

	Scope of Work	Kendal Refurbishment Projects
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Title: **Kendal Power Station Continuous Ash Disposal Facility (ADF) Project Scope of Work for Dust and Noise Monitoring**

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1. Introduction

Kendal Power Station Continuous Ash Disposal Project is expected to undertake dust and noise monitoring in terms of Environmental Management Programme (EMPr), Ambient Air Quality Basic Evaluation and Environmental Noise Impact study reports. Section 6 of the Ambient Air Quality report requires dust fallout monitoring to be conducted, in the direction of the prevailing winds and co-located, where possible, at sensitive receptors within the zone of highest impact. Section 7.2 of the Environmental Noise Impact requires ambient noise measurements to be conducted during the construction, operational and decommissioning phases to assess and confirm the impact area. In addition to the measurement of sound pressure levels, the 3rd octave band frequency spectra should also be recorded.

2. Supporting Clauses

2.1 Scope

To outline the environmental service required for the Kendal ADF project.

2.1.1 Purpose

To source the dust and noise monitoring services required for the construction of the continuous Ash Disposal Facility (ADF) in line with the requirements of the Integrated Environmental Authorisation (IEA) and recommendations made on the Air Quality Basic Evaluation and Environmental Noise Impact Reports.

2.1.2 Applicability

This document shall apply throughout Eskom Holdings Ltd Divisions and Kendal Power Station.

2.1.3 Effective date

The document will be effective from the date of authorisation.

2.2 Normative/Informative References

2.2.1 Normative

- [1] Kendal Continuous Ash Disposal Facility Integrated Environmental Authorisation - DEA
Reference: 14/12/16/3/3/3/63

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- [2] Kendal Continuous Ash Disposal Amended Environmental Management Programme
- [3] Kendal Continuous Ash Disposal Integrated Water Use Licence - DWS Reference: 04/B20E/ABCEGI/3888
- [4] Kendal Continuous Ash Disposal Environmental Noise Impact Report
- [5] Continuous Disposal of Ash at Kendal Power Station Air Quality Basic Evaluation Report

2.2.2 Informative

N/A

2.3 Definitions

Abbreviation	Description
ADF	Ash Disposal Facility
DFFE	Department of Forestry, Fisheries and Environment
DWS	Department of Water and Sanitation
ECO	Environmental Control Officer
EO	Environmental Officer
EMPr	Environmental Management Programme
IEA	Integrated Environmental Authorization
NAAQS	National Ambient Air Quality Standards
NEMAQA	National Environmental Management Air Quality Act (Act No. 39 of 2004)
WUL	Water Use Licence
PM	Project Manager
SHE	Safety, Health and Environment

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2.4 Roles and Responsibilities

The deliverables which the *Consultant* is responsible for is not limited to the following:

- I. Providing adequate resources including provision of equipment for required *works*;
- II. Managing cost and a scheduled time frame of work;
- III. Ensuring that the scope is carried out in full;
- IV. Providing regular feedback on the status of the *works*;
- V. Ensuring that prior to any fieldwork, all parties working on site have familiarized themselves with the Employers safety requirements and the Occupational Health and Safety (OSH) Regulations act (85 of 1993);
- VI. Providing professional service to the Kendal ADF project;
- VII. Attendance of bi-Weekly and/or ad-hoc meetings with the core team.
- VIII. Weekly and monthly reports.
- IX. All work shall be conducted in accordance with the requirements of the Occupational Health and Safety Act (Act 85 of 1993) as amended.
- X. Continuously present the findings to Eskom project team for review, challenge, recommendations and approval.
- XI. Ensure that the work is to be done with no impact on the station's performance.
- XII. Provide envisaged program/schedules for the above phase of the scope of work.
- XIII. The appointed Consultant shall undertake the project work with Eskom's employees in order to assist in transferring of skills.

2.5 Process for Monitoring

The *Consultant* submits reports and shall exercise strict and adequate quality control during all phases of the work.

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2.6 Scope of Work

The *Consultants* scope of work entails and is not limited to the following:

2.6.1 Dust monitoring services

- The Consultant to access and identify suitable location for dust fall out buckets.
- Supply and install suitable dust fallout monitoring buckets for the continuous ADF as per the assessment report.
- Conduct monthly dust fallout monitoring and submit analysis report to the client.
- Dust monitoring to be undertaken in terms of methods or standards as per applicable environmental regulations.
- Relocate dust buckets as and when required.
- Advice the Client on responding to dust related complains.
- The Employer may from time - to - time instruct the service provider to carry out testing of dust levels at additional locations.
- Conduct Dust Fall-out analysis using appropriate, legislated and relevant guidelines or standards. Provide recommendation on areas found to be out of allowable limit. Analysis to include health impact to humans and to the environment.
- Use accredited laboratory for analysis.
- The Consultant to determine the suitable, relevant guidelines or standards to be used for sampling.
- Compile monthly report after receiving results from accredited lab and submit to the client.
- The Consultant will be required to ensure all equipment/instruments are calibrated and maintained as per manufacture specification.

2.6.2 Noise monitoring services

- Access and Identify receptors location for Noise monitoring points.
- Conduct noise monitoring as per the Environmental Impact Noise Assessment report, report no. 12ZIT07 dated 11 June 2014.

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- Use accepted and calibrated instruments or equipment when conducting noise monitoring. Applicable standard/s or legislation shall be complied with.
- During construction, noise levels shall be measured at monthly intervals (or more frequently if so required by the Employer) at the closest sensitive receptor to the site locations agreed with the project. These areas will be discussed and agreed with the Consultant.
- Noise recordings shall reflect typical ambient noise levels during construction and accordingly noise levels shall be recorded during normal construction operations or more frequently if so required by the Employer. This might include night-time activities.
- Records of all noise level measurements for the duration of the contract shall be kept. These records shall be submitted to the project on agreed timeframes.
- Provide monthly report for Dust and Noise separately to the client.

2.6.3 Calibration and Maintenance

- The Consultant is required to maintain and calibrate the fall out dust collectors system.
- All equipment used shall be calibrated as per the manufacture specification.

2.6.4 Data management

- Records of all dust level measurements for the duration of the contract must be submitted by the Consultant to the Employer as and when required.
- The Consultant will be required to undertake bulk sampling quarterly to determine possible impacts.

2.6.5 Environmental Monitoring Committee

- The Consultant will be required to present to Environmental Monitoring Committee (EMC) stakeholders through power point presentations for all the monitoring undertaken and be responsible for response to authorities.

2.6.6 Laboratory Analysis

- All dust monitoring samples must be collected and taken to the accredited laboratory.

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2.7 Timeframe

The contract duration for this service is for thirty five (35) months.

3. Acceptance

This document has been seen and accepted by:

Name	Designation
Vusi Mlandu	Site Project Manager
Phindile Khanyile	NEC Contracts Manager
Marike Landman	Safety, Health and Environmental Manager
Saihendra Govindasami	Engineering - Civil
Tsholofelo Sehebeng	Senior Advisor Projects

4. Revisions

Date	Rev.	Compiler	Remarks
December 2020	1	D Nkosi	Develop the scope of work for sourcing dust and noise services.
August 2021	2	D Sereme	To remove the PM10 and PM2.5 monitoring.
January 2022	3	D Sereme	To update the background/ introduction section.

5. Development Team

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

- Mbekezeli Ndaba
- Delisiwe Sereme

6. Acknowledgements

N/A

7. List of Appendices

Appendix 1 – Integrated Environmental Authorization

Appendix 2 – Amended Environmental Management Programme

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Appendix 3 – Water Use Licence

Appendix 4 – Air Quality Basic Evaluation Report

Appendix 5 – Environmental Noise Impacts Report

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