	Scope of Works for Low Voltage Network Maintenance and Refurbishment Contract	Scope of Works
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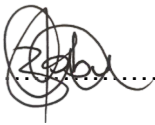
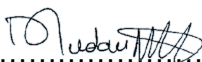
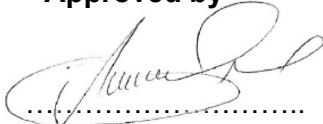
Area of Applicability: **Maintenance & Operations**


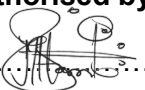
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1. INTRODUCTION

This document relates the user requirements for the Provision of Low Voltage Network Maintenance Contractors for Gauteng Cluster.

2. SCOPE

2.1 PURPOSE

The purpose of the document is to record the user requirements for the Provision of Low Voltage Network Maintenance Contractors

The scope of work includes:

- The scope of work / specification for LV Maintenance is detailed below as follows:
- Poles, Stays and Structures
- Excavations for pole holes and, stays
- Planting of poles
- Dismantling of damaged poles
- Assemblies of LV structures
- Installation of stays
- Correct Earthing and Bonding

Stringing

- Re-stringing of conductor for upgrading purposes and tensioning,
- Repair/Replace line hardware's and other line accessories,

Cable Trenches

- Road Crossing - Digging
- Road Crossing - Bulleting
- Supply and Install Sleeves
- Excavations for cable trenches
- Installation of bedding and blanket soil

LV service connections

Equipment:

- Installation of ground mounted transformer
- Installation of pole top transformer
- Installation of Morsdorf fuse bases

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- Installation of smart meters for overhead
- Installation of smart meter for underground network
- Installation of pole top meter boxes for PPU, SPU and LPU connections
- Installation of ground mounted meter boxes for PPU, SPU and LPU connections

- Replacement of LV bare conductor with ABC bundle,
- Installation of pole top boxes,
- Re-conditioning of LV kiosk boxes, and
- Installation of high-risk steel ground mounted kiosks
- Installation of high-risk pole top mounted kiosks
- Installation of smart metering data concentrators
- Labelling/Numbering of poles and kiosks after replacement or new installation
- Installation of ready boards
- Installation of MCB
- Installation or repair of LV underground cables
- Replacement of LV underground cables
- Planned maintenance
- Breakdown maintenance

Dismantling

- Dismantling of pole top mounted transformer
- Dismantling of minisub
- Dismantling on any LV Kiosk
- Removing Plinth
- Dismantle ground or pole top mounted transformers
- Dismantle free standing RMU
- Dismantling of existing Ready boards
- Dismantle and Removal of structures-Wood Poles
- Dismantle and Removal of structures-Stays and Plates
- Dismantle and removal of MV or LV Conductor
- Dismantle Service Cable

Disconnections

- Disconnect of illegal connections and issue tamper fine for 1Ø supply point and take 2 photos. (PPU or SPU)
- Disconnect supply point if meter found bypassed / tampered or illegally connection and issue tamper fine for 3Ø supply point and take 2 photos. (PPU or SPU)

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- Reconnect supply point remedial charge has been paid for 1Ø supply point and take 2 photos. (PPU or SPU)
- Reconnect supply point remedial charge has been paid for 3Ø supply point and take 2 photos. (PPU or SPU)
- Investigate PPU meter by performing meter trip test, seal all meters that has passed trip and capture field data using own handheld Units (HHU) for a 1Ø & 3Ø supply point.
- Investigate SPU meter using a meter verifier and capture field data, perform meter accuracy test, observe and capture remarks using own handheld Unit (HHU) for a 1Ø phase supply point.
- Investigate SPU using a meter verifier and capture field data, perform meter accuracy test, observe and capture remarks using own handheld Unit (HHU) for a 3Ø phase supply point.
- Coding of meters

1.1 APPLICABILITY

This URS is applicable to the Provision of Substation and Scope of Works for Low Voltage Network Maintenance Contract.

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3. NORMATIVE/INFORMATIVE REFERENCES

The following references are included:

3.1 NORMATIVE REFERENCES

- Not Applicable

3.2 INFORMATIVE REFERENCES

- M&O Standards
- Occupational Health and Safety Act 85 of 1993
- Manufacturer Operation and Maintenance Manuals

4. DEFINITIONS AND ABBREVIATIONS

4.1 DEFINITIONS

4.1.1 Classifications:

4.1.1.1 **Public domain:** published in any public forum without constraints (either enforced by law, or discretionary).

4.1.1.2 **Controlled disclosure:** controlled disclosure to external parties (either enforced by law, or discretionary).

4.1.1.3 **Confidential:** the classification given to information that may be used by malicious/opposing/hostile elements to harm the objectives and functions of Eskom Holdings Limited.

4.1.1.4 **Secret:** the classification given to information that may be used by malicious/opposing/hostile elements to disrupt the objectives and functions of Eskom Holdings Limited.

4.1.1.5 **Top Secret:** the classification given to information that may be used by malicious/opposing/hostile elements to neutralize the objectives and functions of Eskom Holdings Limited.

4.2 ABBREVIATIONS

Abbreviation	Description
Dx	Eskom Distribution
URS	User Requirements Specification

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5 ROLES AND RESPONSIBILITIES

Role	Description
End-user	Provide user specification requirements
Functional Manager	Support solution proposed
Zone Managers	Support solution proposed
SMS Manager	Co Support solution proposed
Snr M&O Manager	Authorise implementation of proposed solution

6 PROCESS FOR MONITORING

Document revisions will be marked in ascending numeric order. Final copy approved by Snr M&O Manager and to be stored accordingly.

7 RELATED/SUPPORTING DOCUMENTS

Not applicable

8 REQUIREMENTS

We require the major renovations to comply with the stipulated standards.

9 COST BENCHMARKING

To be confirmed by appointed QS

10 RECORDS

All records to be managed in compliance to the Eskom records management policy.

11 AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Xolisa Gabela	Middle Manager Portfolio (Assert Creation)

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12. DEVELOPMENT TEAM

Name	Designation
Zisanda Jobodwana	Programme Manager
Mphathutshedzeni Mudau	Manager Technical Support
Cavin Nxumalo	Tshwane Zone Manager (Acting)

13.ACKNOWLEDGEMENTS

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