

Scope of Work

Majuba Power Station

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	Work for Trunnion House Facility	

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1. Introduction

Majuba Power Station is a coal fired power station and a National Key Point situated between Volksrust and Amersfoort in Mpumalanga Province. Majuba is Eskom's only power station that

is not linked to a specific mine and it receives its coal from various sources.

There has been a collapse of trunnion houses previously. New trunnion houses were constructed from IBR sheeting's which do not provide the necessary protection the equipment in the housing requires., Visual inspections have been done and it is evident of major deflection

on the steel structures.

2. Supporting Clauses

2.1 Scope

2.1.1 Purpose

The purpose of this document is to define the scope of Works required for the demolition of the

existing trunnion houses and construction of new trunnion house structures

2.1.2 Applicability

This document is applicable to Majuba Power Station.

2.1.3 Effective date

The document is effective from the authorisation date.

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] OHS ACT Occupational Health and Safety Act, No 85 of 1993.

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[3] National Environmental Management Act 1998

[4] National Environmental Management Waste Act No 59 of 2008

[5]SANS 14713/ISO 14713 (SABS ISO 14713), Protection against corrosion of iron and steel in structures

[6]SANS 657-1, Steel tubes for non-pressure purposes – Part 1: Sections for scaffolding, general engineering and structural applications.

[7]SANS 1282 (SABS 1282), High-strength bolts, nuts and washers for friction-grip joints.

[8]Eskom Standard: QM 58

[9]ESKOM CORPORATE IDENTITY MANUAL - ESKAMAAA1

[10]SANS 10162: The Structural Use of Steel

[11] SANS 2001-CS1:2005 Structural steelwork

[12] SANS 1700-14-3/ISO 4034

[13] SANS 10094 (SABS 094), The use of high-strength friction-grip bolts.

[14] SANS 10143 (SABS 0143), Building drawing practice.

[15] SANS 10403, Formatting and compilation of construction procurement documents.

[16] SANS 1200 Series

2.2.2 Informative

None.

2.3 Definitions

Definition	Description	
Employer	Eskom Generation	
Contractor	Service provider contractor to provide a specific service to Eskom, Majuba Power Station.	
Project Engineering Team	Eskom Majuba Power Station Engineering representative	

2.3.1 Document:

N/A

2.4 Abbreviations

Abbreviation	Explanation
OHS	Occupational Health and Safety Act
SoW Scope of Works	

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2.5 Roles and Responsibilities

Name	Role	Responsibility	
Muawiya Pilodia	System Engineer	System Engineer (Civil)	
Sinothi Buthelezi	Auxiliary Manager	Line Manager	

2.6 Process for Monitoring

Not applicable.

2.7 Related/Supporting Documents

Not applicable.

3. Scope of Work

Except as otherwise expressly provided here-in, the Contractor supplies all labour, supervision, managerial support to site staff, consumable materials and materials to be installed, construction equipment, tools, transportation, handling, hauling, stockpiling, loading equipment, testing, etc, in all aspects complete for the execution of the project

The appointed contractor works include but not limited to the following tasks:

- Design a structure with the following parameters:
 - The existing perimeter may not be changed
 - The structure needs to be fire proof (2- hour fire rating)
 - o The structure need to be sound proof (75 Decibels)
 - The roof structure needs to accommodate a loading of 2KPa
 - The roof structure needs to be a mono-pitched and not flat, the angle of the roof needs to ensure minimal material to collect on the roof and allow the material to slide down to the ground
 - The structure cladding must be constructed from galvanised steel panels, or approved material
 - Doors to match existing or improved if approved by engineer
- Remove and reinstate all electrical components attached to the structure
- Demolish, remove and dispose of current Trunnion House Structures (No. off 30) to Africa Stores (within the Power Station)
- Construct new Trunnion Houses (No off 30) based on design
- Seal all holes in the structure, The sealant needs to be able to withstand 60 Degree Celsius
- Replace all mill soundhoods (no off 30)
- Structural certificate for the trunnion houses

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4. Drawings

4.1 Perimeter of structure

The permitter boundary may not change, below is an image of the permitter of the structure.

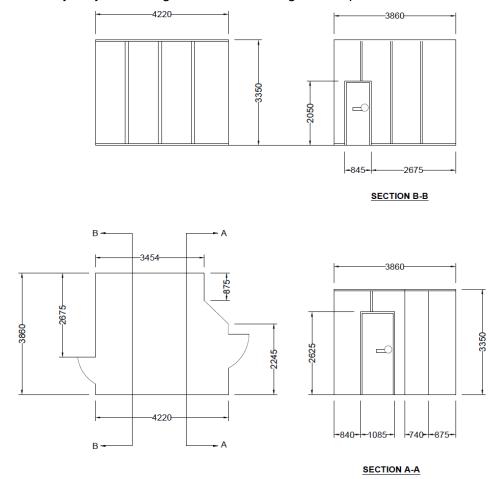


Figure 1: Existing Trunnion House Dimensions

4.2 Description of Site:

The site is situated on Eskom Majuba Power Station property in Amersfoort, Mpumalanga. The work will be carried out at the Majuba Power Station. The facility will be in full operation and work will be carried out under permit to work conditions.

The contractor will be afforded the opportunity to come on site to view the conditions and perform the necessary assessments required to come up with a suitable solution for the problem identified.

5. ACCEPTANCE

This document has been seen and accepted by:

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Name & Surname	Designation	
Muawiya Pilodia	System Engineering (Auxiliary)	
Ndivhuwo Negogogo	Senior Civil Engineer	
Sinothi Buthelezi	Auxiliary Engineering Line Manager	
Johan Swanepoel	Middle Manager Engineering	

6. REVISIONS

Date	Rev.	Compiler	Remarks
October	1	Muawiya Pilodia	First Issue

7. Development Team

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

- Muawiya Pilodia
- Neziswa Nohashe
- Ebrahim Moosa
- Ndivhuwo Negogogo
- Sinothi Buthelezi
- Johan Swanepoel

8. Acknowledgements

Not applicable.