent process.

2. Supporting Clauses

2.1 Scope

2.1.1 Purpose

Procurement of portable earths.

2.1.2 Applicability

This document shall apply to Apollo Converter Station

2.1.3 Effective date

This document is effective from date of authorization.

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

[2] OHS Act No. 85, Occupational health and safety act and regulations.

[3] EPC 32-166, Code of practice for the application of earthing gear on high voltage systems.

[4] EPC_32-846, Operating Regulations for High Voltage Systems (ORHVS).

[5] NRS 082, Recommended maintenance policy for electricity networks.

[6] 240-78692652, Specification for portable earthing gear.

[7] DST_ 240-69125290, Standard for the use of equipotential earth footplates / mats.

[8] DST_34-1710, Provision and use of personal protective equipment.

[9] EPL_34-727: Safety, Health, Environment, And Quality (SHEQ) policy.

[10] D-DT-3235, Earth Clamp for Cut-outs.

2.2.2 Informative

[1] 32-64, Eskom documentation management standard.

2.3 Definitions

Asset	**Discharge earth** A working earth designed and constructed to protect against capacitive voltage and current, which shall always be used in addition to control earths. This is for use on series and shunt capacitor banks, static var compensator capacitors and filter banks only. **Induction earth** An earth designed and constructed to protect against inductive or/and static electricity voltages and currents only and must always be applied in addition to control earths. **Portable earth** This is a portable device used to connect isolated apparatus electrically directly to the general mass of earth in such a manner that it will always ensure an immediate safe discharge of electrical energy.
Preventative Maintenance	The maintenance carried out at predetermined intervals or corresponding to prescribed criteria (such as measured condition or number of operations), and intended to reduce the probability of failure or the performance degradation of an item.

2.4 Abbreviations

Not applicable.

2.5 Roles and Responsibilities

- Senior Supervisor – Compiles the document and ensures it is authorized.
- Senior Engineer – reviews the document and provides recommendations.
- Operations Manager – Ensures the documents is implemented.

2.6 Process for Monitoring

Portable earthing gear shall be visually inspected for mechanical and electrical defects on a three-monthly basis in accordance with the standard for use and maintenance of portable Earthing Gear (240-78692652).

3. Technical evaluation criteria for maintenance of Apollo Portable Earth

This document provides the technical evaluation criteria for the procurement of portable earths as described above.

3.1 Mandatory support documentation

The mandatory support requirements are stipulated as follows:-

- The bidders must submit a proof of company registrations.

3.2 Functionality requirement and scoring

Below is the scoring of the Functionality criteria requirements that were issued by Eskom on the tender documentation. The Criteria scoring is as follows:-

- Not met scores (i.e. does not meet employers requirements/ no response) – 0 %.
- Fully met scores (i.e. with no errors, risks, weaknesses or omissions) – 100 %.

The Minimum Threshold for qualification is **90%**

Table 1: Functionality criteria used for this technical evaluation

Item	Criteria to evaluate	Scoring	Achieved Score
1	Provide all relevant accreditation Certificates.	5	
2	Provide a list of at least 5 references where the same service was supplied.	20	
3	Supply type test results available.	20	
4	Provide organograms of the responsible department and proof of accredited qualifications.	5	
5	Provide proof of compliance with the relevant SANS standards.	20	
6	Compliance with quality management system.	5	
7	Certificate of use available.	10	
8	Environmental management system available.	5	
9	Comprehensive instructions for use and maintenance available.	10	
TOTAL OUTCOME		**100%**	

4. Acceptance

This document has been seen and accepted by:

Name	Designation
Ndivhudzannyi Ramukosi	Transmission, Apollo & CS, Senior Supervisor Control Room
Mbali Chamane	Transmission, Apollo & CS, Engineer Prof Electrical
Tintswalo Ntlhane	Transmission, Apollo & CS, Middle Manager Operations
Nicholas Moola	Transmission, Apollo & CS, Senior Engineer

5. Revisions

Date	Rev.	Compiler	Remarks
January 2023	1	Ndivhudzannyi Ramukosi	Technical evaluation criteria

6. Development Team

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

- N. Ramukosi
- N Mmola

7. Acknowledgements

Not applicable.