



Scope of Work

Distribution
Division

**Minor Retic (LV and MV) Scope of Works
within Distribution Gauteng Cluster**

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N/A

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Eskom

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1. INTRODUCTION

This document relates to Minor reticulation works consisting of various types of electrical reticulation covering new supplies, increases, decreases LPU's, dismantling and infills work customers affected by Load reduction within the Gauteng Cluster.

1.1.1 PURPOSE

The purpose of the document is to supply of labour, transport, and supervision to execute the required scope of work on an as and when required basis.

1.1.2 BACKGROUND

Gauteng Cluster receives multiple customer applications for power supply, these appointments will enable Asset Creation to deliver timeously on the customer requests for supply thus increasing Eskom revenue for Eskom by connecting new customers, satisfying customers and contributing to the goal of our government of Universal Access This is one programme that is unpredictable and solely depends on customer requests for points of supply. The volumes are high and the other aspect that makes the programme volatile is the number of low- value projects that gets delivered on a yearly basis. It is inconceivable that such volumes could be delivered via multiple open tender processes for each customer application. The volatility dictates the pace in terms of deliverables per annum therefore making it so difficult to present an objective view of what is coming in the pipeline at any given point in time.

If a customer has paid all the relevant costs and met all other obligations stipulated by the license holder and if, where applicable, all subsidies have been received, the following time frames are recommended for the provision of supply:

- a) Within 30 working days where the existing infrastructure can be used;
- b) Within two months where LV network extensions are required and within three months where MV network extensions are required; and
- c) If new networks have to be installed, if HV extensions are required or if supply is required for industrial and commercial customers, the period for providing the supply should be negotiated between the customer and the licensee

1.1.3 SCOPE OF WORK

The work consists of various types of electrical reticulation covering new supplies, increases, decreases LPU's, dismantling and infills work.

The Contractor shall carry out the testing as required in term of Occupational Health and Safety Act, Act 85 of 1993 and complete the Compliance Certificate. The original must be handed to Eskom and a copy left at the point of supply.

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The work comprises of:

The supply of labour, transport, and supervision to execute the following:

1. Bush Clearing

- Light or dense vegetation shall be cut and removed upon the receipt of all necessary permits and approvals from relevant authorities.

2. Excavations for:

- Stays and Struts – Shall be dug by hand, auger or rock drill.
- Wood Poles – Shall be dug by hand, auger or rock drill.
- Concrete Poles – Shall be dug by hand, auger or rock drill.
- Cable Trenches – Shall be dug by hand, auger or rock drill.

3. LV & MV wood poles lines including the installation, earthing and connection of distribution transformers and installation of fuse units.

4. Installation of Pole Top Boxes

- The materials for this shall be supplied by Eskom.
- The boxes will be vandal proof enclosures manufactured from 3mm 3CR12 powder coated steel. 4-way and 8-way pole top boxes will be installed in this project. They should be wired and fitted with auxiliary equipment as per D-DT1030, 1031, 1032 and 1033 respectively. Circuit breakers shall be 40A curve 1/D hydraulic magnetic.
- Install padlocks on the pole top boxes.

5. Stay and Strut Installations

- The materials for this shall be supplied by Eskom. The staying shall be 97 kN ultimate load. The stay-rod size shall be 20 mm diameter 300WA steel with a minimum length of 2.0 m. The stay wire shall be 17 x 4.00 mm.

6. Underground LV and MV Cable Installations

- The LV and MV cabling shall be installed in accordance with D-DT0854.
- LV and MV Structure assembly and installation
- LV and MV structures shall be in accordance with the standard.

7. Conductor Stringing and Tension

- The conductor installation shall be in accordance with D-D3136.

8. Equipment Installation

- All equipment shall be installed in accordance with the standard as specified on the design.

9. Earthing

- The MV and LV earthing shall be installed in accordance with the MV and LV Distribution System Earthing standard.

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10. Minisub and Transformer Installation

- Minisubs shall be installed as specified by the design in accordance with the standard.

11. Meter Kiosk Installation

- SPU and LPU customers shall be supplied using either meter kiosks or meter panels (see D-DT-3236).
- Meter kiosks and meter panels shall be selected and applied as described in 240-75661043.
- Meter panels as well as meter kiosk are supplied fitted with either MCBs or MCCBs for the protection of customer cables.

12. Meter installation

- The prepaid smart meters shall be installed on the pole top boxes.

13. Overhead and Underground Service Installations

- The concentric cable shall be used for all service connections.

14. Directional Drilling

- Directional drilling method shall be done to cross the roads.

15. Joint Bays

- Joint bays shall be prepared in accordance with the standard.

16. Dismantling of existing equipment

- To be removed as specified by the design

17. Removal of existing LV And MV Cable

- To be removed as specified by the design.

18. Installation of Labels

- All labels shall be installed in accordance with the labeling standard and specified by the design.

19. Testing

- All relevant tests shall be performed and witnessed by the clerk of works.

20. As-built Drawings

- The design drawing shall be marked on site and show all the changes that were made during construction.

2. ROLES AND RESPONSIBILITIES

Role	Description
End-user	Provide user specification/Scope of work requirements and recommend
NED Design Engineer	Compile
Senior Design Technologist	Support
Asset Manager Design	Authorise/Approve

3. COST BENCHMARKING

Costs analysis be completed by the Quantity Surveyor

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
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5. Development team

Name	Designation
France Welcome	NED Design Engineer
Loyiso Pethu	Senior Design Technologist
Tukela Tswane	Manager Program Infrastructure

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