Eskom	Scope of Work	Matimba Power Station

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1. INTRODUCTION

Matimba Power Station is in Lephalale, in South Africa's Limpopo Province. Designed to generate 4000 MW, Matimba - the Tsonga word for "Power" – was once the largest direct dry-cooled Power Station in the world, with six 665MW turbo-generator units. The annual send-out power from Matimba amounts to approximately 24,000GWh. Matimba is the holder of the world record of 80 days for six units. The coal is discharged from the mine's sassing/surge bin onto Matimba's S1 conveyor. The discharge from S1 conveyor is either sent directly to conveyor S4 or S2 but may be proportioned between both conveyors. The Matimba live stockyard is fed by the Coal Stacker/Reclaimer from conveyors S2 and S3.

The bypass conveyor and the reclaim cross conveyor S5 discharge into the Control Bin in the terrace area. This control bin is equipped with two belt feeders B1 and B2 which supply the silo coal conveyors T1A and T1B. From there, coal is transported to the silo's and then to the boiler through a series of conveyors.

2. SUPPORTING CLAUSES

2.1 SCOPE

The following are included in, but not restricted to, the scope of work for cleaning chutes:

- To ensure that all coal stockyard, oversilos, mill bins coal chutes are cleaned on regular basis intervals (on a 24-hour basis) to avoid chute blockages. The cleaning should be done regularly inside the chutes using long shovels to remove coal build ups.
- When maintenance is required inside the chutes, washing methods will be used to remove all coal particles inside the chute. This must be performed by the contractor.
- It is recommended that two (2) twelve hours shift cycle system be employed by the contractor daily, including weekends and public holidays.

2.1.1 Purpose

To prevent coal build-ups inside the chutes, which can lead to the bells running skew, which may result in belt tripping or cause damage to the belt as it hits against the structure.

2.1.2 Applicability

This document shall apply throughout Matimba Power Station when doing Chute cleaning. In addition to this the document will affect operating and ultimately production.

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] Occupational Health and Safety Act, 85 of 1993

[3] Supplier Contract Quality Requirements Specification

[4] SABS Quality Standards

[5] Occupational Hygiene

[6] Quality Programme ISO9000/1/2

[7] Construction Regulations 2014

[8] SANS 10085-1:2004 – Code of Practice for Design, Erection, Use and Inspection of Access Scaffolding

2.2.2 Informative

[9] O&M Manuals

[10] Engineering reference handbook

2.3 DEFINITIONS

Definition	Description
Employer	Eskom or Eskom Matimba power station representative appointed in writing.
Contractor	Service provider contracted for supply specific service to Eskom Matimba Power Station.
Operating	A combination of all technical, administrative, and managerial actions during the life cycle of an item intended to retain it in, or restore it to, a condition in which it can perform the required function.
Operating Strategy	The type of Operating selected for specific plant and equipment, such as time or condition-based maintenance, corrective or preventative Operating.
Operating Plan	A plan that details the Operating that needs to be done on a specific plant item or component and the frequency and quality requirements for Operating.
Operating Schedule	The timing of the Operating Plan information stipulating when in the calendar year, work needs to be done.

2.3.1 Disclosure Classification

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

2.4 ABBREVIATIONS

Abbreviation	Description
DEL	Department of Employment and Labour
KPI	Key performance indicators
GO	General Overhaul
SOW	Scope of work
PPE	Personal protective equipment
QCP	Quality control plan/ inspection and test plan
QMP	Quality management programme
SABS	South African Bureau of Standards
SAP	System, application, products
SHE	Safety, health and environment
RTF	Run to Failure

Abbreviation	Description
RP	Responsible Person
SANS	South African National Standards
SD & L	Skills, development & Localization
NCR	Non-conformance report

2.5 ROLES AND RESPONSIBILITIES

- Co-ordinating and manage contract budget and expenses.
- Ensure that the contractor operates within the budget.
- Holds monthly meetings with the contractor.
- Communicate technical interface between Eskom and the contractor.
- Ensure that all work performed complies with the OHS act regulation and quality requirements.
- Review, verify, and approve receipt of services/deliverables from the contractor.
- Manage and maintain all contract records and correspondence between the employer and the contractor.
- Ensure that the contractor complies with the conditions of contract.
- Resolving any deviations and breaches in relation to the agreed conditions of the contract
- Contracts manager must keep the original copy to file for history purposes.

2.6 PROCESS FOR MONITORING

Item	• KPI	• Targets
1	No. of PM's due	0
2	No. of P1-P3 Overdue	0
3	Manpower Utilisation	100%
4	No. of rework	0
6	Safety finding	< 1/M
7	Assessment >25^th of Month	0
8	No. of NCR's	< 4
9	SD & L	100%
10	PSR authorisation	100%

2.7 RELATED/SUPPORTING DOCUMENTS

Monthly KPI's

3. DOCUMENT CONTENT

3.1 THE PROCESS TO BE FOLLOWED WHEN CLEANING THE CHUTES.

Note: It is recommended that the cleaning should take place everyday

- Cleaning contractor to report to OPCR every day.
- When there is a need of cleaning chute, OPCR will contact the cleaning contractor, then OPCR controller will shut down the plant.
- Cleaning contractor shall obtain LAR.
- Cleaning contractor together with the SPO will go to the plant.
- Before cleaning can commence SPO will pull the trip wire of pull key on the relevant conveyor to prevent it from being activated
- Once a safe working environment has been declared. The SPO can permit cleaning to start.

3.2 THE FOLLOWING CHUTES ARE TO BE CLEANED.

- Link conveyors
- All Coal stockyard and oversilos chutes
- All Millbin chutes

COAL STOCKYARD CHUTES

1. S1 Conveyors chutes and squeezers pulleys.
2. S2 conveyors chutes
3. Stackers boom conveyor.
4. S3 conveyors chutes
5. **Coal stacker reclaimer chutes**
6. S4 conveyors chutes to control bin squeezers pulleys.
7. S5 Conveyors chutes to control bin.
8. B1 and B2 Feeders

OVERSILOS CHUTES

1. T1A and T1B conveyors chutes
2. T2A and T2B conveyor chutes
3. T3A and T3B conveyor chutes
4. T4A and T4B conveyor chutes
5. T5A and T5B conveyor chutes
6. T6A and T6B conveyor chutes
7. T7A and T7B conveyor chutes
8. T8A and T8B conveyor chutes

MILLBINS CHUTES

1. Unit 1A to F conveyor chutes
2. Unit 2A to F conveyor chutes
3. Unit 3A to F conveyor chutes
4. Unit 4A to F conveyor chutes
5. Unit 5A to F conveyor chutes
6. Unit 6A to F conveyor chutes

- Once the cleaning is completed, the cleaning contractor must report to the senior plant operator.
- The senior plant operator can then reset the pull key
- Once it is safe, the senior plant can then contact the OPCR to start the plant.

4. AUTHORISATION

This document has been seen and accepted by:

Name & Surname	Designation
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5. REVISIONS

Date	Rev.	Compiler	Remarks
November 2029	0	TM Modibe	New Document

6. DEVELOPMENT TEAM

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

- TM Modibe
- T Modiba

7. ACKNOWLEDGEMENTS

N/A