

	Instruction	Hendrina Power Station
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CONTENTS

	Page
1. INTRODUCTION.....	3
2. SUPPORTING CLAUSES.....	3
2.1 SCOPE	3
2.1.1 Purpose.....	3
2.1.2 Applicability	3
2.2 NORMATIVE/INFORMATIVE REFERENCES.....	3
2.2.1 Normative.....	3
2.2.2 Informative	3
2.3 DEFINITIONS	3
2.3.1 Classification	4
2.4 ABBREVIATIONS	4
2.5 ROLES AND RESPONSIBILITIES	5
2.6 PROCESS FOR MONITORING	5
2.7 RELATED/SUPPORTING DOCUMENTS	5
3. SCOPE OF WORK.....	5
3.1 EFFECTIVE DATE	5
3.2 WORKS	5
3.3 MATERIAL CERTIFICATES AND GUARANTEES	7
3.4 GENERAL REQUIREMENTS	7
3.4.1 Storage	8
3.4.2 Handling And Transportation.....	8
4. AUTHORISATION	8
5. REVISIONS.....	8
6. DEVELOPMENT TEAM	8
7. ACKNOWLEDGEMENTS.....	8

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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 Tender Technical Evaluation process. The Scope of Work (SOW) for this contract entails the supply and delivery of Refractory cast Cement and factory bricks for the Boiler plant on an as and when required basis.

2. SUPPORTING CLAUSES

2.1 SCOPE

The scope comprises of, but is not limited to, the supply and delivery of all required Boiler plant such as Refractory cast Cement and factory bricks. All supplied must be accompanied by quality control documentation.

2.1.1 Purpose

The purpose of this scope of work is to outline all the spare materials required, the contract work to be performed 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] HSTTPMM055 Tender Technical Evaluation Strategy for Supply & Delivery of Piping Spares
- [3] QM-58 Supplier Contract Quality Requirements Specifications
- [4] SANS 719 Electric Welded Low Carbon Steel Pipes for Aqueous Fluids (Large Bore)
- [5] 240-123801640 Standard for Low Pressure Pipelines as per scope
- [6] 240-105691858 Materials Management Safe Work Procedures Transportation Requirements for Material Handling

2.2.2 Informative

- [7] ISO 9001 Quality Management Systems
- [8] 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

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Term	Definition
Employer's Premises	Hendrina Power Station
Industrial Storage Facility	Physical space suitable for the storage of the items specified in the scope of work
Tubing	Metal tubes located inside of boilers that heat water to <i>produce steam</i> .
Shields	Component that is used to protect the heating surface of the boiler tubes, reduce wear, and increase the heating surface of the pipes.
Returnable	Document submitted by tenderer for evaluation in support of tender bid
Spares	Parts that can be used for replacement

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
Cr	Chrome
CS	Carbon Steel
DI	Ductile Iron
GI	Galvanized Iron
kPa	Kilopascal
LG	Length
m	Metre
mm	Millimetre
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

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2.5 ROLES AND RESPONSIBILITIES

System Engineer – Responsible for defining the technical specifications and scope to be executed by the contractor, as well as ensuring that sound engineering practice is followed.

Contract Manager – Responsible for the procurement document(s) required to establish a contract with the contractor deemed capable of executing the scope.

Contractor – Responsible for providing all the services required for the execution of the full scope of work.

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 supply and delivery of the items as listed in *Table 1*, as well as the following:

3.1. Supply required Refractory cast Cement and factory bricks on an "as and when required" basis for a maximum period of sixty (60) months from the effective date,

3.2. Transportation

- a. The components shall be transported from the Contractor's Works to Eskom's address which is Main stores; Hendrina Power Station; Pullenshope; Mpumalanga.
- b. The components shall be transported in such a manner as to prevent damage to the components and to prevent the ingress of dirt or moisture during transport.
- c. The Contractor shall be present when the components are delivered to Eskom and offloaded at Eskom's premises.
- d. A receiving inspection shall be done by the Contractor and a representative from Eskom to ensure that no damage has occurred during transport.

3.3. Checks and documentation required.

- a. Supply all necessary material data sheet.
 - b. Provide confirmation of technical specification on delivery of refractory.
- Always keep contingency spares in storage in case of emergencies throughout the duration of the contract.

In case of emergencies, the *contractor* MUST deliver the required spares to the *employer's* premises WITHIN 24 hours.

3.1 EFFECTIVE DATE

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

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3.2 WORKS

A technical specification of Refractory cast Cement is provided on the technical strategy.

Material No.	Description	Quantity
0160086	CEMENT: TYPE: CASTABLE CR; CONTAINER: BAG 25 KG; REFERENCE NO: 006910; FLINTCAST CC, MATERIAL SAFETY DATA SHEET TO BE SUPPLIED WITH EACH BATCH	24000 EA
0161910	BRICK, REFRACTORY: DIMENSIONS: WD 114 X LG 230 MM; GRADE INSULATING, FIRE, COLOUR: RED, ACID RESISTANT	4000 EA

3.3 MATERIAL CERTIFICATES AND GUARANTEES

The following documentation must be supplied to the *Employer's* representative before any item is accepted on site:

- Material Certificate products.
- Applicable guarantee/warranty, where applicable.

3.4 GENERAL REQUIREMENTS

Other piping related spares not listed in the spares list can and will be required on an as and when basis subject to approval by both the *employer* and the *contractor*.

3.4.1 Storage

The *contractor* must have a suitably sized storage facility where a minimum amount of all the spares listed in section 3.2 are to be kept for when the *Employer* requires them urgently. It is the responsibility of the *contractor* to ensure the safekeeping of spares, and that the quality of spares is not negatively impacted whilst in storage.

The spares listed in table 1 must always be available and ready for delivery at the *Employer's* premises at request.

3.4.2 Handling And Transportation

The *contractor* is expected to practice safe handling techniques during the onloading, offloading, and throughout the transportation of the spare listed in section 3.2. The *Employer's* representative will not accept any damaged items upon delivery.

Should the delivered spares be found to be defective or non-functional during or after delivery, the contractor remains responsible for the handling and transportation in the replacement process of the item(s).

4. AUTHORISATION

This document has been seen and accepted by:

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