

	Scope Of Work	Hendrina Power Station
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1. INTRODUCTION

Hendrina Power Station

Hendrina power station is located approximately 40km south of Middelburg at the town of Hendrina in Mpumalanga. At the time it was built it was the largest station to be designed by ESCOM (Electricity Supply Commission), with an ultimate generating capacity of 2 000MW, consisting of ten 200 MW machines.

Hendrina power station units comprises of Fabric filter plants, also known as baghouses or fabric collectors, are essential components in industrial applications for controlling air pollution. They are widely used in various industries such as cement, steel, power generation, pharmaceuticals, and food processing, among others. Fabric filter plants efficiently remove particulate matter from gas streams, making them compliant with environmental regulations and ensuring a clean and safe working environment.

This document defines the contract works to be executed by the successful bidder, of which is evaluated and selected using the open tender process. The Scope of Work (SOW) for this contract entails the repair and refurbishment requirements of Fabric filter plant at Hendrina Power Station.

2. SUPPORTING CLAUSES

2.1 SCOPE & OBJECTIVES

2.1.1 Purpose/Objectives

The purpose of this document is to provide a scope of work for the following works:

- FFP bags installation scope
- FFP cages installation scope

2.1.2 Applicability

This document shall apply to Eskom Hendrina Power Station Fabric Filter Plant.

2.1.3 Scope of works

2.1.3.1 Scope of work for Installation of FFP bags and cages

The works consist of:

1. Site Establishment for bag change.
2. Medicals and inductions part of site establishment.
3. Contractor to transport Bags to boiler using vehicle (Part of Site establishment).
4. Contractor to move bags from bottom of dust hoppers to Top of FFP plant (Part of site establishment).
5. Contractor to remove rotating manifold arms on all 8 modules (LH and RH) to provide access to the bags and cages
6. Contractor to carry out cages removal on all 8 modules (LH and RH) with the use of specialised bag tools such as a spikes, small forks and big forks to be made available by the Contractor.
7. Contractor to carry out bag removal on all 8 modules (LH and RH)

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8. Contractor to carry out bag and cage Replacement on all the 8 modules (LH and RH). High temperature bags (PPS) and cages to be supplied by Eskom.
9. Contractor to remove old bags and cages to the bottom level.
10. Contractor to Dispose all the removed bags and cages. Contractor to supply the environmental bins.
11. Contractor to provide proof of FFP bags disposal site certificate.
12. Contractor to supply lime for coating of the bags which will be utilized during commissioning phase of the plant.
13. Contractor to apply lime to the bags during commissioning of the unit.
14. Contractor to open and close the inspection door seal. Replace inspection door seal. Seal to be supplied by Contractor.
15. Final Inspection to ensure that there is no debris around the plant (Good Housekeeping).
16. Site De-establishment.

2.2 NORMATIVE/INFORMATIVE REFERENCES

2.2.1 Normative

- [1] ISO 9001 Quality Management Systems.
- [2] ISO 45001 Occupational Health & Safety Management Systems
- [3] ISO 14001 Environmental Management System
- [4] SANS 1200 Standardised Specification for Civil Engineering Construction

2.2.2 Informative

- [5] Eskom Hendrina Power Station sewer reticulation
- [6] National Environmental Management Act, 1998 (Act No.107 of 1998)
- [7] Occupational Health and Safety Act (OHSA) Act 85 of 1993: Construction regulations.
- [8] SANS 1200DB Earthworks Pipe Trenches
- [9] National Building Regulations SANS10400
- [10] National Home Builders Registration Council (NHBC)

2.3 DEFINITIONS

2.3.1 Disclosure Classification

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

2.4 ABBREVIATIONS

Abbreviation	Description
FFP	Fabric Filter Plant
ISO	International Organization for Standardization
KPI	Key Performance Index

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Abbreviation	Description
N/A	Not Applicable
QIP	Quality Inspection Plan
QCP	Quality Control Plan
SANS	South African National Standards
Employer	The organization (Eskom) to which the supplier will be contracted for this tender and contracts that may result therefrom
Employer's Premises	Hendrina Power Station
Industrial Storage Facility	Physical space suitable for the storage of the items specified in the scope of work
Spares	Parts that can be used for replacement

2.5 ROLES AND RESPONSIBILITIES

Boiler Engineering – Compile scope of work

2.6 PROCESS FOR MONITORING

Not applicable

2.7 RELATED/SUPPORTING DOCUMENTS

Not applicable

3. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
	System Engineer (EDWL)
	Boiler Engineering Manager
	Engineering Manager
	Projects Manager

4. REVISIONS

Date	Rev.	Compiler	Remarks
May 2025	0		Initial Document

5. DEVELOPMENT TEAM

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

6. ACKNOWLEDGEMENTS

N/A

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APPENDIX A: ADDITIONAL DOCUMENTATION

Table 1: Bill of Quantities

Functional/Plant Group	Work order No.	Equipment/Materials/Item Description	Eskom Stock / Non Stock Item (Y/N)	Eskom Equipment/Materials/Item Number	Qty
FFP Plant	723972608	FFP bags(high temperature)	Y	236247	8000 Per unit
FFP Plant	723972608	FFP support cages	Y	633760/246112	24000