

Title: **EAST GRID HIGH RISK IMBA/E
CT REPLACEMENT PROJECT
SCOPE OF WORKS**

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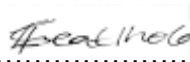
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1. INTRODUCTION

Several Current Transformers (CTs) at various voltages in the East Grid have been identified to be at high risk of failure due to a few factors including leaking. These CT's therefore must be replaced, and this necessitates the modification of the existing foundations. The replacements are to be carried out under the Scheme ID ERCT_ABIM as follows:

1. Impala Substation - IMP22P12- (Impala No6 Trfr Bay 275 kV Side)
2. Mersey Substation - MER22P10- (Mersey No3 Trfr Bay 275 kV Side, Mersey No2 BB 400kV Bus Section No1, Mersey No2 Trfr Bay 400 kV Side, Mersey No3 Trfr Bay 400 kV Side) and
3. Tugela Substation - TUG25P09- (Tugela, 15 off: Tugela No1 Trfr Bay 275 kV Side, Tugela No1 Trfr Bay 132 kV Side, Tugela No3 Trfr Bay 132 kV Side, Tugela 132kV BB Coupler A).

2. REFERENCES

- [1] (0.54/390) – HV Yard Civil Work
- [2] (240-108982466) - Standard for HV Yard Stone in Eskom Substations
- [3] (240-55922824) - Substation Layout Design Guideline
- [4] (32-1205) – Eskom Maintenance Management Policy
- [5] Occupational Health and Safety Act (OHS Act) 85 of 1993
- [6] SANS 1200: Standardised Specification for Civil Engineering
- [7] SANS 10162-1: The Structural Use of Steel
- [8] SANS 0100-1: The Structural Use of Concrete
- [9] (TST41-794) – Substation and Facility Maintenance

3. SCOPE OF WORK

This scope of work applicable to Impala, Mersey and Tugela Substations is to be read in conjunction with drawings Imp22P12-SE-E52, Mer22P10-SE-E51, Mer22P10-SE-E52 and Tug25P09-SE-E51. All construction is to be carried out in accordance with Eskom's Safety, Health and Environmental Specification. All necessary safety procedures must be strictly adhered to.

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The Civil Scope of Work at Impala, Mersey and Tugela Substations involves the following:

1. Foundations
2. Steelwork
3. Yard stone

3.1 FOUNDATIONS

Existing foundations to be modified. Remove yard stones and excavate around existing foundations. Modify the foundations with respect to drawings Imp22P12-SE-E52, Mer22P10-SE-E51, Mer22P10-SE-E52 and Tug25P09-SE-E51, applicable to the respective foundation.

3.2 STEELWORK

Steelwork support to remain in place and treated with anti-rust agent if required.

3.3 YARD STONE

Reinstate yard stone where applicable according to document 240-108982466.

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4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Thato Mathe	Chief Technologist
Andile Maneli	Senior Manager

5. REVISIONS

Date	Rev.	Compiler	Remarks
April 2025	1	Lerato Makola	First issue
March 2026	2	Lerato Makola	Revised Scope
March 2026	3	Lerato Makola	Substations to which scope of works applies indicated.

6. DEVELOPMENT TEAM

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

- Lerato Makola

7. ACKNOWLEDGEMENTS

None

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