

	Scope of Work	NTCSA
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Functional Area: **JHB CLN – Diphororo Substation**

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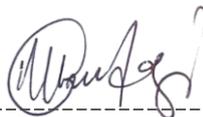
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1. Introduction

Central Grid has a new substation under construction in Soshanguve, named Diphororo. The 400/132 kV substation has elevated gantries and equipment reach which may pose as challenge for standard ladder use during operational activities. The objective is to procure a mobile elevated lifting boom with platform to use in Diphororo for maintenance and operating purposes.

2. Supporting Clauses

2.1 Scope

2.1.1 Purpose

The purpose of the document is to detail the specification for the once off purchase of a mobile lifting boom for Diphororo Substation in Soshanguve.

2.1.2 Applicability

This document shall apply in National Transmission Company South Africa SOC Ltd Reg No 2021/539129/30's Central Grid substation namely Diphororo.

2.1.3 Effective date

The document will be effective from approval for the once off purchasing transaction.

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

- [1] ISO 9001 Quality Management Systems
- [2] Occupational Health and Safety (OHS Act 85 of 1993) reference to Driven Machinery Regulation 18 – Lifting Machines and Lifting Tackle
- [3] South African National Standards (SANS) 1599

2.2.2 Informative

- [1] SANS 1599 – 2:2019 Power Driven Mobile Cranes
- [2] SANS 4309:2017 – Cranes – Wires ropes : Care and maintenance, and discard
- [3] SANS 4310:2002 – Cranes : Test code and procedures

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[4] SANS 19: The inspection, testing and examination of mobile cranes

2.3 Definitions

- Safe Working Load: maximum mass load lifting equipment can handle without failing

2.4 Abbreviations

Abbreviation	Explanation
SWL	Safe Working Load

2.5 Roles and Responsibilities

The roles and responsibilities will be of NTCSA appointed representative to manage and oversee the transaction until handover of the acquired asset, including training for the use to the selected NTCSA representative in accordance with the requirements in [2]

2.6 Process for Monitoring

The contractor shall follow the guidelines and requirements in the scope of work and technical specification documents including requirements in the Occupational Health and Safety (OHS Act 85 of 1993) with regards to Driven Machinery Regulations sections to execute the scope of work. Any deviations from the scope is to be communicated with the NTCSA representative and approval issued with the relevant documents.

2.7 Related/Supporting Documents

N/A

3. Scope of Work :

Supply and deliver a mobile lifting equipment with mobile working platform (Articulated Lifting Boom)

The Once of supply and delivery of an outdoor Articulated Lifting Boom with jib with following:

- Working height reach of 16 m
- Operating range of 8-10 m
- Working SWL of 200 kg or more

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- Multiple steering mode
- 180 degrees left and right swing platform
- Tough terrain drive
- Fault diagnosis system
- Anti crushing detection/protection system
- Operating alarm, flash and horn

The transaction should offer once off basic training or demonstration on operation of the machine, functionalities and safety controls.

4. Acceptance

This document has been seen and accepted by:

Name	Designation
Pulane Sereme	HV Plant Manager
Matimba Simango	HV Plant Senior Engineer
Livhuwani Mulaudzi	HV Plant Snr Advisor

In the preceding table, list the manager/s of the divisions that will be affected by the content of this document.

5. Revisions

Note: Start with the latest Revision History in the first row and go backwards.

Date	Rev.	Compiler	Remarks
July 2025	0	S.N Ntsoane	Scope of work

6. Development Team

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

- N/A

7. Acknowledgements

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Appendix A – TECHNICAL SPECIFICATIONS

A.1 Technical Specifications for the Mobile Lifting Boom with Jib should include but not limited to:

- Working height reach of 16 m
- Operating range of 8-10 m
- Working SWL of 200 kg or more
- Multiple steering mode
- 180 degrees left and right swing platform
- Tough terrain drive
- Fault diagnosis system
- Anti crushing detection/protection system
- Operating alarm, flash and horn
- 240 V AC receptible point on platform

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Appendix B – TECHNICAL CRITERIA

Technical Requirement	Weighting	Score
Proof of work experience of similar nature	30 %	
Valid proof from Dept. of Labor confirming registration as Lifting Machinery Entity (LME)	35%	
Supplier is the OEM or Accredited Agent/Distributor of the equipment	35%	

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