 Eskom	<b>Scope</b>	<b>Generation</b>
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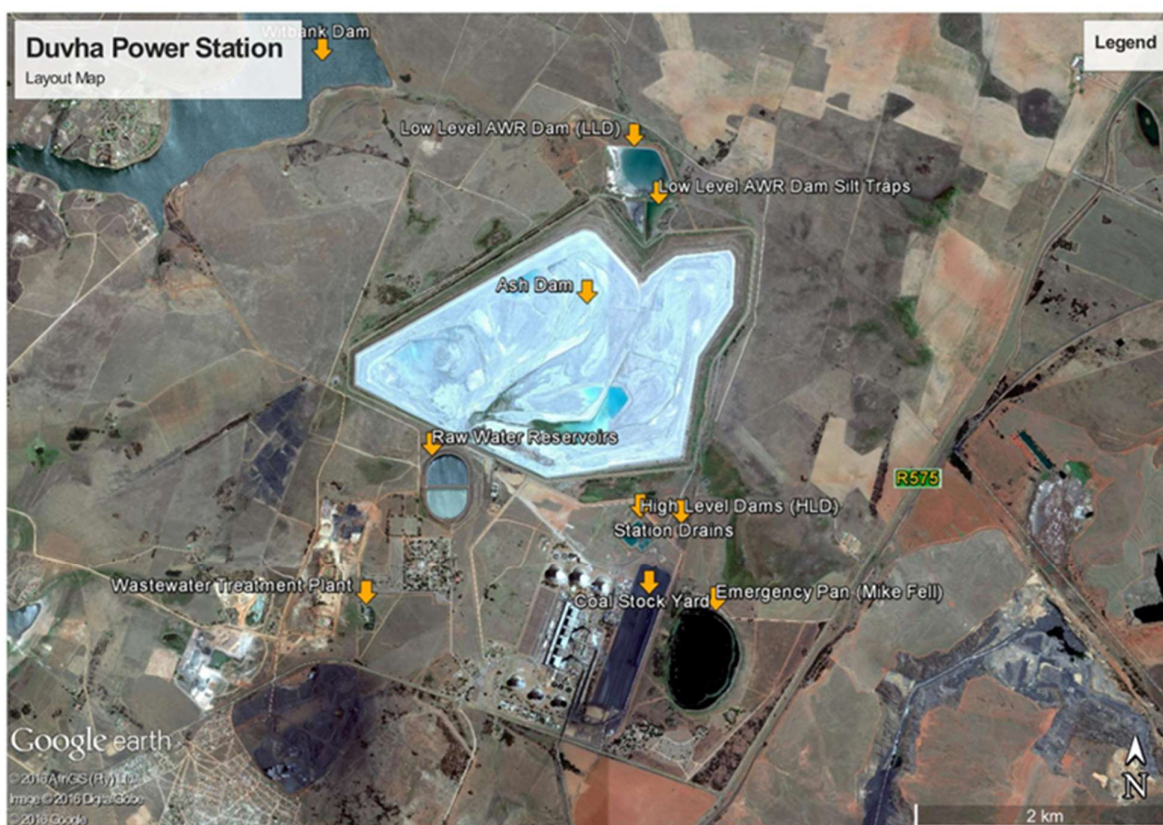
## 1. INTRODUCTION

Duvha Power Station is a coal fired power station located in Witbank, Mpumalanga Province. The Power Station has five power generating units with a combined capacity of 3,000MW. The power station is located east of Witbank Dam with the Ash Dam Complex at a minimum distance of 1.7 km from the Witbank Dam and the Low-level dam about 1.2 km see figure 1 for layout plan.

The approximate co-ordinates of the ash dam are as follows:

Latitude: 25°56'29.02" S

Longitude: 29°20'19.63" E



**Figure 1: Ash dam facility**

The Power Station produces a large amount of ash that gets disposed of in the ash dam. The rehabilitation of the ash dam facility may result in a significant impact, if not managed and maintained properly with a detrimental impact on South Africa's soil, water, and air. It is required that the ash dam stepped in areas and embankment walls be rehabilitated to prevent dust.

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## 2. SUPPORTING CLAUSES

### 2.1 SCOPE

#### 2.1.1 Purpose

The purpose of the document is to define the scope of work for the supply and delivery of topsoil for rehabilitation of the Ash Dam Facility at Duvha power station.

#### 2.1.2 Applicability

This document is applicable to Duvha Power Station only.

### 2.2 NORMATIVE / INFORMATIVE REFERENCES

#### 2.2.1 Normative

- [1] ISO 9001 Quality Management Systems - Requirements
- [2] ISO14001 Environmental Management Systems – Requirements with Guidance for Use
- [3] ISO 45001 Occupational Health and Safety Management Systems – Requirements with Guidance for Use
- [4] Occupational Health and Safety Act
- [5] National Environmental Management Act (Act No. 107 of 1998) as amended
- [6] Electricity Act of 2006, as amended
- [7] OHS Act; Act 85 of 93 Occupational Health and Safety Act; Act 85 of 93
- [8] SANS 10286:1998 The deposition practice of all mine residue in South Africa

#### 2.2.2 Informative

- [9] ISO 9000 Quality management systems – Fundamentals and vocabulary
- [10] ISO 9002 Quality management systems – Guidelines for the application of ISO
- [11] ISO 28000 Supply Chain Security Management System Standard
- [12] ISO 31000 Risk Management - Principles and guidelines
- [13] ISO 9004 Quality Management System – Quality of an organisation - Guidance to achieve sustained success
- [14] 32-1034 Eskom Procurement and Supply Chain Management Procedure

### 2.3 DEFINITIONS

#### 2.3.1 Disclosure Classification

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

### 2.4 ROLES AND RESPONSIBILITIES

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## Coal management department (CMD)

- Managing the supply and delivery of topsoil at the ash dam
- Ensure that the supplier delivers the topsoil on the set timelines.
- Quality assurance by conducting quality control during the delivery of the topsoil
- Ensure the topsoil is delivered according to specification

## 2.5 PROCESS FOR MONITORING

N/A

## 3. SCOPE OF WORK

### 3.1 DESCRIPTION OF THE WORKS

The scope entails supply and delivery of topsoil for rehabilitating the ash dam on the stepped in areas as well as embankment walls for dust suppression purposes.

#### 3.1.1 Detailed scope

The ash dam requires step ins when certain elevations are reached as per operation and maintenance manual. The stepped in areas produce lots of dust which poses a health issue. Dust suppression by water or chemical spraying is a short-term measure, however, a permanent solution is required for dust suppression. The Power Station uses rehabilitation which is defined as covering of the ash dams with fertile soil or topsoil and the planting of grass and trees as a permanent dust suppression method. A contractor is required to supply and deliver the rehabilitation topsoil for the ash dams according to the specifications below:

- Only topsoil with up to but not exceeding 30% of coarse particles and stone shall be acceptable. The stone or coarse particles shall also not exceed 250 mm in diameter. Where stripping takes place from areas which will not be ashed upon in the future the areas shall be contoured after stripping as to blend in smoothly with the existing levels. The areas shall be left without any slacks or hollows where water and contours can accumulate.
- Unless it is used immediately, the topsoil shall be stored in positions as indicated or approved by the employer, in the following manner:
- Store the soil in heaps of maximum height 1500 mm

## 4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Karabo Kgaphola	Coal supply manager

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## 5. REVISIONS

Date	Rev.	Compiler	Remarks
January 2026	1.0	Z Mabija	Final document for signatures

## 6. DEVELOPMENT TEAM

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

- Z Mabija

## 7. ACKNOWLEDGEMENTS

N/A

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