Eskom National Transmission Company South Africa ™	**Scope of Work – Substation Engineering**	**Technology**

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1. INTRODUCTION

Ripon Traction Substation has cracked concrete foundations as well as erosion on the embankment at the perimeter of the station. Furthermore, the fencing requires an upgrade. Consequently, the high-level scope of work for this project is:

- Rehabilitate and strengthen the existing cracked foundations
- Rehabilitate the embankment
- Erect a new perimeter fence

2. REFERENCES

[1] (240-55922824) - Substation Layout Design Guideline
[2] (240-109644476) - Standard for Implementation of Substation Layouts for Transmission Substations
[3] South African Grid Code
[4] Occupational Health and Safety Act (OHS Act) 85 of 1993
[5] (32-1205) - Eskom Maintenance Management Policy
[6] (TST41-794) - Substation and Facility Maintenance
[7] (32-727) - Eskom Safety, Health, Environment and Quality policy
[8] (SANS 1200) – General Civil
[9] (240-1001183119) - Standard for Fences in Eskom Transmission Stations
[10] (240-108982466) - Standard for HV Yard Stone in Eskom Substations
[11] (TST41-877) - Transmission Substations Design Earthing Standard

3. SCOPE OF WORK

Designs and construction are in accordance with [1] – [11]. All construction is to be carried out in accordance with Eskom's Safety, Health, and Environmental Specification. Construction will be done in close proximity to other electrical equipment; therefore, all necessary safety procedures must be strictly adhered to. The work comprises of two parts which are the preparation of the surface of the steel and then the coating of the prepared surface.

3.1 CRACKED FOUNDATIONS

- The main column foundations have wide thermal based cracks that have formed. These cracks should be injected with an appropriate epoxy or cementitious material.
- Once the concrete has been filled, the surface of the concrete shall be sealed to prevent further water ingress into the concrete.

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- The foundations will thereafter need to be modified as shown on RIP24P01-SE-D53

3.2 EMBANKMENT

- Area of embankment to be rehabilitated is shown on RIP24P01-SE-D14
- Rehabilitation to be done according to 0.54-390 Sheet 52

3.3 SECURITY FENCING

- The existing security fence to be removed
- A new fence to be constructed as shown on RIP24P01-SE-D14

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Bilal Hajee	Chief Engineer – Civil
Andile Maneli	Middle Manager – Civil

5. REVISIONS

Date	Rev.	Compiler/s	Remarks
09 June 2026	0	A. Mayet	First Issue

6. DEVELOPMENTAL TEAM

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

- Azhar Mayet

7. ACKNOWLEDGEMENTS

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