

Title: **Scope of Work for Boiler
Sootblower system
Maintenance contract**

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1. INTRODUCTION

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 online and offline maintenance of the Sootblower system at Hendrina Power Station.

2. SUPPORTING CLAUSES

2.1 SCOPE

The scope comprises of, but is not limited to, the offline and on maintenance of the Sootblower system.

2.1.1 Purpose

The purpose of this scope of work is to outline the work that is to be executed by the contractor, and the responsibilities of all parties involved. The contract scope of work serves to support the tender technical evaluation process.

2.1.2 Applicability

This document is applicable to Hendrina Power Station.

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] 240-168966153: Generation Tender Technical Evaluation Procedure
- [2] HSTTPMM060 Tender Technical Evaluation Strategy for Refurbishment, Supply and Delivery of Pump Spares
- [3] QM-58 Supplier Contract Quality Requirements Specifications
- [4] 240-105691858: Materials Management Safe Work Procedures Transportation Requirements for Material Handling

2.2.2 Informative

- [5] ISO 9001 Quality Management Systems
- [6] 32-1-34 Eskom Procurement Policy

2.3 DEFINITIONS

Term	Definition
Contractor	Service provider contracted for supplying a specific service to Eskom Hendrina Power Station. Used interchangeably with the term <i>Supplier</i> .
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
Returnable	Document submitted by tenderer for evaluation in support of tender bid

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Term	Definition
Spares	Parts that can be used for replacement, including the whole pump as a unit.

2.3.1 Classification

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

2.4 ABBREVIATIONS

Abbreviation	Description
μ	Micro
BS	British Standard
CI	Cast Iron
CS	Carbon Steel
DI	Ductile Iron
FPT	Female Pipe Thread
GI	Galvanized Iron
kPa	Kilopascal
LG	Length
m	Metre
mm	Millimetre
MPT	Male Pipe Thread
OD	Outer Diameter
OEM	Original Equipment Manufacturer
ID	Inner Diameter
IN	Inch
ISO	International Organisation of Standardisation
QCP/QIP	Quality Control Plan / Quality Inspection Plan
PS	Power Station
SABS	South African Bureau of Standards
SCRWD	Screwed
SOW	Scope of Work
SS	Stainless Steel
STL	Steel
TET	Technical Evaluation Team
THD	Threaded

2.5 ROLES AND RESPONSIBILITIES

2.5.1 The Employer

The responsibilities of the employer include the following:

- Clearly indicate in writing the tasks and activities that the contractor must execute.
- Ensure that the plant is safe to work in.

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2.5.2 Contractor

The responsibilities of the contractor include the following:

- a) Comply with the employer's environmental, health, and safety standards, policies, and procedures.
- b) Inform the employer's representative at least 48 hours prior to any hold points that may require the employer.

2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

N/A

3. SCOPE OF WORK

The contractor's scope of work includes the following:

- Detect all passing superheater poppet valves and overhaul – Refer to HSIPMM 293
- Detect all passing furnace wall poppet valves and overhaul (Unit 6 -10) – Refer to HSIPMM 293
Defects in the system to be addressed – Refer to HSIPMM 293 and HSIPMM 575
- Detect defected carriages (visually) and overhaul – Refer to HSIPMM 293
- Overhaul all poppet valves.
- Defect in the system to be addressed.
- Feed tube packing renewal.
- Lance tube gasket renewal.
- Strip and overhaul Superheater sectioning valve.
- Strip and overhaul airheater sectioning valve.
- Strip and overhaul electrical master valve.
- Strip and overhaul hand master valve.
- Strip and overhaul superheater drain isolating valve.
- Strip and overhaul airheater drain isolating valve.
- Strip and overhaul motorised superheater valve.
- Strip and overhaul motorised airheater drain valve.
- Strip and overhaul airheater sootblower isolating valves.
- Strip and overhaul superheater warming up valve.
- Strip and overhaul airheater warming up valve.
- Strip and overhaul firewall sootblowers (Units 6 – 10).
- Strip, clean and overhaul carriage – Refer to HSIPMM 293
- Inspect lance nozzles visually for cracks and the condition of nozzles and sizes recorded. Defected lances to be replaced.

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- Mark the outer lance with the nozzle in correct position (Sootblower nozzle to be kept at bottom of lance) to prevent erosion.
- Mechanically stroke-check the gunblowers to determine travel relative to furnace wall. Note if gunblower is “SHORT” or “LONG” stroke. Measure the size of the wall box and the distance piece.
- Inspect expanda cables for cuts and replace or repair based on inspections.
- Clean and inspect junction boxes and limit switches.
- Perform sootblower (lance and gunblower) dry run. Note that this also includes sootblower valves, which must also be stroke-checked.
- Ensure correct operation by checking the blowing time & total travel time of sootblowers, and set limits as required in the quality document Record the blowing time & total travel time.
- Set superheater and airheater sootblower pressure once the unit is returned to service.

3.1 EFFECTIVE DATE

This document will be effective from the date that the contract is authorised.

3.2 WORKS

All works performed should be accompanied by a QIP.

3.3 MATERIAL CERTIFICATES AND GUARANTEES

N/A.

3.4 GENERAL REQUIREMENTS

Comply with the employer’s environmental, health, and safety standards, policies, and procedures.

3.4.1 Handling And Transportation

N/A

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation

5. REVISIONS

Date	Rev.	Compiler	Remarks
December 2024	0	Akani Hlungwani	First Issue

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6. DEVELOPMENT TEAM

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

7. ACKNOWLEDGEMENTS

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