Eskom National Transmission Company South Africa ™	SCOPE OF WORK	ASSET MANAGEMENT

Title: **Supply And Delivery of 5Ton Telescopic Handler**

Document Identifier: **240-180100038**

Alternative Reference Number: **SOW 2025 - 727**

Area of Applicability: **Grid Modernisation**

Functional Area: **Tower Testing Station**

Revision: **1**

Total Pages: **7**

Next Review Date: **N/A**

Disclosure Classification: **Controlled Disclosure**

Compiled by	Functional Responsibility	Authorized by
N Ramonyalioa	**D Matlou**	**B Jordaan**
Senior Technician	**Manager**	**Middle Manager**
Tower Test Station	**Testing Facilities**	**Testing Facilities**
Date: 20 June 2025	Date: 20 June 2025	Date: 20 June 2025

Content

Page

1. Introduction 3
2. Benefits 3
3. Motivation 3
4. Supporting Clauses 4
   4.1 Scope 4
      4.1.1 Purpose 4
      4.1.2 Applicability 4
   4.2 Normative/Informative References 4
      4.2.1 Normative 4
      4.2.2 Informative 4
   4.3 Abbreviations 4
   4.4 Specifications 5
   4.5 Evaluation Criteria 6
5. Acceptance 7

1. Introduction

Eskom Tower Test Station is situated in Rosherville, Johannesburg. The main function of the facility is to conduct full scale testing on transmission structures, telescopic handler is required to move heavy material in rough terrains during tower testing preparation.

2. Benefits to NTCSA's Tower Testing Station

Enhanced Safety and Efficiency in Operations:

In the absence of a functioning tower crane, the telescopic handler will allow staff to move heavy materials, such as steel bases, safely around the facility and across rough terrains during tower testing preparation. This will reduce the risk of transporting equipment with forklifts, which are currently not fit for purpose.

Versatility in Handling Heavy Loads:

With a high lift capacity of up to 4999 kg, the handler facilitates the handling of large and heavy transmission structure components with ease. Its extended maximum forward reach of 4.47m also allows staff at the station to access and manoeuvre materials in areas that are challenging to reach, thus optimizing work processes.

Adaptability to Various Tasks:

The telehandler's multiple attachments, such as pallet forks and a light material bucket, offer flexibility to perform diverse tasks, ranging from material handling to site cleanup. Designed for rough terrain operations, unlike the forklifts currently in use, it will provide staff with access to various areas around the testing station. Despite being designed for rough terrain, it is compact in size (2.5 m height and 2.5 m width), making it suitable for manoeuvring in confined spaces within the testing station.

3. Motivation for Purchase

The acquisition of a 5-ton telescopic handler is crucial for testing operations, given the absence of a fully functional tower crane and the nature of NTCSA's tower testing facility. The telescopic handler fulfils the specific requirements for moving heavy materials like steel bases and tower sections during preparation phases for testing. While the initial investment of R6m seems high, the telescopic handler offers long-term cost benefits through improved operational efficiency and minimised risks of workplace injuries. According to NTCSA's development plan, the electricity network will expand over the next few years, which means new tower designs will require testing. Therefore, having equipment like the telescopic handler ensures readiness to handle an increased workload and operational demands.

The purchase of a 5-ton telescopic handler for NTCSA's tower testing station not only meets current operational needs but also positions the facility for future growth and efficiency in conducting critical testing operations.

4. Supporting Clauses

4.1 Scope

Supply And Delivery of 5Ton Telescopic Handler.

4.1.1 Purpose

The purpose of this document is to provide information on the requirements for the supply and delivery of Telescopic Handler.

4.1.2 Applicability

This document shall apply at NTCSA Tower Test Station facility, Rosherville.

4.2 Normative/Informative References

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

4.2.1 Normative

BS EN1459, European standard for Telehandler - Design.

4.2.2 Informative

a) BS 7121:1, Code of practice for safe use of cranes — Part 1: General
b) BS 7121:2, Code of practice for safe use of cranes — Part 2: Inspection, testing and examination

4.3 Abbreviations

Abbreviation	Explanation
NTCSA	National Transmission Company of South Africa
ISO	International Organisation for Standards
EN	European Standard
BS	British Standard

4.4 Specifications

Maximum lift capacity:	4999kg
Maximum lift height:	8.1m
Maximum forward reach:	4.47m
Lift capacity at full reach:	1500kg
Overall height:	2.5m
Overall width over tyres:	2.5m
Length to front carriage:	5.27m
Engine (gross):	125(93) hp(kW)

Equipment attachment requirements

- Pallet forks
- Light material bucket

Typical Illustration

4.5 Evaluation Criteria

Elements	Weight	Returnable with the tender
1. Warranty.	20	Signed letter stating the warranty of minimum 2 years. **Scoring** No letter = 0% Signed letter stating the warranty of minimum 2 years = 20%
2. OEM Support	20	Signed letter from OEM or authorised distributor confirming technical support. **Scoring** No signed letter from OEM or authorised distributor = 0% Signed letter from OEM or authorised distributor submitted = 20%
3. Specification		
a) Maximum lift capacity: 4999kg	10	Submit specification sheet/brochure confirming all listed requirements. **Scoring:** No specification = 0% Specification sheet/brochure confirming all listed items submitted = 60%
b) Maximum lift height: 8.1m	10	
c) Maximum forward reach: 4.47m	10	
d) Lift capacity at full reach: 1500kg	10	
e) Engine (gross): 125(93) hp(kW)	10	
f) Length to front carriage: 5.27m	10	

Threshold: 70%

5. Acceptance

This document has been seen and accepted by:

Name	Designation
Bertram Jordaan	Middle Manager – Testing Facilities

Development Team

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

Name	Designation
Neo Ramonyalioa	Senior Technician