

	Specification	Kusile Power Station
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Title: Kusile Power Station: Health and Reproduction Rates of the Chickens at Kendal Poultry Farm Monitoring Scope of Work

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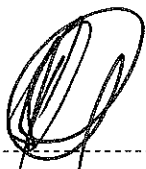
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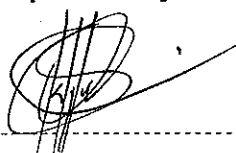
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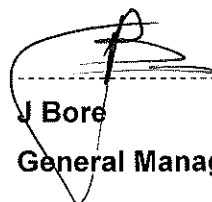
Functional Responsibility



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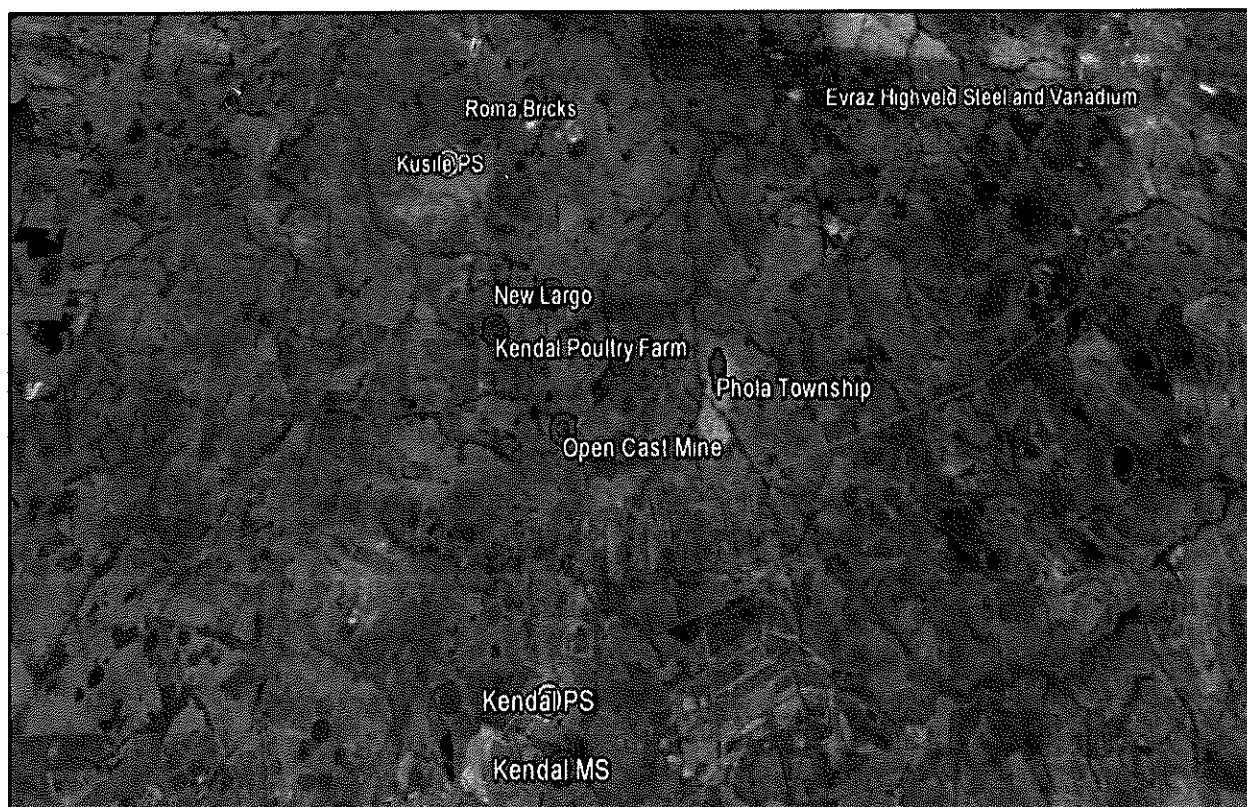
1. Introduction

The operation of a power station has an impact on the environment including the impacts on air quality which could affect the health and reproduction of the chickens at Kendal Poultry Farm. In order to establish whether the operation of Kusile Power Station will have significant impact on the chickens at Kendal Poultry Farm, monitoring of the health and reproduction of the chickens of Kendal Poultry Farm will be implemented.

The monitoring will also assist Kusile Power Station to comply with Condition 3.10.3 of the Record of Decision dated 17 March 2008 issued to the power station.

2. Site Location

The Kendal Poultry Farm is located at co-ordinates: -25.978832°, 28.942892° (Figure 1). Kusile Power Station site is 7.5km to the north-north-west of the Kendal Poultry Farm.



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3. Supporting Clauses

3.1 Scope

3.1.1 Purpose

The purpose of this document is to define the scope of work for monitoring health and reproduction rates of the chickens at Kendal Poultry Farm.

3.1.2 Applicability

This document is applicable to Kusile Power Station

3.1.3 Effective date

The scope of work shall be effective immediately after signature.

3.2 Normative/Informative References

3.2.1 Normative

1. National Environmental Management: Air Quality Act 39 of 2004
2. National Environmental Management Act, Act No 107 of 1998
3. Record of Decision dated 17 March 2018 issued by Department of Environmental Affairs.



3.2.2 Informative

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

1. 32-727 Safety, Health, Environmental and Quality (SHEQ) Policy
2. 32-288 Policy Procurement and Supply Chain Management Standard
3. 32-599 Standard Procurement and Supply Chain Management Standard
4. Kusile Power Station Environmental Management Plan for Operation and Maintenance

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3.3 Definitions

3.3.1 Environment

Surrounding within which an organisation operates including air, water, land, natural resources, flora, fauna, humans and their interrelations.

3.3.2 Significant impact

Change to the environment (that might also be due to accumulative effect) that is not tolerable of life. Significance in terms of environmental management is solely based on measurements supporting changes.

3.3.3 Service Provider

Selected service provider employed to provide a specific service to Eskom, Kusile Power Station.

3.3.4 Employer

Eskom Kusile Power Station or Representative.

3.4 Abbreviations

Abbreviation	Explanation
SHEQ	Safety, Health, Environment and Quality
SANS	South African National Standard

3.5 Roles and Responsibilities

Environmental Department

- To monitor health and reproduction rates of the chickens at Kendal Poultry Farm.
- To analyse data to establish whether there has been any increase in chicken fatality or decrease in their reproduction rates.
- Present the results to Kusile Power Station Management

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Contractor

- The contractor will be responsible to monitor health and reproduction rates of the chickens at Kendal Poultry Farm.
- Analyse results and look at possible environmental impacts Kusile Power Station operations activities have to the chicken's farm.
- This information must indicate the number of fatalities per 1000 chickens and the number of new chickens per 1000 hens considering all contributory factors.
- Preparation of quarterly report after each assessment and should indicate various parameter monitored sources level of impacts. This should also take cognisance of environmental regulations and standards.

3.6 Process for Monitoring

This specification will be reviewed after every 24 months after the initial authorisation or when necessary.

4. Scope of Work

4.1 Health and reproduction rate of the chickens of Kendal Poultry Farm Monitoring

- Collect samples on quarterly basis from strategic locations with respect to the farm and should cover various environmental media such as water and air quality and perform laboratory tests.
- Analyse the results and reflect possible environmental impacts Kusile Power Station operational activities have to the chicken's farm. This should outline detailed impact and possible impacts and possible sources of such impacts on the health and reproduction rate of the chickens.
- Indicate the number of fatalities per 1000 chickens and the number of new chickens per 1000 hens considering all contributory factors.
- Submit quarterly report after each assessment and should indicate various parameter monitored, sources and level of impacts. This should also take cognisance of environmental regulations and standards.

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- Analysis of results should be done at the lab accredited by SANS or equivalent accreditation body.

4.2 Reporting

- Submit results on quarterly basis, via email and post in a standardised format acceptable to Eskom. This information must indicate the number of fatalities per 1000 chickens and the number of new chickens per 1000 hens considering all contributing factors.
- The results interpretation report should include, but not limited to, interpretation of the results and trends represented in graphs and recommendations for improvement.

4.3 General information regarding health and safety

- Kusile Power Station is fully committed to protecting the health and safety of employees, consultants, visitors and members of the public. Occupational health and safety is a core value in Eskom and the belief is that all unsafe acts and incidents are preventable and this belief guides our approach to safety across our business activities.
- The Eskom Safety, Health, Environment and Quality Policy is available from the Kusile Safety Department.

4.4 ESKOM SHEQ Policy and Life Saving Rules

- There are 5 lifesaving rules that have been identified by Eskom. Failure to adhere to these rules by any Eskom employee or employee of any Principal Consultant or Consultant will be considered a serious transgression. These rules are being implemented to prevent serious injury or death of any employee, labour broker or consultant working in any area within Eskom.
- Kusile Management team will take a stance of zero tolerance on these rules.
- Non-compliance to a lifesaving rule will be considered serious misconduct and will lead to serious disciplinary action, which may include permanent access restriction to Eskom's consultant site.
- This is to ensure that every person who works on or visits Kusile Power Station returns home safely to his or her family.

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- The Consultant shall at all times comply with the health and safety requirements prescribed by law as they may apply to the services.

5. Project Acceptance Criteria

- Service provider and personnel shall be an agricultural scientist or veterinary specialist with minimum experience of at least three (3) years in working with chickens and air quality.
- Submit methodology for analyses to be used in the sampling and monitoring the chicken health and air quality.
- Accredited laboratory to be used for analysis.
- CV's and qualifications of personnel to be involved in the project
- At least 2 reserve personnel to ensure continuous monitoring in case of emergency.
- Letter of good standing (assurance- for in case if they get injured while on site).
- Company Safety Health and Environmental Policy (signed by CEO).
- Acknowledgement Eskom rules and requirements.

6. Acceptance

This document has been seen and accepted by:

Name	Designation
Sipho Shabangu	Risk & Assurance Group Manager
Lesiba Kgobe	Environmental Management Manager
Tumi Modiga	Manager Support Services
Ntokozo Mashita	Occupation Hygiene and Safety Manager:

7. Revisions

Date	Rev.	Compiler	Remarks
December 2016	1	C. Malebana	First issue.
December 2019	2	C. Malebana	New template

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8. Development Team

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

- a) Cylia Malebana
- b) Lesiba Kgobe

9. Acknowledgements

None

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