# APPENDIX 1 GENERIC ENVIRONMENTAL MANAGEMENT PROGRAMME (EMPr) FOR THE DEVELOPMENT AND EXPANSION FOR OVERHEAD ELECTRICITY TRANSMISSION AND DISTRIBUTION INFRASTRUCTURE





environmental affairs

Department: Environmental Affairs REPUBLIC OF SOUTH AFRICA

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# INTRODUCTION

#### 1. Background

The National Environmental Management Act, 1998 (Act No. 107 of 1998) (NEMA) requires that an environmental management programme (EMPr) be submitted where an environmental impact assessment (EIA) has been identified as the environmental instrument to be utilised as the basis for a decision on an application for environmental authorisation (EA). The content of an EMPr must either contain the information set out in Appendix 4 of the Environmental Impact Assessment Regulations, 2014, as amended, (EIA Regulations) or must be a generic EMPr relevant to an application as identified and gazetted by the Minister in a government notice. Once the Minister has identified, through a government notice, that a generic EMPr is relevant to an application for EA, that generic EMPr must be applied by all parties involved in the EA process, including, but not limited to, the applicant and the competent authority (CA).

#### 2. Purpose

This document constitutes a generic EMPr relevant to applications for the development or expansion of overhead electricity transmission and distribution infrastructure, and all listed and specified activities necessary for the realisation of such infrastructure.

#### 3. Objective

The objective of this generic EMPr is to prescribe and pre-approve generally accepted impact management outcomes and impact management actions, which can commonly and repeatedly be used for the avoidance, management and mitigation of impacts and risks associated with the development or expansion of overhead electricity transmission and distribution infrastructure. The use of a generic EMPr is intended to reduce the need to prepare and review individual EMPrs for applications of a similar nature.

# 4. Scope

The scope of this generic EMPr applies to the development or expansion of overhead electricity transmission and distribution infrastructure requiring EA in terms of NEMA, i.e. with a capacity of 33 kilovolts or more. This generic EMPr applies to activities requiring EA, mainly activity 11 and 47 of the Environmental Impact Assessment Regulations Listing Notice 1 of 2014, as amended, and activity 9 of the Environmental Impact Assessment Regulations Listing Notice 2 of 2014, as amended, and all associated listed or specified activities necessary for the realisation of such infrastructure.

# 5. Structure of this document

This document is structured in three parts with an Appendix as indicated in the table below:

Part	Section	Heading	Content
A		Providesgeneralguidanceandinformationandisnotlegally binding	Definitions, acronyms, roles & responsibilities and documentation and reporting.
В	1	Pre-approved generic EMPr template	Contains generally accepted impact management outcomes and impact management actions required for the avoidance, management and mitigation of impacts and risks associated with the development or expansion of overhead electricity transmission and distribution infrastructure, which are presented in the form of a template that has been pre-approved. The template in this section is to be completed by the contractor, with each completed page signed and dated by the holder of the EA prior to commencement of the activity. Where an impact management outcome is not relevant, the words "not applicable" can be inserted in the template under the "responsible persons" column. Once completed and signed, the template represents the EMPr for the activity approved by the CA and is legally binding. The template <b>is not required</b> to be submitted to the CA as once the generic EMPr is gazetted for implementation, it has been approved by the CA. To allow interested and affected parties access to the pre-approved EMPr template for consideration through the decision-making process, the EAP on behalf of the applicant /proponent must make the hard copy of this EMPr available at a public location and where the applicant has a website, the EMPr should also be made available on such publicly
	2	Site specific information	Contains preliminary infrastructure layout and a declaration that the applicant/holder of the EA will comply with the pre-approved generic EMPr

Part	Section	Heading	Content
			template contained in <u>Part B: Section 1</u> , and understands that the impact management outcomes and impact management actions are <b>legally binding</b> . The preliminary infrastructure layout must be finalized to inform the final EMPr that is to be submitted with the basic assessment report (BAR) or environmental impact assessment report (EIAR), ensuring that all impact management outcomes and actions have been either pre-approved or approved in terms of <u>Part C</u> .
			This section <b>must be</b> submitted to the CA together with the final BAR or EIAR. The information submitted to the CA will be considered to be incomplete should a signed copy of <u>Part B: section 2</u> not be submitted. Once approved, this Section forms part of the EMPr for the development and is legally binding.
С		Site specific sensitivities/ attributes	If any specific environmental sensitivities/ attributes are present on the site which require site specific impact management outcomes and impact management actions, not included in the pre-approved generic EMPr, to manage impacts, these specific impact management outcomes and impact management actions must be included in this section. These specific environmental attributes must be referenced spatially and impact management outcomes and impact management actions must be provided. These specific impact management outcomes and impact management actions must be presented in the format of the pre- approved EMPr template (Part B: section 1) This section will not be required should the site contain no specific environmental sensitivities or attributes. However, if <u>Part C</u> is applicable to the site, it <b>is required</b> to be submitted together with the BAR or EIAR, for consideration of, and
			decision on, the application for EA. The information in this section must be prepared by an EAP, and must contain his/her name and expertise including a curriculum vitae. Once approved, Part C forms part of the EMPr for the site and is legally binding.

Part	Section	Heading	Content
			This section applies only <b>to additional</b> impact management outcomes and impact management actions that are necessary for the avoidance, management and mitigation of impacts and risks associated with the specific development or expansion and which are not already included in <u>Part B: section 1</u> .
Appendix 1			Contains the method statements to be prepared prior to commencement of the activity. The method statements are <b>not</b> <b>required</b> to be submitted to the competent authority.

# 6. Completion of part B: section 1: the pre-approved generic EMPr template

The template is to be completed prior to commencement of the activity, by providing the following information for each environmental impact management action:

- For implementation
  - a 'responsible person',
  - a method for implementation,
  - a timeframe for implementation
- For monitoring
  - a responsible person
  - frequency
  - evidence of compliance.

The completed template must be signed and dated by the holder of the EA prior to commencement of the activity. The method statements prepared and agreed to by the holder of the EA must be appended to the template as <u>Appendix 1</u>. Each method statement must be signed and dated on each page by the holder of the EA. This template, once signed and dated, is legally binding. The holder of the EA will remain responsible for its implementation.

# 7. Amendments of the impact management outcomes and impact management actions

Once the activity has commenced, a holder of an EA may make amendments to the impact management outcomes and impact management actions in the following manner:

- Amendment of the impact management outcomes: in line with the process contemplated in regulation 37 of the EIA Regulations; and
- Amendment of the impact management actions: in line with the process contemplated in regulation 36 of the EIA Regulations.

# 8. Documents to be submitted as part of part B: section 2 site specific information and declaration

<u>Part B: Section 2</u> has three distinct sub-sections. The first and third sub-sections are in a template format. Sub-section two requires a map to be produced.

<u>Sub-section 1</u> contains the project name, the applicant's name and contact details, the site information, which includes coordinates of the corridor in which the proposed overhead electricity transmission and distribution infrastructure is proposed as well as the 21-digit Surveyor General code of each cadastral land parcel and, where available, the farm name.

Sub-section 2 is to be prepared by an EAP and must contain his/her name and expertise including a curriculum vitae. This sub-section must include a map of the site sensitivity overlaid with the preliminary infrastructure layout using the national web based environmental screening tool, when available for compulsory use at: https://screening.environment.gov.za/screeningtool. The sensitivity map shall identify the nature of each sensitive feature e.g. raptor nest, threatened plant species, archaeological site, etc. Sensitivity maps must identify features both within the planned working area and any known sensitive features in the surrounding landscape within 50m from the development footprint. The overhead transmission and distribution profile must be illustrated at an appropriate resolution to enable fine scale interrogation. It is recommended that <20 km of overhead transmission and distribution length is illustrated per page in A3 landscape format. Where considered appropriate, photographs of sensitive features in the context of tower positions must be used.

<u>Sub-section 3</u> is the declaration that the applicant/proponent or holder of the EA in the case of a change of ownership must complete, which confirms that the applicant/EA holder will comply with the pre-approved generic EMPr template in <u>Section 1</u> and understands that the impact management outcomes and actions are legally binding.

# (a) Amendments to Part B: Section 2 – site specific information and declaration

Should the EA be transferred, <u>Part B: Section 2</u> must be completed by the new applicant/proponent and submitted with the application for an amendment of the EA in terms of Regulations 29 or 31 of the EIA Regulations, whichever applies. The information submitted as part of such an application for an amendment to an EA will be considered to be incomplete should a signed copy of <u>Part B: Section 2</u> not be submitted. Once approved, <u>Part B: Section 2</u> forms part of the EMPr for the development and the EMPr becomes legally binding to the new EA holder.

# PART A – GENERAL INFORMATION

#### 1. **DEFINITIONS**

In this EMPr any word or expression to which a meaning has been assigned in the NEMA or EIA Regulations has that meaning, and unless the context requires otherwise –

"clearing" means the clearing and removal of vegetation, whether partially or in whole, including trees and shrubs, as specified;

"construction camp" is the area designated for key construction infrastructure and services, including but not limited to offices, overnight vehicle parking areas, stores, the workshop, stockpile and lay down areas, hazardous storage areas (including fuels), the batching plant (if one is located at the construction camp), designated access routes, equipment cleaning areas and the placement of staff accommodation, cooking and ablution facilities, waste and wastewater management;

"contractor" - The Contractor has overall responsibility for ensuring that all work, activities, and actions linked to the delivery of the contract, are in line with the Environmental Management Programme and that Method Statements are implemented as described.

**"hazardous substance"** is a substance governed by the Hazardous Substances Act, 1973 (Act No. 15 of 1973) as well as the Hazardous Chemical and Substances Regulations, 1995;

"method statement" means a written submission by the Contractor to the Project Manager in response to this EMPr or a request by the Project Manager and ECO. The method statement must set out the equipment, materials, labour and method(s) the Contractor proposes using to carry out an activity identified by the Project Manager when requesting the Method Statement. This must be done in such detail that the Project Manager and ECO is able to assess whether the Contractor's proposal is in accordance with this specification and/or will produce results in accordance with this specification;

The method statement must cover applicable details with regard to:

- (i) Construction procedures;
- (ii) Plant, materials and equipment to be used;
- (iii) Transporting the equipment to and from site;
- (iv) How the plant/ material/ equipment will be moved while on site;
- (v) How and where the plant/ material/ equipment will be stored;
- (vi) The containment (or action to be taken if containment is not possible) of leaks or spills of any liquid or material that may occur;
- (vii) Timing and location of activities;
- (viii) Compliance/ non-compliance; and
- (ix) Any other information deemed necessary by the Project Manager.

"slope" means the inclination of a surface expressed as one unit of rise or fall for so many horizontal units;

"solid waste" means all solid waste, including construction debris, hazardous waste, excess cement/ concrete, wrapping materials, timber, cans, drums, wire, nails, food and domestic waste (e.g. plastic packets and wrappers);

**"spoil**" means excavated material which is unsuitable for use as material in the construction works or is material which is surplus to the requirements of the construction works;

**"topsoil"** means a varying depth (up to 300 mm) of the soil profile irrespective of the fertility, appearance, structure, agricultural potential, fertility and composition of the soil; and

"works" means the works to be executed in terms of the Contract

#### 2. ACRONYMS and ABBREVIATIONS

CA	Competent Authority
cEO	Contractors Environmental Officer
dEO	Developer Environmental Officer
DPM	Developer Project Manager
DSS	Developer Site Supervisor
EAR	Environmental Audit Report
ECA	Environmental Conservation Act No. 73 of 1989
ECO	Environmental Control Officer
EA	Environmental Authorisation
EIA	Environmental Impact Assessment
ERAP	Emergency Response Action Plan
EMPr	Environmental Management Programme
	Report
EAP	Environmental Assessment Practitioner
FPA	Fire Protection Agency
HCS	Hazardous chemical Substance
NEMA	National Environmental Management Act, 1998 (Act No. 107 of 1998)
NEMBA	National Environmental Management: Biodiversity Act ,2004 (Act No. 10 of 2004)
NEMWA	National Environmental Management:
	waste Act, 2008 (Act No. 59 of 2008)
MSDS	Material Safety Data Sheet
RI&AP's	Registered interested and affected parties

# 3. ROLES AND RESPONSIBILITIES FOR ENVIRONMENTAL MANAGEMENT PROGRAMME (EMPr) IMPLEMENTATION

The effective implementation of this generic EMPr is dependent on established and clear roles, responsibilities and reporting lines within an institutional framework. This section of the EMPr gives guidance to the various environmental roles and reporting lines, however, project specific requirements will ultimately determine the need for the appointment of specific person(s) to undertake specific roles and or responsibilities. As such, it must be noted that in the event that no specific person, for example, an environmental control officer (ECO) is appointed, the holder of the EA remains responsible for ensuring that the duties indicated in this document for action by the ECO are undertaken.

Responsible Person (s)	Role and Responsibilities
Developer's Project Manager (DPM)	Role The Project Developer is accountable for ensuring compliance with the EMPr and any conditions of approval from the competent authority (CA). Where required, an environmental control officer (ECO) must be contracted by the Project Developer to objectively monitor the implementation of the EMPr according to relevant environmental legislation, and the conditions of the environmental authorisation (EA). The Project Developer is further responsible for providing and giving mandate to enable the ECO to perform responsibilities, and he must ensure that the ECO is integrated as part of the project team while remaining independent.
	<ul> <li>Responsibilities</li> <li>Be fully conversant with the conditions of the EA;</li> <li>Ensure that all stipulations within the EMPr are communicated and adhered to by the Developer and its Contractor(s);</li> <li>Issuing of site instructions to the Contractor for corrective actions required;</li> <li>Monitor the implementation of the EMPr throughout the project by means of site inspections and meetings. Overall management of the project and EMPr implementation; and</li> <li>Ensure that periodic environmental performance audits are undertaken on the project implementation.</li> </ul>
Developer Site Supervisor (DSS)	Role The DSS reports directly to the DPM, oversees site works, liaises with the contractor(s) and the ECO. The DSS

 Table 1: Guide to roles and responsibilities for implementation of an EMPr

Responsible Person (s)	Role and Responsibilities	
	is responsible for the day to day implementation of the EMPr and for ensuring the compliance of all	
	contractors with the conditions and requirements stipulated in the EMPr.	
	<u>Responsibilities</u>	
	- Ensure that all contractors identify a contractor's Environmental Officer (cEO);	
	- Must be fully conversant with the conditions of the EA. Oversees site works, liaison with Contractor, DPM and ECO;	
	- Must ensure that all landowners have the relevant contact details of the site staff, ECO and cEO;	
	- Issuing of site instructions to the Contractor for corrective actions required:	
	- Will issue all non-compliances to contractors; and	
	- Ratify the Monthly Environmental Report.	
Environmental Control Officer (ECO)	Role	
	The ECO should have appropriate training and experience in the implementation of environmental management specifications. The primary role of the ECO is to act as an independent quality controller and monitoring agent regarding all environmental concerns and associated environmental impacts. In this respect, the ECO is to conduct periodic site inspections, attend regular site meetings, pre-empt problems and suggest mitigation and be available to advise on incidental issues that arise. The ECO is also required to conduct compliance audits, verifying the monitoring reports submitted by the cEO. The ECO provides feedback to the DSS and Project Manager regarding all environmental matters. The Contractor, cEO and dEO are answerable to the Environmental Control Officer for non- compliance with the Performance Specifications as set out in the EA and EMPr.	
	The ECO provides feedback to the DSS and Project Manager, who in turn reports back to the Contractor and potential and Registered Interested &Affected Parties' (RI&AP's), as required. Issues of non- compliance raised by the ECO must be taken up by the Project Manager, and resolved with the Contractor as per the conditions of his contract. Decisions regarding environmental procedures, specifications and requirements which have a cost implication (i.e. those that are deemed to be a variation, not allowed for in the Performance Specification) must be endorsed by the Project Manager. The ECO must also, as specified by the EA, report to the relevant CA as and when required. <u>Responsibilities</u>	

Responsible Person (s)	Role and Responsibilities		
	The responsibilities of the ECO will include the following:		
	<ul> <li>Be aware of the findings and conclusions of all EA related to the development;</li> <li>Be familiar with the recommendations and mitigation measures of this EMPr;</li> <li>Be conversant with relevant environmental legislation, policies and procedures, and ensure compliance with them;</li> <li>Undertake regular and comprehensive site inspections / audits of the construction site according to the generic EMPr and applicable licenses in order to monitor compliance as required;</li> </ul>		
	<ul> <li>Educate the construction team about the management measures contained in the EMPr and environmental licenses;</li> </ul>		
	<ul> <li>environmental licenses;</li> <li>Compilation and administration of an environmental monitoring plan to ensure that the environmental management measures are implemented and are effective;</li> <li>Monitoring the performance of the Contractors and ensuring compliance with the EMPr and associated Method Statements;</li> <li>In consultation with the Developer Site Supervisor order the removal of person(s) and/or equipment which are in contravention of the specifications of the EMPr and/or environmental licenses;</li> <li>Liaison between the DPM, Contractors, authorities and other lead stakeholders on all environmental concerns;</li> <li>Compile a regular environmental audit report highlighting any non-compliance issues as well as satisfactory or exceptional compliance with the EMPr;</li> <li>Validating the regular site inspection reports, which are to be prepared by the contractor Environmental Officer (cEO);</li> </ul>		
	<ul> <li>Checking the CEO's record of environmental incidents (splits, impacts, legal transgressions etc) as well as corrective and preventive actions taken;</li> </ul>		
	<ul> <li>Checking the cEO's public complaints register in which all complaints are recorded, as well as action taken;</li> <li>Assisting in the resolution of conflicts:</li> </ul>		
	<ul> <li>Facilitate training for all personnel on the site – this may range from carrying out the training, to reviewing the training programmes of the Contractor;</li> </ul>		
	<ul> <li>In case of non-compliances, the ECO must first communicate this to the Senior Site Supervisor, who has the power to ensure this matter is addressed. Should no action or insufficient action be taken, the ECO may report this matter to the authorities as non-compliance;</li> </ul>		
	- Maintenance, update and review of the EMPr;		
developer Environmental Officer	Role		

Responsible Person (s)	Role and Responsibilities
(dEO)	The dEOs will report to the Project Manager and are responsible for implementation of the EMPr, environmental monitoring and reporting, providing environmental input to the Project Manager and Contractor's Manager, liaising with contractors and the landowners as well as a range of environmental coordination responsibilities.
	<ul> <li>Be fully conversant with the EMPr;</li> <li>Be familiar with the recommendations and mitigation measures of this EMPr, and implement these measures;</li> <li>Ensure that all stipulations within the EMPr are communicated and adhered to by the Employees, Contractor(s);</li> <li>Confine the development site to the demarcated area;</li> <li>Conduct environmental internal audits with regards to EMPr and authorisation compliance (on cEO);</li> <li>Assist the contractors in addressing environmental challenges on site;</li> <li>Assist in incident management:</li> <li>Reporting environmental incidents to developer and ensuring that corrective action is taken, and lessons learnt shared;</li> <li>Assist the contractor in investigating environmental incidents and compile investigation reports;</li> <li>Follow-up on pre-warnings, defects, non-conformance reports;</li> <li>Measure and communicate environmental performance to the Contractor;</li> <li>Conduct environmental awareness training on site together with ECO and cEO;</li> <li>Ensure that the necessary legal permits and / or licenses are in place and up to date;</li> <li>Acting as Developer's Environmental Representative on site and work together with the ECO and contractor;</li> </ul>
Contractor	Role The Contractor appoints the cEO and has overall responsibility for ensuring that all work, activities, and actions linked to the delivery of the contract are in line with the EMPr and that Method Statements are implemented as described. External contractors must ensure compliance with this EMPr while performing the onsite activities as per their contract with the Project Developer. The contractors are required, where

Responsible Person (s)	Role and Responsibilities
	specified, to provide Method Statements setting out in detail how the impact management actions contained in the EMPr will be implemented during the development or expansion for overhead electricity transmission and distribution infrastructure activities.
	<ul> <li>Responsibilities</li> <li>project delivery and quality control for the development services as per appointment;</li> <li>employ a suitably qualified person to monitor and report to the Project Developer's appointed person on the daily activities on-site during the construction period;</li> <li>ensure that safe, environmentally acceptable working methods and practices are implemented and that equipment is properly operated and maintained, to facilitate proper access and enable any operation to be carried out safely;</li> <li>attend on site meeting(s) prior to the commencement of activities to confirm the procedure and designated activity zones;</li> <li>ensure that contractors' staff repair, at their own cost, any environmental damage as a result of a contravention of the specifications contained in EMPr, to the satisfaction of the ECO.</li> </ul>
contractor Environmental Officer (cEO)	Role Each Contractor affected by the EMPr should appoint a cEO, who is responsible for the on-site implementation of the EMPr (or relevant sections of the EMPr). The Contractor's representative can be the site agent; site engineer; a dedicated environmental officer; or an independent consultant. The Contractor must ensure that the Contractor's Representative is suitably qualified to perform the necessary tasks and is appointed at a level such that she/he can interact effectively with other site Contractors, labourers, the Environmental Control Officer and the public. As a minimum the cEO shall meet the following criteria:
	<ul> <li><u>Responsibilities</u></li> <li>Be on site throughout the duration of the project and be dedicated to the project;</li> <li>Ensure all their staff are aware of the environmental requirements, conditions and constraints with respect to all of their activities on site;</li> <li>Implementing the environmental conditions, guidelines and requirements as stipulated within the EA,</li> </ul>

Responsible Person (s)	Role and Responsibilities
	EMPr and Method Statements;
	- Attend the Environmental Site Meeting;
	- Undertaking corrective actions where non-compliances are registered within the stipulated
	timeframes;
	<ul> <li>Report back formally on the completion of corrective actions;</li> </ul>
	- Assist the ECO in maintaining all the site documentation;
	- Prepare the site inspection reports and corrective action reports for submission to the ECO;
	<ul> <li>Assist the ECO with the preparing of the monthly report; and</li> </ul>
	- Where more than one Contractor is undertaking work on site, each company appointed as a
	Contractor will appoint a cEO representing that company.

# 4. ENVIRONMENTAL DOCUMENTATION REPORTING AND COMPLIANCE

To ensure accountable and demonstrated implementation of the EMPr, a number of reporting systems, documentation controls and compliance mechanisms must be in place for all overhead electricity transmission and distribution infrastructure projects as a minimum requirement.

#### 4.1 Document control/Filing system

The holder of the EA is solely responsible for the upkeep and management of the EMPr file. At a minimum, all documentation detailed below will be stored in the EMPr file. A hard copy of all documentation shall be filed, while an electronic copy may be kept where relevant. A duplicate file will be maintained in the office of the DSS (where applicable). This duplicate file must remain current and up-to-date. The filing system must be updated and relevant documents added as required. The EMPr file must be made available at all times on request by the CA or other relevant authorities. The EMPr file will form part of any environmental audits undertaken as prescribed in the EIA Regulations.

#### 4.2 Documentation to be available

At the outset of the project the following preliminary list of documents shall be placed in the filing system and be accessible at all times:

- Full copy of the signed EA from the CA in terms of NEMA, granting approval for the development or expansion;
- Copy of the generic and site specific EMPr as well as any amendments thereof;
- Copy of declaration of implementing generic EMPr and subsequent approval of site specific EMPr and amendments thereof;
- All method statements;
- Completed environmental checklists;
- Minutes and attendance register of environmental site meetings;
- An up-to-date environmental incident log;
- A copy of all instructions or directives issued;
- A copy of all corrective actions signed off. The corrective actions must be filed in such a way that a clear reference is made to the non-compliance record;
- Complaints register.

# 4.3 Weekly Environmental Checklist

The ECOs are required to complete a Weekly Environmental Checklist, the format of which is to be agreed prior to commencement of the activity. The ECOs are required to sign and date the checklist, retain a copy in the EMPr file and submit a copy of the completed checklist to the DSS on a weekly basis.

The checklists will form the basis for the Monthly Environmental Reports. Copies of all completed checklists will be attached as Annexures to the Environmental Audit Report as required in terms of the EIA Regulations.

#### 4.4 Environmental site meetings

Minutes of the environmental site meetings shall be kept. The minutes must include an attendance register and will be attached to the Monthly Report that is distributed to attendees. Each set of minutes must clearly record "Matters for Attention" that will be reviewed at the next meeting.

4.5 Required Method Statements

The method statement will be done in such detail that the ECOs are enabled to assess whether the contractor's proposal is in accordance with the EMPr.

The method statement must cover applicable details with regard to:

- development procedures;
- materials and equipment to be used;
- getting the equipment to and from site;
- how the equipment/ material will be moved while on site;
- how and where material will be stored;
- the containment (or action to be taken if containment is not possible) of leaks or spills of any liquid or material that may occur;
- timing and location of activities;
- compliance/ non-compliance with the EMPr; and
- any other information deemed necessary by the ECOs.

Unless indicated otherwise by the Project Manager, the Contractor shall provide the following method statements to the Project Manager no less than 14 days prior to the commencement date of the activity:

- Site establishment Camps, Lay-down or storage areas, satellite camps, infrastructure;
- Batch plants;
- Workshop or plant servicing;
- Handling, transport and storage of Hazardous Chemical Substance's;
- Vegetation management Protected, clearing, aliens, felling;
- Access management Roads, gates, crossings etc.;
- Fire plan;
- Waste management transport, storage, segregation, classification, disposal (all waste streams);
- Social interaction complaints management, compensation claims, access to properties etc.;
- Water use (source, abstraction and disposal), access and all related information, crossings and mitigation;
- Emergency preparedness Spills, training, other environmental emergencies;
- Dust and noise management methodologies;
- Fauna interaction and risk management only if the risk was identified wildlife interaction especially on game farms; and
- Heritage and palaeontology management.

The ECOs shall monitor and ensure that the contractors perform in accordance with these method statements. Completed and agreed method statements between the holder of the EA and the contractor shall be captured in Appendix 1.

4.6 Environmental Incident Log (Diary)

The ECOs are required to maintain an up-to-date and current Environmental Incident Log (environmental diary). The Environmental Incident Log is a means to record all environmental incidents and/or all non-compliance notice would not be issued. An environmental incident is defined as:

- Any deviation from the listed impact management actions (listed in this EMPr) that may be addressed immediately by the ECOs. (For example a contractor's staff member littering or a drip tray that has not been emptied);
- Any environmental impact resulting from an action or activity by a contractor in contravention of the environmental stipulations and guidelines listed in the EMPr which as a single event would have a minor impact but which if cumulative and continuous would have a significant effect (for example no toilet paper available in the ablutions for an afternoon); and
- General environmental information such as road kills or injured wildlife.

The ECOs are to record all environmental incidents in the Environmental Incident Log. All incidents regardless of severity must be reported to the Developer. The Log is to be kept in the EMPr file and at a minimum the following will be recorded for each environmental incident:

- The date and time of the incident;
- Description of the incident;
- The name of the Contractor responsible;
- The incident must be listed as significant or minor;
- If the incident is listed as significant, a non-compliance notice must be issued, and recorded in the log;
- Remedial or corrective action taken to mitigate the incident; and
- Record of repeat minor offences by the same contractor or staff member.

The Environmental Incident Log will be captured in the EAR.

# 4.7 Non-compliance

A non-compliance notice will be issued to the responsible contractor by the ECOs via the DSS or Project Manager. The non-compliance notice will be issued in writing; a copy filed in the EMPr file and will at a minimum include the following:

- Time and date of the non-compliance;
- Name of the contractor responsible;
- Nature and description of the non-compliance;
- Recommended / required corrective action; and
- Date by which the corrective action to be completed.
- The contractors shall act immediately when a notice of non-compliance is received and correct whatever is the cause for the issuing of the notice. Complaints

received regarding activities on the development site pertaining to the environment shall be recorded in a dedicated register and the response noted with the date and action taken. The ECO should be made aware of any complaints. Any noncompliance with the agreed procedures of the EMPr is a transgression of the various statutes and laws that define the manner by which the environment is managed. Failure to redress the cause shall be reported to the relevant CA for them to deal with the transgression, as it deems fit. The contractor is deemed not to have complied with the EMPr if, inter alia, There is a deviation from the environmental conditions, impact management outcomes and impact management actions , as approved in generic and site specific EMPr as relevant as set out in the EMPr, which deviation has, or may cause, an environmental impact.

# 4.8 Corrective action records

For each non-compliance notice issued, a documented corrective action must be recorded. On receiving a non-compliance notice from the DSS, the contractor's cEO will ensure that the corrective actions required take place within the stipulated timeframe. On completion of the corrective action the cEO is to issue a Corrective Action Report in writing to the ECOs. If satisfied that the corrective action has been completed, the ECOs are to sign-off on the Corrective Action Report, and attach the report to the non-compliance notice in the EMPr file. A corrective action is considered complete once the report has signed off by the ECOs.

# 4.9 Photographic record

A digital photographic record will be kept. The photographic record will be used to show before, during and post rehabilitation evidence of the project as well used in cases of damages claims if they arise. Each image must be dated and a brief description note attached.

The Contractor shall:

1. Allow the ECOs access to take photographs of all areas, activities and actions.

The ECOs shall keep an electronic database of photographic records which will include:

- 1. Pictures of all areas designated as work areas, camp areas, development sites and storage areas taken before these areas are set up;
- 2. All bunding and fencing;
- 3. Road conditions and road verges;
- 4. Condition of all farm fences;
- 5. Topsoil storage areas;
- 6. All areas to be cordoned off during construction;
- 7. Waste management sites;
- 8. Ablution facilities (inside and out);
- 9. Any non-conformances deemed to be "significant";
- 10. All completed corrective actions for non-compliances;
- 11. All required signage;
- 12. Photographic recordings of incidents;
- 13. All areas before, during and post rehabilitation; and
- 14. Include relevant photographs in the Final Environmental Audit Report.

# 4.10 Complaints register

The ECOs shall keep a current and up-to-date complaints register. The complaints register is to be a record of all complaints received from communities, stakeholders and individuals. The Complaints Record shall:

- 1. Record the name and contact details of the complainant;
- 2. Record the time and date of the complaint;
- 3. Contain a detailed description of the complaint;
- 4. Where relevant and appropriate, contain photographic evidence of the complaint or damage (ECOs to take relevant photographs); and
- 5. Contain a copy of the ECOs written response to each complaint received and keep a record of any further correspondence with the complainant. The ECO's written response will include a description of any corrective action to be taken and must be signed by the Contractor, ECO and affected party. Where a damage claim is issued by the complainant, the ECOs shall respond as described in (section 4.11) below.
- 4.11 Claims for damages

In the event that a Claim for Damages is submitted by a community, landowner or individual, the ECOs shall:

- 1. Record the full detail of the complaint as described in (section 4.10) above;
- 2. The DPM will evaluate the claim and associated damage and submit the evaluation to the Senior Site Representative for approval;
- 3. Following consideration by the DPM, the claim is to be resolved and settled immediately, or the reason for not accepting the claim communicated in writing to the claimant. Should the claimant not accept this, the ECO shall, in writing report the incident to the Developer's negotiator and legal department; and
- 4. A formal record of the response by the ECOs to the claimant as well as the rectification of the method of making payments not amount will be recorded in the EMPr file.
- 4.12 Interactions with affected parties

Open, transparent and good relations with affected landowners, communities and regional staff are an essential aspect to the successful management and mitigation of environmental impacts.

The ECOs shall:

- 1. Ensure that all queries, complaints and claims are dealt within an agreed timeframe;
- 2. Ensure that any or all agreements are documented, signed by all parties and a record of the agreement kept in the EMPr file;
- 3. Ensure that a complaints telephone numbers are made available to all landowners and affected parties; and
- 4. Ensure that contact with affected parties is courteous at all times;

# 4.13 Environmental audits

Internal environmental audits of the activity and implementation of the EMPr must be undertaken. The findings and outcomes must be included in the EMPr file and be submitted to the CA at intervals as indicated in the EA.

An Environmental Audit Report must be prepared monthly. The report will be tabled as the key point on the agenda of the Environmental Site Meeting. The Report is submitted for acceptance at the meeting and the final report will be circulated to the Project Manager and filed in the EMPr file. At a frequency determined by the EA, the ECOs shall submit the monthly reports to the CA. At a minimum the monthly report is to cover the following:

- Weekly Environmental Checklists;
- Deviations and non-compliances with the checklists;
- Non-compliances issued;
- Completed and reported corrective actions;
- Environmental Monitoring;
- General environmental findings and actions; and
- Minutes of the Bi-monthly Environmental Site Meetings.
- 4.14 Final environmental audits

On final completion of the rehabilitation and/or requirements of the EA a final EAR is to be prepared and submitted to the CA. The EAR must comply with Appendix 7 of the EIA Regulations.

# PART B: SECTION 1: Pre-approved generic EMPr template

# 5. IMPACT MANAGEMENT OUTCOMES AND IMPACT MANAGEMENT ACTIONS

This section provides a pre-approved generic EMPr template with aspects that are common to the development of overhead electricity transmission and distribution infrastructure. There is a list of aspects identified for the development or expansion of overhead electricity transmission and distribution infrastructure, and for each aspect a set of prescribed impact management outcomes and associated impact management actions have been identified. Holders of EAs are responsible to ensure the implementation of these outcomes and actions for all projects as a minimum requirement, in order to mitigate the impact of such aspects identified for the development or expansion of overhead electricity transmission and distribution infrastructure.

The template provided below is to be completed by providing the information under each heading for each environmental impact management action.

The completed template must be signed and dated on each page by both the contractor and the holder of the EA prior to commencement of the activity. The method statements prepared and agreed to by the holder of the EA must be appended to the template as Appendix 1. Each method statement must also be duly signed and dated on each page by the contactor and the holder of the EA. This template, once signed and dated, is legally binding. The holder of the EA will remain responsible for its implementation.

# 5.1 Environmental awareness training

Impact management outcome: All onsite staff are aware and understands the individual responsibilities in terms of this EMPr.										
Impact Management Actions	Implementation			Monitoring	Monitoring					
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance				
<ul> <li>All staff must receive environmental awareness training prior to commencement of the activities;</li> </ul>										
<ul> <li>The Contractor must allow for sufficient sessions to train all personnel with no more than 20 personnel attending each course;</li> </ul>										
<ul> <li>Refresher environmental awareness training is available as and when required;</li> </ul>										
<ul> <li>All staff are aware of the conditions and controls linked to the EA and within the EMPr and made aware of their individual roles and responsibilities in achieving compliance with the EA and EMPr;</li> </ul>										
<ul> <li>The Contractor must erect and maintain information posters at key locations on site, and the posters must include the following information as a minimum:</li> <li>a)Safety notifications; and</li> </ul>										
<ul> <li>b) No littering.</li> <li>Environmental awareness training must include as a minimum the following:</li> </ul>										
a) Description of significant environmental impacts, actual or potential, related to their work activities;										
b) Mitigation measures to be implemented when carrying out specific activities;										
c) Emergency preparedness and response										

procedures;			
d) Emergency procedures;			
e) Procedures to be followed when working near or			
within sensitive areas;			
f) Wastewater management procedures;			
g) Water usage and conservation;			
<ul> <li>h) Solid waste management procedures;</li> </ul>			
i) Sanitation procedures;			
j)Fire prevention; and			
k) Disease prevention.			
- A record of all environmental awareness training courses			
undertaken as part of the EMPr must be available;			
<ul> <li>Educate workers on the dangers of open and/or unattended</li> </ul>			
fires;			
- A staff attendance register of all staff to have received			
environmental awareness training must be available.			
- Course material must be available and presented in			
appropriate languages that all staff can understand.			

# 5.2 Site Establishment development

**Impact management outcome:** Impacts on the environment are minimised during site establishment and the development footprint are kept to demarcated development area.

Impact Management Actions	Implementati	on		Monitoring		
		1				
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
<ul> <li>A method statement must be provided by the contractor prior to any onsite activity that includes the layout of the construction camp in the form of a plan showing the location of key infrastructure and services (where applicable), including but not limited to offices, overnight vehicle parking areas, stores, the workshop, stockpile and lay down areas, hazardous materials storage areas (including fuels), the batching plant (if one is located at the construction camp), designated access routes, equipment cleaning areas and the placement of staff accommodation, cooking and ablution facilities, waste and wastewater management;</li> <li>Location of camps must be within approved area to ensure that the site does not impact on sensitive areas identified in the environmental assessment or site walk through;</li> <li>Sites must be located where possible on previously disturbed areas;</li> </ul>	person	implementation	implementation	person		compliance
Foncing and acto installation: and						
The use of existing accommodation for contractor staff where						
possible, is encouragea.						

# 5.3 Access restricted areas

Impact management outcome: Access to restricted areas prevented.									
Impact Management Actions	Implementati	on		Monitoring					
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of			
	person	implementation	implementation	person		compliance			
<ul> <li>Identification of access restricted areas is to be informed by the environmental assessment, site walk through and any additional areas identified during development;</li> <li>Erect, demarcate and maintain a temporary barrier with clear signage around the perimeter of any access restricted area, colour coding could be used if appropriate; and</li> <li>Unauthorised access and development related activity inside access restricted areas is prohibited.</li> </ul>									
5.4 Access roads	•			•	-	•			

Impact management outcome: Minimise impact to the environment through the planned and restricted movement of vehicles on site.

Impact Management Actions	Implementati	Implementation			Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of	
	person	implementation	implementation	person		compliance	
<ul> <li>Access to the servitude and tower positions must be negotiated with the relevant landowner and must fall within the assessed and authorised area;</li> <li>An access agreement must be formalised and signed by the DPM, Contractor and landowner before commencing with the activities;</li> </ul>							

_	The access roads to tower positions must be signposted after			
	access has been negotiated and before the			
	commencement of the activities;			
_	All private roads used for access to the servitude must be			
	maintained and upon completion of the works, be left in at			
	least the original condition			
-	All contractors must be made aware of all these access			
	routes.			
-	Any access route deviation from that in the written			
	agreement must be closed and re-vegetated immediately,			
	at the contractor's expense;			
_	Maximum use of both existing servitudes and existing roads			
	must be made to minimize further disturbance through the			
	development of new roads;			
-	In circumstances where private roads must be used, the			
	condition of the said roads must be recorded in accordance			
	with section 4.9: photographic record; prior to use and the			
	condition thereof agreed by the landowner, the DPM, and			
	the contractor;			
_	Access roads in flattish areas must follow fence lines and tree			
	belts to avoid fragmentation of vegetated areas or			
	croplands			
-	Access roads must only be developed on pre-planned and			
	approved roads.			

# 5.5 Fencing and Gate installation

**Impact management outcome:** Minimise impact to the environment and ensure safe and controlled access to the site through the erection of fencing and gates where required.

Imp	act Management Actions	Implementati	on		Monitoring		
						-	
		Responsible	Method of	limetrame for	Responsible	Frequency	Evidence of
		person	implementation	implementation	person		compliance
-	Use existing gates provided to gain access to all parts of the						
	area authorised for development, where possible;						
-	Existing and new gates to be recorded and documented in						
	accordance with section 4.9: photographic record;						
-	All gates must be fitted with locks and be kept locked at all						
	times during the development phase, unless otherwise						
	agreed with the landowner;						
-	At points where the line crosses a fence in which there is no						
	suitable gate within the extent of the line servitude, on the						
	instruction of the DPM, a gate must be installed at the						
	approval of the landowner;						
_	Care must be taken that the gates must be so erected that						
	there is a gap of no more than 100 mm between the bottom						
	of the gate and the ground;						
_	Where gates are installed in jackal proof fencing, a suitable						
	reinforced concrete sill must be provided beneath the gate;						
_	Original tension must be maintained in the fence wires;						
_	All gates installed in electrified fencing must be re-electrified;						
_	All demarcation fencing and barriers must be maintained in						
	good working order for the duration of overhead						
	transmission and distribution electricity infrastructure						
	development activities;						
_	Fencing must be erected around the camp, batching						
	plants, hazardous storage areas, and all designated access						

	restricted areas, where appropriate and would not cause				
	harm to the sensitive flora;				
_	Any temporary fencing to restrict the movement of life-stock				
	must only be erected with the permission of the land owner.				
_	All fencing must be developed of high quality material				
	bearing the SABS mark;				
-	The use of razor wire as fencing must be avoided;				
-	Fenced areas with gate access must remain locked after				
	hours, during weekends and on holidays if staff is away from				
	site. Site security will be required at all times;				
-	On completion of the development phase all temporary				
	fences are to be removed;				
_	The contractor must ensure that all fence uprights are				
	appropriately removed, ensuring that no uprights are cut at				
	ground level but rather removed completely.				

#### 5.6 Water Supply Management

Impact management outcome: Undertake responsible water usage.

Impact Management Actions	Implementati	on		Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
- All abstraction points or bore holes must be registered with						
the DWS and suitable water meters installed to ensure that						
the abstracted volumes are measured on a daily basis;						
<ul> <li>The Contractor must ensure the following:</li> </ul>						
a. The vehicle abstracting water from a river does not enter						

a.	ine use of grey water is encouraged.			
d	The use of arevuwater is encouraged			
dur	ing environmental awareness training.			
с.	Including a discussion on water usage and conservation			
υ.				
h	Undertaking regular gudits of water systems: and			
a.	Minimising water use during cleaning of equipment:			
– Ens	ure water conservation is being practiced by:			
imp	lemented.			
sec	imentation of the downstream watercourse are			
С.				
c c	All reasonable measures to limit pollution or			
act	ivities: and			
the	abstraction of water does not entail stream diversion			
b.	No damage occurs to the river bed or banks and that			
orc	cross it and does not operate from within the river;			

5.7 Storm and waste water management

Impact management outcome: Impacts to the environment caused by storm water and wastewater discharges during construction are avoided.

Impact Management Actions	Implementati	on		Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
<ul> <li>Runoff from the cement/ concrete batching areas must be strictly controlled, and contaminated water must be collected, stored and either treated or disposed of off-site, at a location approved by the project manager;</li> <li>All spillage of oil onto concrete surfaces must be controlled by the use of an approved absorbent material and the used absorbent material disposed of at an appropriate waste disposal facility;</li> <li>Natural storm water runoff not contaminated during the</li> </ul>						

development and clean water can be discharged			
directly to watercourses and water bodies, subject to the			
Project Manager's approval and support by the ECO;			
- Water that has been contaminated with suspended solids,			
such as soils and silt, may be released into watercourses or			
water bodies only once all suspended solids have been			
removed from the water by settling out these solids in			
settlement ponds. The release of settled water back into the			
environment must be subject to the Project Manager's			
approval and support by the ECO.			

# 5.8 Solid and hazardous waste management

Impact management outcome: Waste is appropriately stored, handled and safely disposed of at a recognised waste facility.

Impact Management Actions	Implementation			Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
– All measures regarding waste management must be						
undertaken using an integrated waste management						
approach;						
- Sufficient, covered waste collection bins (scavenger and						
weatherproof) must be provided;						
- A suitably positioned and clearly demarcated waste						
collection site must be identified and provided;						
- The waste collection site must be maintained in a clean and						
orderly manner;						

_	Waste must be segregated into separate bins and clearly			
	marked for each waste type for recycling and safe disposal;			
_	Staff must be trained in waste segregation;			
_	Bins must be emptied regularly;			
_	General waste produced onsite must be disposed of at			
	registered waste disposal sites/ recycling company;			
_	Hazardous waste must be disposed of at a registered waste			
	disposal site;			
_	Certificates of safe disposal for general, hazardous and			
	recycled waste must be maintained.			

# 5.9 Protection of watercourses and estuaries

Impact management outcome: Pollution and contamination of the watercourse environment and or estuary erosion are prevented.

Impact Management Actions	Implementati	on		Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
- All watercourses must be protected from direct or indirect						
spills of pollutants such as solid waste, sewage, cement, oils,						
fuels, chemicals, aggregate tailings, wash and						
contaminated water or organic material resulting from						
the Contractor's activities;						
– In the event of a spill, prompt action must be taken to clear						
the polluted or affected areas;						
- Where possible, no development equipment must traverse						
any seasonal or permanent wetland						
- No return flow into the estuaries must be allowed and no						
disturbance of the Estuarine Functional Zone should occur;						

<ul> <li>Development of permanent watercourse</li> </ul>	or estuary crossing			
must only be undertaken where no alte	rnative access to			
tower position is available;				
– There must not be any impact on	the long term			
morphological dynamics of watercourses of	or estuaries;			
- Existing crossing points must be favored ov	ver the creation of			
new crossings (including temporary access	)			
- When working in or near any watercour	se or estuary, the			
following environmental controls and cons	sideration must be			
taken:				
a) Water levels during the period of cons	ruction;			
No altering of the bed, banks, course or c	haracteristics of a			
watercourse				
b) During the execution of the wo	orks, appropriate			
measures to prevent pollution and con	amination of the			
riparian environment must be implement	ed e.g. including			
ensuring that construction equipment is we	Il maintained;			
c) Where earthwork is being undertaker	in close proximity			
to any watercourse, slopes must be stabil	ised using suitable			
materials, i.e. sandbags or geotextile fabri	c, to prevent sand			
and rock from entering the channel; and				
d) Appropriate rehabilitation and re-ve	getation measures			
for the watercourse banks must be imple	mented timeously.			
In this regard, the banks should be c	ppropriately and			
incrementally stabilised as soon as develop	oment allows.			

5.10 Vegetation clearing

Impact management outcome: Vegetation clearing is restricted to the authorised development footprint of the proposed infrastructure.

Impact Management Actions	Implementation		Monitoring			
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
General:						
- Indigenous vegetation which does not interfere with the						
development must be left undisturbed;						
<ul> <li>Protected or endangered species may occur on or near the</li> </ul>						
development site. Special care should be taken not to						
damage such species;						
- Search, rescue and replanting of all protected and						
endangered species likely to be damaged during project						
development must be identified by the relevant specialist						
and completed prior to any development or clearing;						
- Permits for removal must be obtained from the Department						
of Agriculture, Forestry and Fisheries prior to the cutting or						
clearing of the attected species, and they must be filed;						
– The Environmental Audit Report must confirm that all						
identified species have been rescued and replanted and						
that the location of replanting is compliant with conditions of						
approvais;						
- Irees telled due to construction must be documented and						
form part of the Environmental Aualt Report;						
- Rivers and watercourses must be kept clear of felled frees,						
vegetation cuttings and debris;						
- Only a registered pest control operator may apply						
application must be carried out under the supervision of a						
application must be carried out under the supervision of a						
registered pest control operator, supervision of a registered						
	pest control operator or is appropriately trained;					
------	---	--	--	--		
_	A daily register must be kept of all relevant details of					
	herbicide usage;					
_	No herbicides must be used in estuaries;					
-	All protected species and sensitive vegetation not removed					
	must be clearly marked and such areas fenced off in					
	accordance to Section 5.3: Access restricted areas.					
Serv	itude:					
_	Vegetation that does not grow high enough to cause					
	interference with overhead transmission and distribution					
	infrastructures, or cause a fire hazard to any plantation, must					
	not be cut or trimmed unless it is growing in the road access					
	area, and then only at the discretion of the Project					
	Manager;					
-	Where clearing for access purposes is essential, the					
	maximum width to be cleared within the servitude must be in					
	accordance to distance as agreed between the land					
	owner and the EA holder					
_	Alien invasive vegetation must be removed according to a					
	plan (in line with relevant municipal and provincial					
	procedures, guidelines and recommendations) and					
	disposed of at a recognised waste disposal facility;					
_	Vegetation must be trimmed where it is likely to intrude on					
	the minimum vegetation clearance distance (MVCD) or will					
	intrude on this distance before the next scheduled					
	clearance. MVCD is determined from SANS 10280;					
_	Debris resulting from clearing and pruning must be disposed					
	of at a recognised waste disposal facility, unless the					
	landowners wish to retain the cut vegetation;					
-	In the case of the development of new overhead					
	transmission and distribution infrastructures, a one metre					
	"trace-line" must be cut through the vegetation for stringing					

purposes only and no vehicle access must be cleared along			
the "trace-line". Alternative methods of stringing which limit			
impact to the environment must always be considered.			

5.11 Protection of fauna

Impact management outcome: Minimise disturbance to fauna.

Impact Management Actions	Implementati	on		Monitoring			
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of	
	person	implementation	implementation	person	,	compliance	
- No interference with livestock must occur without the							
landowner's written consent and with the landowner or							
a person representing the landowner being present;							
- The breeding sites of raptors and other wild birds species							
must be taken into consideration during the planning of the							
development programme;							
<ul> <li>Breeding sites must be kept intact and disturbance to</li> </ul>							
breeding birds must be avoided. Special care must be taken							
where nestlings or fledglings are present;							
<ul> <li>Nesting sites on existing parallel lines must documented;</li> </ul>							
- Special recommendations of the avian specialist must be							
adhered to at all times to prevent unnecessary disturbance							
of birds;							
<ul> <li>Bird guards and diverters must be installed on the new line as</li> </ul>							
per the recommendations of the specialist;							
<ul> <li>No poaching must be tolerated under any circumstances.</li> </ul>							
All animal dens in close proximity to the works areas must be							
marked as Access restricted areas;							
<ul> <li>No deliberate or intentional killing of fauna is allowed;</li> </ul>							

<ul> <li>In areas where snakes are abundant, snake deterrents to be deployed on the pylons to prevent snakes climbing up, being electrocuted and causing power outages; and</li> <li>No Threatened or Protected species (ToPs) and/or protected fauna as listed according NEMBA (Act No. 10 of 2004) and relevant provincial ordinances may be removed and/or relocated without appropriate authorisations/permits.</li> </ul>	
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# 5.12 Protection of heritage resources

Impact management outcome: Minimise impact to heritage resources.

Impact Management Actions	Implementati	nplementation			Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of	
	person	implementation	implementation	person		compliance	
- Identify, demarcate and prevent impact to all known							
sensitive heritage features on site in accordance with the							
No-Go procedure in Section 5.3: Access restricted areas;							
- Carry out general monitoring of excavations for potential							
fossils, artefacts and material of heritage importance;							
- All work must cease immediately, if any human remains							
and/or other archaeological, palaeontological and							
historical material are uncovered. Such material, if exposed,							
must be reported to the nearest museum, archaeologist/							
palaeontologist (or the South African Police Services), so that							
a systematic and professional investigation can be							
undertaken. Sufficient time must be allowed to							

remove/collect such material before development recommences.										
remove/collect such material before development	recommences.									
	remove/collect	such	material	before	development					

#### 5.13 Safety of the public

Impact management outcome: All precautions are taken to minimise the risk of injury, harm or complaints.

Impact Management Actions	Implementati	on	Moniforing			
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
<ul> <li>Identify fire hazards, demarcate and restrict public access to</li> </ul>						
these areas as well as notify the local authority of any						
potential threats e.g. large brush stockpiles, fuels etc.;						
– All unattended open excavations must be adequately						
fenced or demarcated;						
- Adequate protective measures must be implemented to						
prevent unauthorised access to and climbing of partly						
constructed towers and protective scaffolding;						
<ul> <li>Ensure structures vulnerable to high winds are secured;</li> </ul>						
- Maintain an incidents and complaints register in which all						
incidents or complaints involving the public are logged.						

## 5.14 Sanitation

**Impact management outcome:** Clean and well maintained toilet facilities are available to all staff in an effort to minimise the risk of disease and impact to the environment.

Impact Management Actions	Implementation	Monitoring

	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance
<ul> <li>Mobile chemical toilets are installed onsite if no other ablution facilities are available;</li> <li>The use of ablution facilities and or mobile toilets must be used at all times and no indiscriminate use of the veld for the purposes of ablutions must be permitted under any circumstances;</li> <li>Where mobile chemical toilets are required, the following must be ensured: <ul> <li>a) Toilets are located no closer than 100 m to any watercourse or water body;</li> <li>b) Toilets are secured to the ground to prevent them from toppling due to wind or any other cause;</li> <li>c) No spillage occurs when the toilets are cleaned or emptied and the contents are managed in accordance with the EMPr;</li> <li>d) Toilets are emptied before long weekends and workers holidays, and must be locked after working hours;</li> <li>f) Toilets are serviced regularly and the ECO must inspect toilets to ensure compliance to health standards;</li> <li>A copy of the waste disposal certificates must be maintained.</li> </ul> </li> </ul>						

Impact Management outcome: All necessary precautions linked to the spread of disease are taken.										
Impact Management Actions	Implementati	on		Monitoring						
	Implemental			Monitoring						
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of				
	person	implementation	implementation	person		compliance				
<ul> <li>Undertake environmentally-friendly pest control in the camp area;</li> <li>Ensure that the workforce is sensitised to the effects of sexually transmitted diseases, especially HIV AIDS;</li> <li>The Contractor must ensure that information posters on AIDS are displayed in the Contractor Camp area;</li> <li>Information and education relating to sexually transmitted diseases to be made available to both construction workers and local community, where applicable;</li> <li>Free condoms must be made available to all staff on site at central points;</li> <li>Medical support must be made available;</li> </ul>										
<ul> <li>Provide access to Voluntary HIV Testing and Counselling Services.</li> </ul>										

## 5.16 Emergency procedures

Impact management outcome: Emergency procedures are in place to enable a rapid and effective response to all types of environmental emergencies.

Impact Management Actions	Implementati	Implementation			Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of	
	person	implementation	implementation	person		compliance	
<ul> <li>Compile an Emergency Response Action Plan (ERAP) prior to the commencement of the proposed project;</li> <li>The Emergency Plan must deal with accidents, potential spillages and fires in line with relevant legislation;</li> <li>All staff must be made aware of emergency procedures as part of environmental awareness training;</li> <li>The relevant local authority must be made aware of a fire as soon as it starts;</li> <li>In the event of emergency necessary mitigation measures to contain the spill or leak must be implemented (see Hazardous Substances section 5.17).</li> </ul>							
5.17 Hazardous substances							

Impact management outcome: Safe storage, handling, use and disposal of hazardous substances.

Impact Management Actions	Implementati	on	Monitoring			
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
– The use and storage of hazardous substances to be						
minimised and non-hazardous and non-toxic alternatives						

	substituted where possible;			
_	All hazardous substances must be stored in suitable			
	containers as defined in the Method Statement;			
_	Containers must be clearly marked to indicate contents,			
	quantities and safety requirements;			
_	All storage areas must be bunded. The bunded area must			
	be of sufficient capacity to contain a spill / leak from the			
	stored containers;			
_	Bunded areas to be suitably lined with a SABS approved			
	liner;			
_	An Alphabetical Hazardous Chemical Substance (HCS)			
	control sheet must be drawn up and kept up to date on a			
	continuous basis;			
_	All hazardous chemicals that will be used on site must have			
	Material Safety Data Sheets (MSDS);			
_	All employees working with HCS must be trained in the safe			
	use of the substance and according to the safety data			
	sheet;			
_	Employees handling hazardous substances / materials must			
	be aware of the potential impacts and follow appropriate			
	safety measures. Appropriate personal protective			
	equipment must be made available;			
_	The Contractor must ensure that diesel and other liquid fuel,			
	oil and hydraulic fluid is stored in appropriate storage tanks			
	or in bowsers;			
_	The tanks/ bowsers must be situated on a smooth			
	impermeable surface (concrete) with a permanent bund.			
	The impermeable lining must extend to the crest of the bund			
	and the volume inside the bund must be 130% of the total			
	capacity of all the storage tanks/ bowsers (110% statutory			
	requirement plus an allowance for rainfall);			

_	The floor of the bund must be sloped, draining to an oil			
	separator;			
-	Provision must be made for refueling at the storage area by			
	protecting the soil with an impermeable groundcover.			
	Where dispensing equipment is used, a drip tray must be			
	used to ensure small spills are contained;			
_	All empty externally dirty drums must be stored on a drip tray			
	or within a bunded area;			
_	No unauthorised access into the hazardous substances			
	storage areas must be permitted;			
_	No smoking must be allowed within the vicinity of the			
	hazardous storage areas;			
_	Adequate fire-fighting equipment must be made available			
	at all hazardous storage areas;			
-	Where refueling away from the dedicated refueling station is			
	required, a mobile refueling unit must be used. Appropriate			
	ground protection such as drip trays must be used;			
_	An appropriately sized spill kit kept onsite relevant to the			
	scale of the activity/s involving the use of hazardous			
	substance must be available at all times;			
-	The responsible operator must have the required training to			
	make use of the spill kit in emergency situations;			
-	An appropriate number of spill kits must be available and			
	must be located in all areas where activities are being			
	undertaken;			
-	In the event of a spill, contaminated soil must be collected in			
	containers and stored in a central location and disposed of			
	according to the National Environmental Management:			
	Waste Act 59 of 2008. Refer to Section 5.7 for procedures			
	concerning storm and waste water management and 5.8 for			
	solid and hazardous waste management.			

Impact management outcome: Soil, surface water and groundwater contamination is minimised.

Impact Management Actions	Implementation			Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
- Where possible and practical all maintenance of vehicles						
and equipment must take place in the workshop area;						
- During servicing of vehicles or equipment, especially where						
emergency repairs are effected outside the workshop area,						
a suitable drip tray must be used to prevent spills onto the						
soil. The relevant local authority must be made aware of a						
fire as soon as it starts;						
- Leaking equipment must be repaired immediately or be						
removed from site to facilitate repair;						
<ul> <li>Workshop areas must be monitored for oil and fuel spills;</li> </ul>						
<ul> <li>Appropriately sized spill kit kept onsite relevant to the scale</li> </ul>						
of the activity taking place must be available;						
<ul> <li>The workshop area must have a bunded concrete slab that</li> </ul>						
is sloped to facilitate runoff into a collection sump or suitable						
oil / water separator where maintenance work on vehicles						
and equipment can be performed;						
<ul> <li>Water drainage from the workshop must be contained and</li> </ul>						
managed in accordance Section 5.7: storm and waste water						
management.						

## 5.19 Batching plants

Impact management outcome: Minimise spillages and contamination of soil, surface water and groundwater.

Impact Management Actions	Implementation			Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
- Concrete mixing must be carried out on an impermeable						
surface;						
- Batching plants areas must be fitted with a containment						
facility for the collection of cement laden water.						
- Dirty water from the batching plant must be contained to						
prevent soil and groundwater contamination						
- Bagged cement must be stored in an appropriate facility						
and at least 10 m away from any water courses, gullies and						
drains;						
- A washout facility must be provided for washing of concrete						
associated equipment. Water used for washing must be						
restricted;						
- Hardened concrete from the washout facility or concrete						
mixer can either be reused or disposed of at an appropriate						
licenced disposal facility;						
- Empty cement bags must be secured with adequate						
binding material if these will be temporarily stored on site;						
- Sand and aggregates containing cement must be kept						
damp to prevent the generation of dust (Refer to Section						
5.20: Dust emissions)						

<ul> <li>Any excess sand, stone and cement must be removed or</li> </ul>		
reused from site on completion of construction period and		
disposed at a registered disposal facility;		
<ul> <li>Temporary fencing must be erected around batching plants</li> </ul>		
in accordance with Section 5.5: Fencing and gate		
installation.		

5.20 Dust emissions

Impact management outcome: Dust prevention measures are applied to minimise the generation of dust.

Impact Management Actions	Implementation			Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
- Take all reasonable measures to minimise the generation of						
dust as a result of project development activities to the satisfaction of the ECO;						
<ul> <li>Removal of vegetation must be avoided until such time as</li> </ul>						
soil stripping is required and similarly exposed surfaces must						
be re- vegetated or stabilised as soon as is practically possible;						
<ul> <li>Excavation, handling and transport of erodible materials</li> </ul>						
must be avoided under high wind conditions or when a						
visible dust plume is present;						
- During high wind conditions, the ECO must evaluate the						
situation and make recommendations as to whether dust-						
damping measures are adequate, or whether working will						
cease altogether until the wind speed drops to an						

	acceptable level;					
_	Where possible, soil stockpiles must be located in sheltered					
	areas where they are not exposed to the erosive effects of					
	the wind;					
_	Where erosion of stockpiles becomes a problem, erosion					
	control measures must be implemented at the discretion of					
	the ECO;					
_	Vehicle speeds must not exceed 40 km/h along dust roads					
	or 20 km/h when traversing unconsolidated and non-					
	vegetated areas;					
-	Straw stabilisation must be applied at a rate of one bale/10					
	m² and harrowed into the top 100 mm of top material, for all					
	completed earthworks;					
_	For significant areas of excavation or exposed ground, dust					
	suppression measures must be used to minimise the spread					
	of dust.					
		•	•	•	•	•

### 5.21 Blasting

Impact management outcome: Impact to the environment is minimised through a safe blasting practice.

Impact Management Actions	Implementation			Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
- Any blasting activity must be conducted by a suitably						
licensed blasting contractor; and						
- Notification of surrounding landowners, emergency services						
site personnel of blasting activity 24 hours prior to such						

|--|

### 5.22 Noise

Impact Management outcome: Unnecessary noise is prevented by ensuring that noise from construction activities is mitigated.

				-		
Impact Management Actions	Implementati	on		Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	nespensiole	implementation	implementation	nespensiole	riequoney	
	person	Implementation	implementation	person		compliance
- The Contractor must keep noise level within acceptable						
limits, Restrict the use of sound amplification equipment for						
communication and emergency only;						
- All vehicles and machinery must be fitted with appropriate						
silencing technology and must be properly maintained;						
- Any complaints received by the Contractor regarding noise						
must be recorded and communicated. Where possible or						
applicable, provide transport to and from the site on a daily						
basis for construction workers;						
– Develop a Code of Conduct for the construction phase in terms of						
behaviour of construction staff. Operating hours as determined						
by the environmental authorisation are adhered to during						
the development phase. Where not defined, it must be						
ensured that development activities must still meet the						
impact management outcome related to noise						
management.						

## 5.23 Fire prevention

Impact management outcome: Prevention of uncontrollable fires.

Impact Management Actions	Implementati	on		Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
<ul> <li>Designate smoking areas where the fire hazard could be regarded as insignificant;</li> <li>Firefighting equipment must be available on all vehicles located on site;</li> <li>The local Fire Protection Agency (FPA) must be informed of construction activities;</li> <li>Contact numbers for the FPA and emergency services must be communicated in environmental awareness training and displayed at a central location on site;</li> <li>Two way swop of contact details between ECO and FPA.</li> </ul>						

## 5.24 Stockpiling and stockpile areas

Impact management outcome: Erosion and sedimentation as a result of stockpiling are reduced.

Impact Management Actions	Implementati	Implementation			Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of	
	person	implementation	implementation	person		compliance	
– All material that is excavated during the projec							
development phase (either during piling (if required) o							
earthworks) must be stored appropriately on site in order to							
minimise impacts to watercourses, watercourses and water							
bodies;							
<ul> <li>All stockpiled material must be maintained and kept clear or</li> </ul>							
weeds and alien vegetation growth by undertaking regula							
weeding and control methods;							
<ul> <li>Topsoil stockpiles must not exceed 2 m in height;</li> </ul>							
<ul> <li>During periods of strong winds and heavy rain, the stockpiles</li> </ul>							
must be covered with appropriate material (e.g. cloth							
tarpaulin etc.);							
- Where possible, sandbags (or similar) must be placed at the							
bases of the stockpiled material in order to prevent erosion							
of the material.							
5.25 Finalising tower positions							

Impact management outcome: No environmental degradation occurs as a result of the survey and pegging operations.

Impact Management Actions	Implementation A			Monitoring				
	Responsible	Method	of	Timeframe	for	Responsible	Frequency	Evidence of

		person	implementation	implementation	person		compliance		
-	No vegetation clearing must occur during survey and								
	pegging operations;								
-	No new access roads must be developed to facilitate								
	access for survey and pegging purposes;								
_	Project manager, botanical specialist and contractor to								
	agree on final tower positions based on survey within								
	assessed and approved areas;								
_	The surveyor is to demarcate (peg) access roads/tracks in								
	consultation with ECO. No deviations will be allowed without								
	the prior written consent from the ECO.								
5.26	Excavation and Installation of foundations					•	1		
p	Impact management outcome: No environmental degradation occurs as a result of excavation or installation of foundations.								
Imp	act Management Actions	Implementati	on		Monitoring				
Imp	act Management Actions	Implementati	on		Monitoring				
Imp	act Management Actions	Implementati	on		Monitoring				
Imp	act Management Actions	Implementati Responsible	<b>on</b> Method of	Timeframe for	<b>Monitoring</b> Responsible	Frequency	Evidence of		
Imp	act Management Actions	Implementati Responsible person	<b>on</b> Method of implementation	Timeframe for implementation	MonitoringResponsibleperson	Frequency	Evidence of compliance		
Imp	act Management Actions All excess spoil generated during foundation excavation	Implementati Responsible person	<b>on</b> Method of implementation	Timeframe for implementation	Monitoring         Responsible         person	Frequency	Evidence of compliance		
Imp _	All excess spoil generated during foundation excavation must be disposed of in an appropriate manner and at a	Implementati Responsible person	on Method of implementation	Timeframe for implementation	Monitoring         Responsible         person	Frequency	Evidence of compliance		
Imp –	All excess spoil generated during foundation excavation must be disposed of in an appropriate manner and at a recognised disposal site, if not used for backfilling purposes;	Implementati Responsible person	<b>on</b> Method of implementation	Timeframe for implementation	Monitoring         Responsible         person	Frequency	Evidence of compliance		
- -	All excess spoil generated during foundation excavation must be disposed of in an appropriate manner and at a recognised disposal site, if not used for backfilling purposes; Spoil can however be used for landscaping purposes and must be covered with a layer of 150 mm tensoil for	Implementati Responsible person	on Method of implementation	Timeframe for implementation	Monitoring         Responsible         person	Frequency	Evidence of compliance		
-	All excess spoil generated during foundation excavation must be disposed of in an appropriate manner and at a recognised disposal site, if not used for backfilling purposes; Spoil can however be used for landscaping purposes and must be covered with a layer of 150 mm topsoil for rehabilitation purposes:	Implementati         Responsible         person	on Method of implementation	Timeframe for implementation	Monitoring         Responsible         person	Frequency	Evidence of compliance		
- _	All excess spoil generated during foundation excavation must be disposed of in an appropriate manner and at a recognised disposal site, if not used for backfilling purposes; Spoil can however be used for landscaping purposes and must be covered with a layer of 150 mm topsoil for rehabilitation purposes; Management of equipment for excavation purposes must	Implementati Responsible person	on Method of implementation	Timeframe for implementation	Monitoring         Responsible         person	Frequency	Evidence of compliance		
-	All excess spoil generated during foundation excavation must be disposed of in an appropriate manner and at a recognised disposal site, if not used for backfilling purposes; Spoil can however be used for landscaping purposes and must be covered with a layer of 150 mm topsoil for rehabilitation purposes; Management of equipment for excavation purposes must be undertaken in accordance with <b>Section 5.18: Workshop</b>	Implementati Responsible person	on Method of implementation	Timeframe for implementation	Monitoring         Responsible         person	Frequency	Evidence of compliance		
- -	All excess spoil generated during foundation excavation must be disposed of in an appropriate manner and at a recognised disposal site, if not used for backfilling purposes; Spoil can however be used for landscaping purposes and must be covered with a layer of 150 mm topsoil for rehabilitation purposes; Management of equipment for excavation purposes must be undertaken in accordance with Section 5.18: Workshop equipment maintenance and storage; and	Implementati Responsible person	on Method of implementation	Timeframe for implementation	Monitoring         Responsible         person	Frequency	Evidence of compliance		

	managed in accordance with Section 5.17: Hazardous			
	substances.			
_	Batching of cement to be undertaken in accordance with			
	Section 5.19 : Batching plants;			
_	Residual cement must be disposed of in accordance with			
	Section 5.8: Solid and hazardous waste management.			

# 5.27 Assembly and erecting towers

Impact management outcome: No environmental degradation occurs as a result of assembly and erecting of towers.

Impact Management Actions	Implementati	on	Monitoring			
					1	
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
- Prior to erection, assembled towers and tower sections must						
be stored on elevated surface (suggest wooden blocks) to						
minimise damage to the underlying vegetation;						
<ul> <li>In sensitive areas, tower assembly must take place off-site or</li> </ul>						
away from sensitive positions;						
- The crane used for tower assembly must be operated in a						
manner which minimises impact to the environment;						
<ul> <li>The number of crane trips to each site must be minimised;</li> </ul>						
- Wheeled cranes must be utilised in preference to tracked						
cranes;						
- Consideration must be given to erecting towers by						
helicopter or by hand where it is warranted to limit the extent						

	of environmental impact:			
_	Access to tower positions to be undertaken in accordance			
	with access requirements in specified in Section 8.4: Access			
	Roads;			
_	Vegetation clearance to be undertaken in accordance			
	with general vegetation clearance requirements specified			
	in Section 8.10: Vegetation clearing;			
_	No levelling at tower sites must be permitted unless			
	approved by the Development Project Manager or			
	Developer Site Supervisor;			
_	Topsoil must be removed separately from subsoil material			
	and stored for later use during rehabilitation of such tower			
	sites;			
_	Topsoil must be stored in heaps not higher than 1m to			
	prevent destruction of the seed bank within the topsoil;			
_	Excavated slopes must be no greater that 1:3, but where this			
	is unavoidable, appropriate measures must be undertaken			
	to stabilise the slopes;			
_	Fly rock from blasting activity must be minimised and any			
	pieces greater than 150 mm falling beyond the Working			
	Area, must be collected and removed;			
_	Only existing disturbed areas are utilised as spoil areas;			
_	Drainage is provided to control groundwater exit gradient			
	with the spill areas such that migration of fines is kept to a			
	minimum;			
_	Surface water runoff is appropriately channeled through or			
	around spoil areas;			
_	During backfilling operations, care must be taken not to			
	dump the topsoil at the bottom of the foundation and then			
	put spoil on top of that;			
_	The surface of the spoil is appropriately rehabilitated in			

	accordance with the requirements specified in Section			
	5.29: Landscaping and rehabilitation;			
_	The retained topsoil must be spread evenly over areas to be			
	rehabilitated and suitably compacted to effect re-			
	vegetation of such areas to prevent erosion as soon as			
	construction activities on the site is complete. Spreading of			
	topsoil must not be undertaken at the beginning of the dry			
	season.			

# 5.28 Stringing

Impact management outcome: No environmental degradation occurs as a result of stringing.

Impact Management Actions	Implementati	on	Monitoring				
	Perpensible Method of Timeframe for I						
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of	
	person	implementation	implementation	person		compliance	
<ul> <li>Where possible, previously disturbed areas must be used for the siting of winch and tensioner stations. In all other instances, the siting of the winch and tensioner must avoid Access restricted areas and other sensitive areas;</li> <li>The winch and tensioner station must be equipped with drip trays in order to contain any fuel, hydraulic fuel or oil spills and leaks;</li> <li>Refueling of the winch and tensioner stations must be undertaken in accordance with Section 5.17: Hazardous substances;</li> </ul>							

_	In the case of the development of overhead transmission			
	and distribution infrastructure, a one metre "trace-line" may			
	be cut through the vegetation for stringing purposes only			
	and no vehicle access must be cleared along "trace-lines".			
	Vegetation clearing must be undertaken by hand, using			
	chainsaws and hand held implements, with vegetation			
	being cut off at ground level. No tracked or wheeled			
	mechanised equipment must be used;			
_	Alternative methods of stringing which limit impact to the			
	environment must always be considered e.g. by hand or by			
	using a helicopter;			
_	Where the stringing operation crosses a public or private			
	road or railway line, the necessary scaffolding/ protection			
	measures must be installed to facilitate access. If, for any			
	reason, such access has to be closed for any period(s)			
	during development, the persons affected must be given			
	reasonable notice, in writing;			
-	No services (electrical distribution lines, telephone lines,			
	roads, railways lines, pipelines fences etc.) must be			
	damaged because of stringing operations. Where disruption			
	to services is unavoidable, persons affected must be given			
	reasonable notice, in writing;			
-	Where stringing operations cross cultivated land, damage to			
	crops is restricted to the minimum required to conduct			
	stringing operations, and reasonable notice (10 work days			
	minimum), in writing, must be provided to the landowner;			
-	Necessary scaffolding protection measures must be installed			
	to prevent damage to the structures supporting certain high			
	value agricultural areas such as vineyards, orchards,			
	nurseries.			1

## 5.29 Socio-economic

Impact management outcome: Socio-economic development is enhanced.

	Income a second and			Monitoring			
Impact management Actions				Moniforing			
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance	
<ul> <li>Develop and implement communication strategies to facilitate public participation;</li> <li>Develop and implement a collaborative and constructive approach to conflict resolution as part of the external stakeholder engagement process;</li> <li>Sustain continuous communication and liaison with neighboring owners and residents</li> <li>Create work and training opportunities for local stakeholders; and</li> <li>Where feasible, no workers, with the exception of security personnel, must be permitted to stay over-night on the site. This would reduce the risk to local farmers.</li> </ul>							

5.30 Temporary closure of site

Impact management outcome: Minimise the risk of environmental impact during periods of site closure greater than five days.

Impact Management Actions	Implementation	Monitoring

		Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
		person	implementation	implementation	person		compliance
_	Bunds must be emptied (where applicable) and need to be						
	undertaken in accordance with the impact management						
	actions included in sections 5.17: management of hazardous						
	substances and 5.18 workshop, equipment maintenance						
	and storage;						
-	Hazardous storage areas must be well ventilated;						
-	Fire extinguishers must be serviced and accessible. Service						
	records to be filed and audited at last service;						
_	Emergency and contact details displayed must be						
	displayed;						
_	Security personnel must be briefed and have the facilities to						
	contact or be contacted by relevant management and						
	emergency personnel;						
-	Night hazards such as reflectors, lighting, traffic signage etc.						
	must have been checked;						
-	Fire hazards identified and the local authority must have						
	been notified of any potential threats e.g. large brush						
	stockpiles, fuels etc.;						
-	Structures vulnerable to high winds must be secured;						
-	Wind and dust mitigation must be implemented;						
-	Cement and materials stores must have been secured;						
-	Toilets must have been emptied and secured;						
-	Refuse bins must have been emptied and secured;						
_	Drip trays must have been emptied and secured.						

# 5.31 Landscaping and rehabilitation

Impact management outcome: Areas disturbed during the develo	<b>npact management outcome:</b> Areas disturbed during the development phase are returned to a state that approximates the original condition.							
Impact Management Actions	Implementati	on		Moniforing				
	Responsible	Method of	limetrame for	Responsible	Frequency	Evidence of		
	person	Implementation	Implementation	person		compliance		
- All dreds disturbed by construction activities must be subject								
be dispessed to a registered waste site and certificates of								
disposed for a registered waste site and certificates of								
<ul> <li>All slopes, must be assessed for contouring, and to contour</li> </ul>								
only when the need is identified in accordance with the								
Conservation of Agricultural Resources Act, No 43 of 1983								
<ul> <li>All slopes must be assessed for terracing, and to terrace only</li> </ul>								
when the need is identified in accordance with the								
Conservation of Agricultural Resources Act, No 43 of 1983;								
<ul> <li>Berms that have been created must have a slope of 1:4 and</li> </ul>								
be replanted with indigenous species and grasses that								
approximates the original condition;								
<ul> <li>Where new access roads have crossed cultivated farmlands,</li> </ul>								
that ianas must be renabilitated by ripping which must be								
Republication of tower sites and access roads outside of								
farmland:								
<ul> <li>Indigenous species must be used for with species</li> </ul>								
and/grasses to where it compliments or approximates the								
original condition;								
- Stockpiled topsoil must be used for rehabilitation (refer to								

	Section 5.24: Stockpiling and stockpiled areas);			
_	Stockpiled topsoil must be evenly spread so as to facilitate			
	seeding and minimise loss of soil due to erosion;			
_	Before placing topsoil, all visible weeds from the placement			
	area and from the topsoil must be removed;			
_	Subsoil must be ripped before topsoil is placed;			
_	The rehabilitation must be timed so that rehabilitation can			
	take place at the optimal time for vegetation establishment;			
_	Where impacted through construction related activity, all			
	sloped areas must be stabilised to ensure proper			
	rehabilitation is effected and erosion is controlled ;			
_	Sloped areas stabilised using design structures or vegetation			
	as specified in the design to prevent erosion of			
	embankments. The contract design specifications must be			
	adhered to and implemented strictly;			
-	Spoil can be used for backfilling or landscaping as long as it			
	is covered by a minimum of 150 mm of topsoil.			
_	Where required, re-vegetation including hydro-seeding can			
	be enhanced using a vegetation seed mixture as described			
	below. A mixture of seed can be used provided the mixture			
	is carefully selected to ensure the following:			
	a) Annual and perennial plants are chosen;			
	b) Pioneer species are included;			
	c) Species chosen must be indigenous to the area with the			
	seeds used coming from the area;			
	d) Root systems must have a binding effect on the soil;			
	e) The final product must not cause an ecological			
	imbalance in the area			

## 6 ACCESS TO THE GENERIC EMPr

Once completed and signed, to allow the public access to the generic EMPr, the holder of the EA must make the EMPr available to the public in accordance with the requirements of regulation 26(h) of the EIA Regulations.

### PART B: SECTION 2

### 7 SITE SPECIFIC INFORMATION AND DECLARATION

### 7.1 Sub-section 1: contact details and description of the project

7.1.1 Details of the applicant: Name of applicant: ENERTRAG South Africa (Pty)

Tel No: 021 207 2081

Fax No: -

Postal Address: Suite 104, Albion Springs, 183 Main Road, Rondebosch, Cape Town

Physical Address: Suite 104, Albion Springs, 183 Main Road, Rondebosch, Cape Town

7.1.2 Details and expertise of the EAP:

Name of EAP: Michelle Venter

Tel No: 011 794 7539

Fax No: 011 794 6946

E-mail address: info@cabangaenvironmental.co.za

Expertise of the EAP (Curriculum Vitae included): See attached CV

Michelle holds an Honours Degree in Geography from UNISA (2014), which she completed part-time following the successful completion of a BSc Degree in Environmental Management and Zoology (2010).

She has been employed as an Environmental Assessment Practitioner (EAP) at Cabanga Environmental since 2016 working predominantly with mining and development projects. Previously she has worked as an assistant auditor (ISO 14001), public participation officer as well as an Environmental Control Officer (ECO).

Michelle's key experience includes:

- Monitoring (dust, water and noise) and Compliance
- Environmental Performance Assessments
- Water Use License Auditing
- Environmental Impact Assessments
- Environmental Management Programmes
- Rehabilitation and Closure reports (including the assessment of Financial Provision)
- Water Use License Applications and Integrated Water and Waste Management Plans
- GIS Mapwork
- Public Participation and Stakeholder Engagement

Michelle is a Registered EAP (Registration Number 2019/457) with the Environmental Assessment Practitioner's Association of South Africa (EAPASA), the only Registration Authority for EAPs in South Africa in terms of Section 24H of the National Environmental Management Act, 1998 (Act No. 107 of 1998) (NEMA).

Michelle is also a Certificated Natural Scientist with the South African Council for Natural Scientific Professions (SACNASP) (Environmental Science) (Cert. Sci. Nat. 114447), the legislated regulatory body for natural science practitioners in South Africa in terms of the Natural Scientific Professions Act of 2003.

### 7.1.3 Project name: Hendrina North Grid Infrastructure

7.1.4 Description of the project:

The Project entails the development of electricity transmission and distribution infrastructure required to connect the proposed Hendrina North Wind Energy Facility (WEF) to the National Grid via the existing

Eskom substation, located at the Komati Power Station. The Project is dependent on the Hendrina North WEF Project, and will only be constructed if the Hendrina North WEF is developed.

The Applicant intends to develop the Project under a self-build agreement with Eskom. Once construction is complete it is anticipated that the Grid Infrastructure, and associated Environmental Authorisation, will be transferred to the Grid Operator (Eskom). Eskom will be the ultimate owner of the Grid Infrastructure and will be responsible for the operation, maintenance and decommissioning (if applicable) thereof.

The Project comprises the following key components:

- 1 x substation/switching station;
- 1 x up to 275kV1 overhead powerline either single or double circuit;
- Associated Infrastructure, including but not limited to:
  - Service/access tracks where required (approximately 4-5m wide)
  - Fencing

Two alternative substation locations are being investigated and a number of route alternatives are being considered for the associated powerline, including a Loop-in-Loop-Out (LILO) connection onto the existing Eskom transmission lines (275-400kV). The proposed powerline to the existing Komati substation will be approximately 15 to 16km long depending on the exact route. A 500m corridor along each of the proposed options (250m from the centre-lines) has been assessed to allow for some flexibility in the micro siting of the pylons. These route alternatives are largely aligned to existing powerline servitudes, and existing access roads and maintenance tracks will be utilised as far as possible so as to minimise the environmental impacts associated with the Project. The Project will make use of the Hendrina North WEF Project laydown areas and construction camps (subject to a separate application for EA).

# **Project Components**

Two different grid solutions are being investigated:

## • Grid solution one (new substation and powerline):

Each of the two substation site alternatives comprise 3 Hectares (Ha).

The proposed powerline to the Komati substation will be approximately 15 to 16km long depending on the exact route options. If this solution is implemented, the preferred pylon and powerline will be 132 kV Intermediate Self-Supporting Double Circuit Monopole.

# • Grid solution two (new substation and Loop-in-Loop-Out):

Conduct a LILO connection onto the existing Eskom transmission lines (275-400kV) and construct a new substation (3 Ha) at this connection point. This will include a short powerline (275kV) of up to 250m connecting the new substation to the existing transmission line. The LILO solution feasibility depends on Eskom permissions.

No:	Farm Name	Farm No	Portion No	Latitude	Longitude					
1	Broodsnyersplaats	25 IS	7	26° 5'49.82''S	29°29'3.71"E					
2	Broodsnyersplaats	25 IS	11	26° 5'45.67''S	29°28'52.91"E					
3	Bultfontein	187 IS	2	26° 7'4.24''S	29°28'50.30''E					
4	Bultfontein	187 IS	3	26° 8'13.92''S	29°30'4.87''E					
5	Bultfontein	187 IS	4	26° 7'28.11"S	29°29'19.27''E					
6	Bultfontein	187 IS	6	26° 8'26.92''S	29°30'17.03"E					
7	Bultfontein	187 IS	10	26° 8'29.28''S	29°30'13.78''E					
8	Bultfontein	187 IS	14	26° 8'35.29''S	29°30'20.94''E					
9	Dunbar	189 IS	1	26°11'21.56''S	29°33'24.13"E					
10	Dunbar	189 IS	4	26° 9'41.32"S	29°31'1.64"E					

7.1.5 Project location:

<sup>&</sup>lt;sup>1</sup> 275kV is applicable to the LILO option, all other powerline alternatives have a capacity of 132kV.

No:	Farm Name	Farm No	Portion No	Latitude	Longitude
11	Dunbar	189 IS	5	26°10'48.95''S	29°32'41.68''E
12	Dunbar	189 IS	6	26°11'17.66''S	29°33'9.65''E
13	Dunbar	189 IS	7	26°11'2.94''S	29°32'49.29''E
14	Geluk	26 IS	6	26° 6'17.01''S	29°29'8.93''E
15	Geluk	26 IS	7	26° 6'34.59''S	29°28'21.41"E
16	Geluk	26 IS	26	26° 6'49.11''S	29°28'30.32''E
17	Hartebeestkuil	185 IS	2	26° 9'23.38''S	29°32'56.68''E
18	Hartebeestkuil	185 IS	3	26° 9'25.14"S	29°34'29.76''E
19	Hartebeestkuil	185 IS	4	26° 9'21.59"S	29°34'23.84''E
20	Komati Power Station	56 IS	0	26° 5'36.55"S	29°28'31.28''E
21	Wilmansrust	47 IS	1	26° 9'24.62"S	29°30'39.22''E
22	Wilmansrust	47 IS	3	26° 9'25.04''S	29°30'39.43''E
23	Wilmansrust	47 IS	9	26° 8'56.26''S	26° 8'56.26''S

### 7.2 Sub-section 2: Development footprint site map

This sub-section must include a map of the site sensitivity overlaid with the preliminary infrastructure layout. The sensitivity map must be prepared from the national web based environmental screening tool, when available for compulsory use at: <a href="https://screening.environment.gov.za/screeningtool">https://screening.environment.gov.za/screeningtool</a>. The sensitivity map shall identify the nature of each sensitive feature e.g. threatened plant species, archaeological site, etc. Sensitivity maps shall identify features both within the planned working area and any known sensitive features within 50 m from the development footprint.

Figure 1 depicts the overall site sensitivity as received by the specialists with the preferred alternative overlaid. Figure 2-Figure 9 depict plans that have been extracted from the Screening Tool Report.



Figure 1 Overall site sensitivity for the preferred option



Figure 2: Agriculture Theme sensitivity



Figure 3: Animal species theme sensitivity



Figure 4: Aquatic Biodiversity Theme sensitivity



Figure 5: Archaeological and Cultural Heritage Theme sensitivity



Figure 6: Civil aviation theme sensitivity



Figure 7: Defence theme sensitivity



Figure 8: Paleontology Theme sensitivity



Figure 9: Plant species theme sensitivity

#### 7.3 Sub-section 3: Declaration

The proponent/applicant or holder of the EA affirms that he/she will abide and comply with the prescribed impact management outcomes and impact management actions as stipulated in part B: section 1 of the generic EMPr and have the understanding that the impact management outcomes and impact management actions are legally binding. The proponent/applicant or holder of the EA affirms that he/she will provide written notice to the CA 14 day prior to the date on which the activity will commence of commencement of construction to facilitate compliance inspections.

Signature Proponent/applicant/ holder of EA

Date:

Note: will be signed in the EIA Phase

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#### 7.4 Sub-section 4: amendments to site specific information (Part B; section 2)

Should the EA be transferred to a new holder, <u>Part B: Section 2</u> must be completed by the new holder and submitted with the application for an amendment of the EA in terms of Regulations 29 or 31 of the EIA Regulations, whichever applies. The information submitted for an amendment to an environmental authorisation will be considered to be incomplete should a signed copy of <u>Part B: Section 2</u> not be submitted. Once approved, <u>Part B: Section 2</u> forms part of the EMPr for the development and the EMPr becomes legally binding to the new EA holder.

#### 8 SITE SPECIFIC ENVIRONMENTAL ATTRIBUTES

If any specific environmental sensitivities/attributes are present on the site which require more specific impact management outcomes and actions, not included in the pre-approved generic EMPr template, to manage impacts, those impact management outcomes and impact management actions must be included in this section. These specific management controls must be referenced spatially, and must include impact management outcomes and impact management actions. The management controls including impact management outcomes and impact management actions must be presented in the format of the preapproved generic EMPr template. This applies only to additional impact management outcomes and impact management actions that are necessary.

If Part C is applicable to the development as authorised in the EA, it is required to be submitted to the CA together with the BAR or EIAR, for consideration of, and decision on, the application for EA. The information in this section must be prepared by an EAP and the name and expertise of the EAP, including the curriculum vitae are to be included. Once approved, Part C forms part of the EMPr for the site and is legally binding. This section will not be required should the site contain no specific environmental sensitivities or attributes.

Aspect: Land Use, Soils and Agricultural Potential								
	Implementation Mc							
Impact Management Actions	Responsible person	Method of implementation	Time frame for implementation	Responsible person	Frequency	Evidence of compliance		
Impact Management outcome: To minimise the potential	of soil degradati	on and topsoil loss from spills and/or leaks and erosion s	o that soils can have the so	ame capacity as prior to	the activity.			
If an activity will mechanically disturb the soil below surface in any way, then any available topsoil should first be stripped from the entire surface to be disturbed to 30cm depth and stockpiled for respreading during rehabilitation. Topsoil stockpiles should not exceed a height of 2m. All stockpiles must be positioned away from drainage lines. Sediment fencing should be erected downslope of all stockpiles to intercept any sediment runoff from the stockpiles. Sediment fencing should be erected upslope of topsoil stockpiles to prevent ups lope runoff from eroding the topsoil stockpiles. During rehabilitation, the stockpiled topsoil must be evenly spread over the entire disturbed surface to the original depth of 30cm.	Contractor	Record GPS positions of all occurrences of below- surface soil disturbance (e.g. excavations). Record the date of topsoil stripping and replacement. Check that topsoil covers the entire disturbed area.	Construction	Contractor Environmental Officer (cEO)	As required, whenever areas are disturbed.	Spot checks of GPS positions		
Upstream berms to be placed to aid in topsoil management.	Contractor	Placement of upstream berms	Construction	cEO	Weekly and after heavy rains	Site inspection checklist		

Aspect: Freshwater Ecology								
		Implementation			pring			
Impact Management Actions	Responsible person	Method of implementation	Time frame for implementation	Responsible person	Frequency	Evidence of compliance		
Impact Management ou	tcome: Protection	of fresh water ecology and that there a	are functional wetlands p	ost operation,				
On-site staff to be provided training as to the no-go and sensitive areas.	cEO	Demarcate areas to be cleared before commencement of any wetland clearance. Maintain demarcations throughout construction. Photographs and reports.	Construction	cEO	Weekly photographic record, monthly environmental reports to Project Proponent and DFFE during construction.	Photographs and report. Training toolbox talks. Register of attendance.		
Environmental Compliance Officer (ECO) to be present during vegetation clearing to prevent unnecessary clearing of extensive areas not part of the direct footprint area.	cECO	Demarcate areas to be cleared before commencement of any wetland clearance. Maintain demarcations throughout construction. Photographs and reports.	Construction	cECO	Weekly photographic record, monthly environmental reports to Project Proponent and DFFE during construction.	Photographs and report.		
All areas of increased ecological sensitivity should be designated as "No-Go" areas and be off-limits to all unauthorised vehicles and personnel	cEO Contractor	Included in environmental awareness training Fencing or signage	Construction	cEO Contractor	Weekly photographic record, monthly environmental reports to Project Proponent and DFFE during construction.	Photographs and report.		

		Aspect: Freshwater Ecology					
		Implementation			Monitoring		
Impact Management Actions	Responsible person	Method of implementation	Time frame for implementation	Responsible person	Frequency	Evidence of compliance	
Wetland monitoring must be carried out after the decommissioning phase to ensure the success of wetland rehabilitation.	Independent Wetland Specialist	Photographs and reports.	Decommissioning	cEO	Weekly photographic record, monthly environmental reports to Project Proponent and DFFE.	Photographs and report. Training toolbox talks. Register of attendance.	

		Implementation			Monito	itoring	
Impact Management Actions	Responsible person	Method of implementation	Time frame for implementation	Responsible person	Frequency	Evidence of compliance	
Impact Management outcome: Protection	of fauna, flora c	and SCC (both fauna and flora) so th	nat they are not ne	gatively impacted.			
Fences to demarcate activity areas, prevent activities in no-go areas.	cEO Contractor	Include in environmental awareness training Fencing or signage	Construction	cEO Contractor	Continuously	Checklist and Intact fences/signage Availability of a layout and sensitivity map indicating avoidance of sensitive areas. Training records.	
Undertake a detailed walk-through survey of footprint areas that are within habitats where SCC are likely to occur.	Contractor appointing Botanist	Demarcate areas of SCC habitats	Pre- Construction	cEO	Early to late Summer, but dependent on recent rainfall and vegetation growth.	Botanist walk down survey report.	
Sensitize staff to presence of SCC and the importance of their protection.	cEO	Training and site walk through	Pre- Construction	cEO	Throughout construction	Training material and attendance register of training	
Avoid dolomite areas for powerline routes.	Contractor	Geological map	Pre- Construction	Site contractor	Construction	Site plan overlaid on geological map	
Compile and implement a Plant Search Rescue and Relocation Plan	Contractor appointing Botanist	Plan to include: Rescued Plants: • The location of all transplanted rescued plants must be recorded, along with the identity of the plant. • The health / vigour of each transplanted individual should be monitored annually for a minimum of three years. • As a scientific control, an equal number of non-transplanted individuals of the same species, within similar habitats, should be monitored in the same way as the transplanted specimens. This will provide comparative data on the survival of wild populations relative to transplanted plants.	Construction	Botanist/ cEO	Annual monitoring for a period of three years Where populations of threatened plant species are found to occur on site, annual monitoring of population health should take place. This should be appropriate to the species concerned.	Photographs and monitoring reports.	
		Implementation			Monito	pring	
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Impact Management Actions	Responsible person	»sponsible Method of implementation Tim person		Responsible person	Frequency	Evidence of compliance	
Compile and implement a Rehabilitation Plan.	Contractor & O&M Contractor appointing Botanist	<ul> <li>All rehabilitated areas should be monitored to assess vegetation recovery. For each monitoring site, an equivalent comparative site in adjacent undisturbed vegetation should be similarly monitored. Monitoring data collection should include the following: o total vegetation cover and height, as well as for each major growth form; o species composition, including relative dominance; o soil stability and/or</li> <li>development of erosion features; o representative photographs should be taken at each monitoring period.</li> </ul>	Construction Operation	cEO	Annual monitoring for a period of three years	Photographs and monitoring reports.	

		Implementation			Monit	toring	
Impact Management Actions	Responsible person	Method of implementation	Time frame for implementation	Responsible person	Frequency	Evidence of compliance	
	Impact Manag	ement outcome: Protection of heritage	e resource.				
The study area should be subjected to a final heritage walkthrough prior to development to identify and mitigate potential impacts to heritage resources.	Applicant to appoint qualified archaeologist	Ensure compliance with relevant legislation and recommendations from SAHRA under Section 35, 36 and 38 of NHRA	Pre- Construction	Applicant to appoint qualified archaeologist	Once off prior to construction	Final heritage walkthrough statement.	
Avoid ruins at 089, 090, 091 and 092 during pre- construction and construction.	Contractor	Ensure compliance with relevant legislation and recommendations from SAHRA under Section 35, 36 and 38 of NHRA	Construction	cECO	Weekly inspections during the pre- construction and construction phase.	Site inspection report	
Avoid graves at 093; 094 and 98 (with a 50 m buffer) during pre-construction and construction.	Contractor	Ensure compliance with relevant legislation and recommendations from SAHRA under Section 35, 36 and 38 of NHRA	Construction	cECO	Weekly inspections during the pre- construction and construction phase.	Site inspection report	
Avoidance of the graves at 095 and 096 and manage these <i>in-situ</i> with a 30 m buffer if this is not possible the graves can be relocated adhering to all legal requirements.	Contractor	Ensure compliance with relevant legislation and recommendations from SAHRA under Section 35, 36 and 38 of NHRA	Construction	cECO	Weekly inspections during the pre- construction and construction phase.	Site inspection report	

		Aspect: Heritage				
		Implementation	Monite			
Impact Management Actions	Responsible person	Method of implementation	Time frame for implementation	Responsible person	Frequency	
Implement the chance-find procedure during construction.	Contractor responsible for implementing Chance Find Procedure.	Ensure compliance with relevant legislation and recommendations from SAHRA under Section 35, 36 and 38 of NHRA Training in the Chance Find Procedure.	Construction	cECO and cEO	Weekly inspections during the construction phase.	

		Aspect: Heritage				
		Implementation			Moni	toring
Impact Management Actions	Responsible person	Method of implementation	Time frame for implementation	Responsible person	Frequency	Evidence of compliance
Implement the chance-find procedure during construction.	Contractor responsible for implementing Chance Find Procedure.	Ensure compliance with relevant legislation and recommendations from SAHRA under Section 35, 36 and 38 of NHRA Training in the Chance Find Procedure.	Construction	cECO and cEO	Weekly inspections during the construction phase.	Site inspection report.
		Aspect: Water Resources				
Impact Management Actions		Implementation			Moni	foring
Impact Management Actions	Responsible person	Method of implementation	lime trame for implementation	Responsible person	Frequency	Evidence of compliance
	Impact Manc	gement outcome: Protection of water	resources.		T	
Fences to demarcate activity areas, prevent activities in no-go areas.	cEO Contractor	Undertake awareness training on no-go areas. Fencing or signage	Construction	cEO Contractor	Continuously	Checklist and Intact fences/signage Availability of a layout and sensitivity map indicating avoidance of sensitive areas. Training records.
Small temporary diversion berms to be constructed upstream of all construction sites to prevent runoff from draining through these sites and becoming contaminated (such to be undertaken in consideration of any drainage lines or proximity to water courses).	Contractor	Placement of upstream berms	Construction	Environmental Officer	Weekly and after heavy rains	Site inspection checklist
Diesel storage to be above ground in accordance with SANS 10131.	Contractor & O&M Contractor	Construction of diesel storage in accordance with SANS 10131 Inspections to ensure diesel storage has no leaks, bund tap is closed.	Construction Operation Decommissioning	CEO O&M CEO	Weekly and after heavy rains	Site inspection checklist
Once construction is complete, areas where vegetation was cleared, and soil was stripped must be stabilised by shaping and re-vegetating to prevent erosion.	Contractor	Inspections and photographs of erosion prevention measures.	Construction	cEO	Monthly and after heavy rains	Site inspection checklist Implementation of rehabilitation plan.
Stockpiles should be monitored to ensure no runoff, erosion and sedimentation into the adjacent areas, especially the wetlands and freshwater systems.	Contractor	Inspections and photographs of erosion prevention measures and evidence of sedimentation.	Construction	cEO	Monthly and after heavy rains	Site inspection checklist
Erosion prevention measures such as grassing along surface areas where increased erosion could take place such as substations and transmission tower pylons.	O&M Contractor	Inspections and photographs of erosion prevention measures.	Operation	O&M cEO	Monthly and after heavy rains	Site inspection checklist
Areas where there are erosion prevention measures must be included in a maintenance schedule so that erosion is kept minimal.	O&M Contractor	Inspections and photographs of erosion prevention measures.	Operation	O&M cEO	Monthly and after heavy rains	Site inspection checklist
The maintenance and decommissioning of infrastructure must ensure that the quality of the groundwater that feeds sensitive receptors (groundwater abstractions and groundwater dependent terrestrial systems) downstream from any infrastructure does not significantly change and the development does not act as a preferential pathway.	Contractor & O&M Contractor	Compile a storm water management plan.	Construction Operation Decommissioning	cEO O&M cEO	Monthly and after heavy rains	Implementation of the storm water management plan.

Aspect: Visual								
		Implementation		-	Mor	hitoring		
Impact Management Actions	Responsibl	Method of	Time frame for	Responsible	Frequency	Evidence of compliance		
Impact Management outcome: Minimal et	e person	implementation		person				
Carefully plan to minimise the construction period and avoid construction delays	Inspection of planning schedule							
Inform receptors within 500M of the proposed power line of the construction programme and	-							
schedules.	_	This will include monitoring activities				Proof of communication.		
Minimise vegetation clearing and rehabilitate cleared areas as soon as possible.		associated with visual impacts such				Availability of a layout map indicating activity area being kept to a minimum. Implementation of rehabilitation plan.		
Vegetation clearing must take place in a phased manner.		construction camp,				Inspection of planning schedule and visual inspections.		
Position storage / stockpile areas in unobtrusive positions in the landscape, where possible.	Contractor	stockpiles, screening	Construction	cEO	On- going during	Visual inspections and availability of a layout map.		
Make use of existing gravel access roads where possible.		suppression Regular			CONSILICATION	Availability of a layout map.		
Ensure that dust suppression techniques are implemented: -on all access roads; -in all areas where vegetation clearing has taken place; -On all soil stockpiles.		reporting to an environmental management team				Dust suppression schedule visual inspections.		
Maintain a neat construction site by removing litter, rubble and waste materials regularly.		during the				Visual inspections. Safety disposal certificates of waste.		
Limit the number of vehicles and trucks travelling to and from the construction site, where possible.		consilocitori pridse.				Inspection of planning schedule.		
No vehicle maintenance must occur on site.	O&M Contractor	Service at manufacturer/owne r	Operation	Vehicle contractor	Annually or when the maximum kilometres are driven before a vehicle service is required	Service booklet stamped, dated and signed		
Maintenance must take place off site. Refueling to take place on an impervious surface or with the use of a drip tray to prevent spills.	O&M Contractor	Service at manufacturer Refueling to take place on an impervious surface or with the use of a drip tray to prevent spills.	Operation	Vehicle contractor	Annually or when the maximum kilometres are driven before a vehicle service is required. When the tank is empty	Service booklet stamped, dated and signed Fuel records.		
Ensure that dust suppression procedures are maintained on all gravel access roads throughout the decommissioning phase	Contractor	Ensure that procedures for the removal of structures and stockpiles during decommissioning are implemented, including recycling of materials. In addition, it must beensured that rehabilitation of the site to a visually acceptable standard is undertaken.	Decommissionin g	cEO	Ongoing during decommissioning	Visual inspections and check lists. Dust suppression schedule.		

Aspect: Socio-economic										
		Implementation Monito								
Impact Management Actions		Method of implementation	Time frame for implementation	Responsible person	Frequency	Evidence of compliance				
Impact Management outcome: Locals not being affected negat	ively by the Grid (	noise, air quality etc )and there	being positive impacts (jo	obs).						
Controlling dust and noise at source by ensuring equipment is well-maintained to prevent noise they would make if in disrepair	Contractor	Dust suppression Maintaining equipment	Construction	cEO Contractor	Weekly Annually	Dust suppressant schedule. Water usage for dust suppression. Service booklet stamped, dated and signed.				
Co-ordinate with the local municipality and relevant labour unions to inform the local labour force about the project that is planned to be established and the jobs that can potentially be applied for.	Contractor	Meetings with local municipality and labour unions.	Construction	Contractor	Pre construction Construction	Minutes of meetings and attendance register with local municipality and labour unions.				
Facilitate a broader skills development programme as part of socio-economic development commitments.	Contractor	Training	Construction	Contractor	Pre construction	Attendance register and training material				
Recruit local labour as far as feasible to increase the benefits to the local households. Employ labour intensive methods in construction where feasible. Sub-contract to local construction companies where possible.	Contractor	Develop a local labour policy.	Construction	Contractor	Ongoing during construction	Local labour policy will form part of the employment contract.				
Provide adequate signage along the access roads to warn motorists of the construction activities taking place on the site.	Contractor	Signage by the nearest access road(s).	Construction	СНЅО	During construction	Photographs of signage and proof of communication				

		Implementation			Monit	ioring	
Impact Management Actions	Responsible person	Method of implementation	Time frame for implementation	Responsible person	Frequency	Evidence of compliance	
Impact Management outcome: Hazardous chemicals and d	angerous goods	handled, stored and disposed of securely	to not impacts on site per	rsonnel's health nor imp	act on the environment.		
All site personnel must receive training on the dangers associated with hazardous chemical substances on site, including the proper handling and storage and disposal requirements for such substances.	cEO	Develop environmental awareness training which includes hazardous chemical handling, disposal and storage	Construction Decommissioning	cEO	Prior to being employed.	Environmental awareness training checklist. Proof of training material and attendance register.	
Scheduled servicing and maintenance of vehicles to be undertaken off-site.	Contractor	Service at manufacturer	Construction	Vehicle contractor	Annually or when the maximum kilometres are driven before a vehicle service is required	Service booklet stamped, dated and signed	
Measures must be in place, should there be dangerous and hazardous materials on site, so that they are to be stored and handled appropriately. Surfaces must be concrete lined and sloped so that hazardous substances can drain towards the collection sump from where it can be removed by a registered hazardous waste management company and be disposed of in accordance with the relevant national legislation.	O&M Contractor	Surfaces to be established before the hazardous materials and dangerous goods are used. Cleaning of collection sump as necessary throughout operational phase. Awareness training on hazardous material and dangerous good storage and handling.	Operation	O&M EO	Training: continuously	O&M EO to check surfaces, sump and storage areas during quarterly audits. Maintain safe disposal certificates in environmental file. Environmental awareness training checklist. Proof of training material and attendance register.	

	Aspect: Avifauna					
		Implementation			Monitoring	
Impact Management Actions	Responsible person	Method of implementation	Time frame for implementation	Responsible person	Frequency	Evidence of compliance
Impact Management outcome: Avifauna are	not negatively impacted by the					
The authorised alignment must be inspected by an avifaunal specialist by means of a "walk- through" inspection i.e. through a combination of satellite imagery supplemented with in situ inspections by vehicle and where necessary, on foot, once the pole positions have been finalised. The objective would be to demarcate the sections of the powerline that need to be fitted with Bird Flight Diverters.	Contractor appointing an avifaunal specialist	Walk-through by avifaunal specialist.	Pre- construction	Contractor	Once off	Report from avifaunal specialist
Conduct a pre-construction inspection to identify Red List species that may be breeding within the project footprint to ensure that the impacts to breeding species (if any) are adequately managed.	Contractor appointing an avifaunal specialist	Walk-through by avifaunal specialist to record any Red List species nests	Pre- construction	Contractor	Once off	Report from avifaunal specialist
Once the relevant spans have been identified flight diverters to be installed.	O&M Contractor	Bird Flight Diverters must be fitted according to the applicable Eskom Engineering Instruction (Eskom Unique Identifier 240 – 93563150: The utilisation of Bird Flight Diverters on Eskom Overhead Lines). They are to be installed for the full span length on the earth wire (according to Eskom guidelines – five metres apart). Light and dark colour devices must be alternated to provide contrast against both dark and light backgrounds respectively.	Operation	Contractor	Once- off	Flight diverter installation manual checklist.
Measures to control noise and dust should be applied according to current best practice in the industry.	Contractor	Access roads must be demarcated clearly. Undertake site inspections to verify.	Decommissioning	cEO	Once- off	Photographs and site inspection reports

Aspect: Air and No	Aspect: Air and Noise							
	Implementation				Moni	itoring		
Impact Management Actions	Responsible person	Method of implementation	Time frame for implementat ion	Responsible person	Frequency	Evidence of compliance		
Impact Management outcome: Minimal impact or	n air and noise fr	om the Grid project						
Make use of dust suppression techniques to minimise dust entrainment along unpaved roads and during periods of high wind speeds.	Contractor	Dust suppressant	Construction	cEO	Daily/ weekly	Dust suppressant schedule. Water usage for dust suppression.		
Ensure trucks transporting sand and other dust generating material are covered with tarpaulins.	Contractor	Checklist at security prior to truck being permitted entry	Construction	cEO	Weekly	Photographic evidence.		
If construction necessitates blasting, inform nearby residences and road users of planned blasting activities ahead of time.	Blasting specialist	Signage by the nearest road(s) warning of blasting. Whatsapp or email notification to inform nearby residents of blasting.	Construction	СНЅО	When blasting occurs	Photographs of signage and proof of communication		
Ensure regular vehicle maintenance is undertaken, as per supplier specification, to prevent the noise and emissions that can be generated by vehicles and machinery in disrepair.	Contractor	Service at manufacturer	Construction	Vehicle contractor	Annually or when the maximum kilometres are driven before a vehicle service is required	Service booklet stamped, dated and signed		

Aspect: Air and No						
		Implementation			itoring	
Impact Management Actions	Responsible person	Method of implementation	Time frame for implementat ion	Responsible person	Frequency	Evidence of compliance
Scheduling of noisy activities such as pile driving, rock breaking and excavation during the daytime period.	Contractor	Planning of day to day construction activities in a spreadsheet indicating activity, date and time.	Construction	Site manager	Continuously	Review of planning spreadsheet

### **APPENDIX 1: METHOD STATEMENTS**

To be prepared by the contractor prior to commencement of the activity. The method statements are **not required** to be submitted to the CA.



01 July 2022

# SITE SENSITIVITY VERIFICATION AND REPORT ACCORDING TO THE PROTOCOL FOR THE SPECIALIST ASSESSMENT AND MINIMUM REPORT CONTENT REQUIREMENTS FOR ENVIRONMENTAL IMPACTS ON CIVIL AVIATION INSTALLATIONS (Government Notice 320 of 20 March 2020)

### HENDRINA NORTH GRID INFRASTRUCTURE, MPUMALANGA

## 1 Introduction

ENERTRAG South Africa (Pty) Ltd (the Developer) proposes the development of the Hendrina Renewable Energy Complex, comprising the following Projects:

- Hendrina North Wind Energy Facility (up to 200MW) over 3600ha;
- Hendrina South Wind Energy Facility (up to 200MW) over 2900ha;
- Hendrina North Grid Infrastructure (up to 275kV) 15km; and
- Hendrina South Grid Infrastructure (up to 275kV) 16km.

The National Web-Based environmental screening tool identified that the proposed development site has a High Sensitivity in terms of the Civil Aviation Theme. The Screening Tool Report generated for this Project relates to the Application Category: Utilities Infrastructure – Electricity – Distribution and Transmission - Powerline (https://screening.environment.gov.za/screeningtool).

The Protocol for the specialist assessment and minimum report content requirements for environmental impacts on civil aviation installations (The Protocol) states that "prior to commencing with a specialist assessment, the current use of the land and the potential environmental sensitivity of the site under consideration as identified by the screening tool must be confirmed by undertaking a site sensitivity verification. The site sensitivity verification must be undertaken by an environmental assessment practitioner or specialist with expertise in radar."

This site sensitivity verification and Civil Aviation Compliance Statement was undertaken by the environmental assessment practitioner (EAP) identified in Table 1.

Author and EAP	Michelle Venter
Contact Details	011 795 7534
	<u>Michelle@cabangaenvironmental.co.za</u>
Highest qualification	BSc Hons Geography; BSc Environmental Management & Zoology
Years' experience	10+ years
Professional registration	Registered EAP: 2019/456 (EAPASA)
	SACNASP: Cert. Sci. Nat. 114447

### Table 1: Details of the EAP





## 2 Site Sensitivity Verification

- The high and medium sensitivity ratings identified in the screening tool report for the Civil Aviation Theme is due to the Project Site being within 8km (high sensitivity) and within 15km (medium sensitivity) of a civil aviation aerodrome.
- The aerodrome referred to is the aircraft landing strip associated with the Koornfontein Mines, west of the Komati Power Station. The other "aerodrome" indicated by the screening tool, south of Hendrina, does not contain any known aircraft landing strips or similar developments. No evidence of such facilities could be obtained through review of aerial photographs or during the site visits.
- Based on site visits undertaken by the EAP on various occasions, it would not appear as though the Koornfontein aerodrome is in use (see Figure 1).
- It is considered extremely unlikely that the development of the Project will affect aircraft in the area due to their anticipated height.
- The Civil Aviation Authority (CAA) and Air Traffic Navigational Services (ATNS) have been included in the public participation database for the proposed Project and will be consulted throughout this application process.





Figure 1: Condition of the airstrip at Koornfontein Mines

The following Sensitivity Ratings are defined in the Protocol:

VERY HIGH SENSITIVITY RATING - high likelihood for significant negative impacts on the civil aviation installation that cannot be mitigated. In-depth assessment of the potential impacts are likely to be required before development can be considered in these areas.

HIGH SENSITIVITY RATING – potential for negative impacts on the civil aviation installation that can potentially be mitigated. Further assessment may be required to investigate potential impacts and mitigation measures.

**MEDIUM SENSITIVITY RATING** - low potential for negative impacts on the civil aviation installation, and if there are impacts there is a high likelihood of mitigation. Further assessment of the potential impacts may not be required.

LOW SENSITIVITY RATING - No significant impacts on the civil aviation installation are expected in low sensitivity areas. It is unlikely for further assessment and mitigation measures to be required.



# 3 Civil Aviation Compliance Statement

No	Requirement as per the Protocol	EAP Response
2.1	The compliance statement must be prepared by an environmental assessment practitioner or a specialist with expertise in radar.	This Report was prepared by the EAP identified in Table 1.
2.2 2.2.1.	The compliance statement must: be applicable to the preferred site and the proposed development footprint	This Report relates to the Project and is based on numerous site visits undertaken by the EAP to the development footprint and surrounding areas.
2.2.2.	confirm the sensitivity rating for the site	See Section 2 – it is the opinion of the EAP that the site should have a maximum sensitivity rating of "Medium".
2.2.3.	indicate whether or not the proposed development will have an unacceptable impact on civil aviation installations	<ul> <li>It is considered highly unlikely that the proposed Project will have an unacceptable impact on civil aviation installations <ul> <li>the airstrip at Koornfontein Mines is in disuse.</li> <li>There are no other known airstrips in the vicinity of the site.</li> <li>The CAA and ATNS have been included in the public participation process followed in terms of the application.</li> </ul> </li> </ul>
2.3. 2.3.1	The compliance statement must contain, as a minimum, the following information: contact details of the environmental assessment practitioner or the specialist, their relevant qualifications and expertise in preparing the statement, and a curriculum vitae	See Table 1. The EAP's CV is included at the end of this document.
2.3.2	a signed statement of independence by the	Please see Section 5
2.3.3	a map showing the proposed development footprint (including supporting infrastructure) overlaid on the civil aviation sensitivity map generated by the screening tool	Please see Plan 1
2.3.4.	a comment, in writing, from the South African Civil Aviation Authority (SACAA), which may include inputs from the Obstacle Evaluation Committee (OEC), if appropriate, confirming no unacceptable impact on civil aviation installations	Please see Appendix B – correspondence from the SACAA confirmed that Air Traffic and Navigation Services (ATNS) has been appointed as the new Obstacle application Service Provider for Wind farms. ATNS is also included in the public participation database for this Project. The Developer must obtain approval from ATNS prior to construction.
2.3.5.	should the comment from the SACAA indicate the need for further assessment, a copy of the assessment report and mitigation measures is to be attached to the compliance statement and incorporated into the Basic Assessment Report or Environmental Impact Assessment Report with mitigation and monitoring measures identified included in the EMPr. The assessment must be in accordance with the requirements stipulated by the SACAA.	N/A The SACAA has not stipulated any additional requirements at this time. They and ATNS remain registered I&APs on the Projects database.
2.4.	A signed copy of the compliance statement must be appended to the Basic Assessment Report or Environmental Impact Assessment Report	This report is included as an Appendix to the EIA Report for the Project.



## 4 Sensitivity Map



Plan 1: Proposed development footprint overlaid on the civil aviation sensitivity map generated by the screening tool



## 5 Statement of Independence

I, <u>MICHELLE VENTER</u>, declare that –

- I act as the independent environmental assessment practitioner in this application;
- I have expertise in conducting environmental impact assessments, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I will take into account, to the extent possible, the matters listed in Regulation 13 of the Regulations when preparing the application and any report relating to the application;
- I undertake to disclose to the applicant and the Competent Authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the Competent Authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the Competent Authority, unless access to that information is protected by law, in which case it will be indicated that such information exists and will be provided to the Competent Authority;
- I will perform all obligations as expected from an environmental assessment practitioner in terms of the Regulations; and
- I am aware of what constitutes an offence in terms of Regulation 48 and that a person convicted of an offence in terms of Regulation 48(1) is liable to the penalties as contemplated in Section 49B of the Act.
- I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity proceeding other than remuneration for work performed in terms of the Regulations;



Mi Alle Valo

Signature of the Environmental Assessment Practitioner

Cabanga Concepts CC trading as Cabanga Environmental

Name of Company:

01 July 2022

Date



Appendix A: CV of the EAP



### CURRICULUM VITAE: MICHELLE VENTER

### **PROFESSIONAL PROFILE**

Key Experience includes:

- Environmental Auditing
- Water Use License Auditing
- Basic Assessments
- Scoping Reports
- Environmental Impact Assessments
- Environmental Management Programmes
- Rehabilitation and Closure reports
- Water Use License Applications and IWWMP
   compilation, IWWMP Annual Updates
- Monitoring (dust, water and noise) and Compliance
- GIS Mapwork
- Public Participation Process

### YEARS EXPERIENCE

10 years

### QUALIFICATIONS

**BSc Honours in Geography**, University of South Africa, 2014

**BSc Environmental Management & Zoology**, University of South Africa, 2010

### **PROFESSIONAL MEMBERSHIPS & AFFILIATIONS**

South African Council for Natural Scientific Professions (SACNASP): Certificated Natural Scientist-Reg. No. 114447

Registered EAP (EAPASA): 2019/456

Society of South African Geographers (SSAG): 27/19

#### **COURSES, WORKSHOPS & SEMINARS**

An Introduction on How to Map and Groundtruth Wetlands, Western Cape Wetlands Forum, 2020

Introductory EIA Report Writing, IAIASA, 2020

#### IWRM, NWA, and Water Use Authorisations: Focusing

on WULA's and IWWMP's, Carin Bosman Sustainble

Solutions, 2018

NWA: Workshop on Section 21(c) and (i) Water Use Activities, Department of Water Affairs and Sanitation, 2017

SANBI GIS Training, SANBI, 2017

### **EMPLOYEMENT HISTORY**

Cabanga Environmental: 2016- current

Position Held: Environmental Assessment Practitioner and Public Participation Officer

Phanda Risk Firm: 2014-2016 (2 years)

Last Position Held: Environmental Control Officer

CS Environmental Services: 2010-2014 (4 years)

Last Position Held: Junior Environmental Consultant

### **PROJECT EXPERIENCE: DEVELOPMENT**

Khusile Power Station: Ogies, Mpumalanga: Environmental awareness training material compilation during the construction of the power station.

Polokwane High Court: Polokwane, Limpopo: Internal environmental compliance and Environmental Management Plan report for the construction of the Polokwane High Court. General Environmental Control Officer duties.

South32, Enslin Crossing, Ogies, Mpumalanga: Environmental Management Plan report for the construction of a road crossing.

#### **PROJECT EXPERIECE: MINING**

Steenkampskraal Monazite Mine (Pty) Ltd: Steenkampskraal, Western Cape. Intergrated Water and Waste Management Programme and Rehabilitation Strategy and Implementation Programme for an existing mine that intend on being recomissioned.

Witkop Fluorpsar (Pty) Ltd, Kanakies, Northern Cape: Scoping Report, Management Plan report, Environmental Impact Assessment and Environmental Management Plan report for activities associated with the mining of gypsum. Full Public Participation Process under NEMA and EIA Regulations and for a mining right application and a Rehabilitation Plan

Witkop Fluorpsar (Pty) Ltd, Verdoorstkolk, Northern Cape: Co-author of Basic Assessment and Management Plan report for activities associated with the prospecting of gypsum. Full Public Participation Process under NEMA and EIA Regulations and for a prospecting right application.



Mhloli Mining and Exploration (Pty) Ltd: Rietbult, Limpopo. Basic Assessment and Management Plan report for activities associated with the prospecting of gold. Full Public Participation Process under NEMA and EIA Regulations and for a prospecting right application.

Afrisam (Pty) Ltd, Ulco, Northern Cape: Water Use License Audit; Atmospheric Emission License Audit; and Environmental Management Plan report.

Corobrik (Pty) Ltd, Olifantsfontein, Driefontein, Rietvlei, and Springs: Water Use License Audit; Water Use Audit; partial application of National Water Use Licenses and Alien invasive plant identification.

Droogvallei Rail Siding Company (Pty) Ltd, Carolina, Mpumalanga: Environmental monthly inspections and reporting, monthly water sampling (surface and ground water) and dust fall out monitoring, Environmental Compliance Audit; Annual IWWMP update and IWUL Audit.

Eyethu Coal (Pty) Ltd: Leeuwpoort, Inyanda, Blesboklaagte, and Blackhll Siding - Closure and Rehabilitation Reports.

Tegeta Exploration and Resources (Pty) Ltd, Brakfontein Colliery, Delmas, Mpumalanga: Environmental monthly inspections and reporting; monthly water sampling (surface and ground water); and Environmental Compliance Audit.

Pan African Resources, Evander Gold Mines, Evander, Mpumalanga: Full Public Participation Process under NEMA and EIA Regulations for a Mining Right Applicaton.

Mmakau Coal (Pty) Ltd, Schurvekop Mine, Bethal, Mpumalanga: Full Public Participation Process under NEMA and EIA Regulations for a Mining Right Application and noise monitoring of baseline levels for EIA/EMPr.

Shiva Uranium (Pty) Ltd, Gold and Uranium Operations, Mpumalanga: Environmental Compliance Audit.

Pan Africa Resources PLC: Barberton Mines (Pty) Ltd – Fairview Mine: Full Public Participation Process under NEMA Regulations for a Mining Right Application.

Future Coal (Pty) Ltd, Chelmsford Mine, Newcastle, Kwa-Zulu Natal: Full Public Participation Process under NEMA and EIA Regulations for an EMPr amendment.

Thutha Amalahle (Pty) Ltd: Water Use License Application and Intergrated Water and Waste Management Programme. Full Public Participation Process under the NWA. G&W Base and Industrial Minerals (Pty) Ltd, Koppies Bentonite Mine, Free State: GN704 Compliance Audit.

Uitkomst Colliery (Pty) Ltd, Wykoms Siding, Newcastle, Kwa-Zulu Natal: Environmental compliance inspection

### **PROJECT EXPERIENCE: FACTORIES**

DB Thermal, a division of DBT Technologies (Pty) Ltd, Nigel, Gauteng: Water Use Audit, creation and upkeep of environmental management system; internal environmental audits; and environmental awareness training material complication.

Sedibeng Brewery (Pty) Ltd, Meyerton, Gauteng: Closing of ISO14001 external audit findings; creation and upkeep of environmental management system; and Water Use Audit.

### **REVIEWS:**

Minerano Resources (Pty) Ltd, Millo, Freestate: Review of Basic Assessment Report for a prospecting right application.

Minerano Resources (Pty) Ltd, Du Preez Leger, Freestate: Review of Basic Assessment Report for a prospecting right application.

Minerano Resources (Pty) Ltd, Rebelkop, Freestate: Review of Basic Assessment Report for a prospecting right application.

Minerano Resources (Pty) Ltd, Vermeulenskraal, Freestate: Review of Basic Assessment Report for a prospecting right application.

Minerano Resources (Pty) Ltd, Klipbankfontein, Northern Cape: Review of Basic Assessment Report for a prospecting right application.

Minerano Resources (Pty) Ltd, Vaalbank, North West: Review of Basic Assessment Report for a prospecting right application.

Minerano Resources (Pty) Ltd, Rhenosterdrift, North West: Review of Basic Assessment Report for a prospecting right application.

### PROFICIENCIES

Proficient in Microsoft Office Suite (Excel, Word, Outlook etc.) Proficient with SANBI BGIS Proficient with Google Earth Proficient with Global Mapper Proficient with Surfer Proficient in QGIS



Appendix B: Correspondence with the CAA



#### Lelani Claasen

From:	Michael Barnes <michael.barnes@enertrag.co.za></michael.barnes@enertrag.co.za>	
Sent:	Monday, 25 October 2021 10:55	
To:	Lelani Claasen; Michelle Venter	
Cc:	Zinhle Kunene	
Subject:	FW: ATNS confirmation: Obstacle Notice 1/2021 – Appointment of New Windfarm	
	Obstacle Application Service Provider	

Hi Lelani and Michelle,

FYI on the CAA and the DFFE protocols.

Kind regards Mike

From: Lizell Stroh <StrohL@caa.co.za>
Sent: 25 October 2021 08:45
To: Gideon Raath <Gideon.Raath@enertrag.co.za>
Subject: RE: ATNS confirmation: Obstacle Notice 1/2021 – Appointment of New Windfarm Obstacle Application
Service Provider

Good day Gideon,

Please find the notice as on the SACAA website, ATNS as Wind Farm Service provided.

#### http://www.caa.co.za/Pages/Obstacles/Urgent-notices.aspx

SACAA Page - Main Content Section

#### Obstacle Notice 1/2021 - Appointment of New Windfarm Obstacle Application Service Provider

Kindly be advised, as of the 1st of May 2021 Air Traffic and Navigation Services (ATNS) has been appointed as the new Obstacle application Service Provider for Windfarms and later Solar Plants. Their responsibility would pertain to the assessments, maintenance, and all other related matters in respect to Windfarms and in due time Power Plant assessments.

The only documentation are signed agreements between our exec and ATNS, not for public publication.

Kind regards



Lizell Stroh Obstacle Inspector PANS-OPS Section Air Navigation Services Department Tel: +27 11 545 1232 | Mobile: +27 083 461 6660 Email: <u>Strohl@caa.co.za</u> Foll us on **Film ©** 





"We spend most of our waking lives at work, so it's important that we do what we love and love what we do." Richard Branson

From: Gideon Raath < Gideon.Raath@enertrag.co.za>

Sent: Tuesday, 19 October 2021 12:38

To: Lizell Stroh <<u>StrohL@caa.co.za</u>>

Subject: ATNS confirmation: Obstacle Notice 1/2021 – Appointment of New Windfarm Obstacle Application Service Provider

Good day Lizelle,

Please could I ask if there is some formal documentation that you could share, towards proving the appointment of ATNS as the Obstacle Application Service Provider for CAA? I ask as I've been requested for this confirmation from environmental affairs on a few applications of ours and hoping to pre-empt further queries going forward. Is there a gazette or similar formal document perhaps? If not, perhaps just your response on this mail please to confirm might be sufficient?

Kind Regards, **Mr. Gideon Raath** Senior Project Developer

Tel. +27 10 003 0717 | Mob. +27 71 752 8033 | <u>Gideon.Raath@enertrag.co.za</u> | 53 Dudley Road | Parkwood | Johannesburg | South Africa

ENERTRAG South Africa (Pty) Ltd. | Reg no. 2017/143710/07 | Suite 104, Albion Springs | 183 Main Road | Rondebosch | Cape Town | South Africa | 7700 | Dr. Tobias Bischof-Niemz, Stephen Koopman, Mercia Grimbeek | www.enertrag.co.za

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01 July 2022

# SITE SENSITIVITY VERIFICATION AND REPORT ACCORDING TO THE PROTOCOL WHERE A SPECIALIST ASSESSMENT IS REQUIRED BUT NO SPECIFIC ASSESSMENT PROTOCOL HAS BEEN PRESCRIBED (Government Notice 320 of 20 March 2020)

### **RFI ASSESSMENT**

### HENDRINA NORTH GRID INFRASTRUCTURE, MPUMALANGA

### 1 Introduction

ENERTRAG South Africa (Pty) Ltd (the Developer) proposes the development of the Hendrina Renewable Energy Complex, comprising the following Projects:

- Hendrina North Wind Energy Facility (up to 200MW) over 3600ha;
- Hendrina South Wind Energy Facility (up to 200MW) over 2900ha;
- Hendrina North Grid Infrastructure (up to 275kV) 15km; and
- Hendrina South Grid Infrastructure (up to 275kV) 16km.

The Screening Tool Report generated for this Project relates to the Application Category: Utilities Infrastructure – Electricity – Distribution and Transmission – Powerline. The screening tool identified that the proposed development site has a High Sensitivity in terms of the Radio-Frequency Interference (RFI) (Powerline) Theme, but no assessment protocol for RFI Assessments has yet been published.

## 2 Terms of Reference

Where a specialist assessment is required and no specific environmental theme protocol has been prescribed, the required level of assessment must be based on the findings of the site sensitivity verification and must comply with Appendix 6 of the EIA Regulations.

A site sensitivity verification was undertaken by the Environmental Assessment Practitioner (EAP) identified in Table 1.

Author and EAP	Michelle Venter
Contact Details	011 795 7534
	Michelle@cabangaenvironmental.co.za
Highest qualification	BSc Hons Geography; BSc Environmental Management & Zoology
Years' experience	10+ years
Professional registration	Registered EAP: 2019/456 (EAPASA)
	SACNASP: Cert. Sci. Nat. 114447

### Table 1: Details of the EAP

The site sensitivity verification was undertaken through the use of:

- a desk top analysis, using satellite imagery;
- a preliminary on-site inspection; and
- other available and relevant information, including internet searches and consideration of the public participation process associated with the Application.





## 3 Site Sensitivity Verification

Radio-Frequency Interference (RFI) and Electromagnetic Interference (EMI) are caused by transmitters of the same or similar frequency.

Infrastructure in the vicinity of the Project Area like telecommunication towers do exist. The Project is not expected to emit any radio-frequencies (other than normal emergency radio and cell-phone communication between people on site, as is currently occurring between farmers in the region and on the mines in the region).

The Sensitivity indicated by the screening tool in terms of the RFI (Powerline) Theme, is because the portions of the 500m wide powerline corridor is located within 1km of a telecommunication facility. It must be noted that the proposed powerline follows the existing Camden-Komati 275 kV line. The remainder of the project area is indicated as "Medium" Sensitivity and "Low" Sensitivity.

The Grid Infrastructure has been classified as follows:

• High Sensitivity: Within 1 km of a telecommunication facility; None; More than 60 km from a Weather Radar installation

The Weather Radar installation appears on the Screening Tool to be within the town of Ermelo, some 50km from the Site.

The South African Weather Service is being consulted as part of the public participation process undertaken for the Project.

Therefore, based on the desktop information reviewed and knowledge of the site area, it is expected that the site will have a <u>low sensitivity</u> in terms of the RFI Theme.

## 4 Report on the site sensitivity verification according to Appendix 6 of the EIA Regulations

Table 2 lists the requirements of Appendix 6 of the EIA Regulations, and responds to each requirements, to ensure this Compliance Statement meets the regulatory requirements in the absence of a published assessment protocol.



## 5 Sensitivity Map



Plan 1: Proposed development footprint (including supporting infrastructure)- 500 metre powerline corridor overlaid on the RFI (Powerline) Theme sensitivity map generated by the screening tool



# Table 2: Requirements of Appendix 6 of the EIA Regulations

No	Requirement	Where the requirement has been addressed in this Report
(1)(a) and (b)	<ul> <li>A specialist report prepared in terms of these Regulations must contain—</li> <li>(a) details of—</li> <li>(i) the specialist who prepared the report; and</li> <li>(ii) the expertise of that specialist to compile a specialist report including a curriculum vitae;</li> <li>(b) a declaration that the specialist is independent in a form as may be specified by the competent authority;</li> </ul>	Table 1 Error! Reference source not found. Section 6
(1)(C)	an indication of the scope of, and the purpose for which, the report was prepared	Section 2 – this report is prepared to address the requirements of the Screening Tool.
(1)(CA)	an indication of the quality and age of base data used for the specialist report	Data from the Screening Tool was the primary input to this Report, along with review of aerial imagery of the site and surrounds, and numerous site visits undertaken to the project area over several years.
(1)(cB)	a description of existing impacts on the site, cumulative impacts of the proposed development and levels of acceptable change	The site is presently impacted by agricultural activities, roads, dams, powerlines and coal mining mostly to the south. The proposed powerline routes will largely follow the existing Camden-Komati 275kV powerline. A comprehensive cumulative assessment of all impacts is included in the EIA Report. It is not expected that this Project will contribute cumulatively to RFI.
(1)(d)	the duration, date and season of the site investigation and the relevance of the season to the outcome of the assessment	The season of the site visits have no bearing on the knowledge that the EAP has gained of the Project Area over several years of working in the area.
(1)(e)	a description of the methodology adopted in preparing the report or carrying out the specialised process inclusive of equipment and modelling used	This report is prepared in reference to the Screening Tool and "Site Sensitivity Verification Requirements Where a Specialist Assessment is Required but no Specific Assessment Protocol has been prescribed" published in Government Notice 320.
(1)(f)	details of an assessment of the specific identified sensitivity of the site related to the proposed activity or activities and its associated structures and infrastructure, inclusive of a site plan identifying site alternatives	See Section 3 and Plan 1
(1)(g)	an identification of any areas to be avoided, including buffers	None
(1)(h)	a map superimposing the activity including the associated structures and infrastructure on the environmental sensitivities of the site including areas to be avoided, including buffers	Plan 1
(1)(i)	a description of any assumptions made and any uncertainties or gaps in knowledge	None



No	Requirement	Where the requirement has been addressed in this
		Report
(1)(j)	a description of the findings and potential implications of such findings on the	The Site intercepts a "high" sensitivity area, because it
	impact of the proposed activity or activities	is within 1km of a telecommunication facility.
		There should be no or very limited and mitigatable
		impact from the proposed project.
(1)(k)	any mitigation measures for inclusion in the EMPr	None
(1)(I)	any conditions for inclusion in the environmental authorisation	None
(1)(m)	any monitoring requirements for inclusion in the EMPr or environmental	None
	authorisation	
(1)(n)	a reasoned opinion—	It is the EAPs opinion that the proposed Project will not
	(i) whether the proposed activity, activities or portions thereof should be	impact on existing Weather Radar Installations in
	authorised	Ermelo and that the project will not require further
	(iA) regarding the acceptability of the proposed activity or activities; and	assessment in terms of potential RFI.
	(ii) if the opinion is that the proposed activity, activities or portions thereof should	The Developer will continue to liaise with SAWS in the
	be authorised, any avoidance, management and mitigation measures that	detailed design phase of the Project, but at this stage
	should be included in the EMPr, and in the case of a closure activity, the closure	no flaws have been identified from an RFI perspective
	plan;	and the project can proceed.
(1)(0)	a description of any consultation process that was undertaken during the course	Please refer to the Main EIA Report.
	of preparing the specialist report	
(1)(p)	a summary and copies of any comments received during any consultation	Please refer to the Main EIA Report.
	process and where applicable all responses thereto	
(1)(q)	any other information requested by the competent authority	None specific to RFI Assessment.



## 6 Statement of Independence

I, <u>MICHELLE VENTER</u>, declare that –

- I act as the independent environmental assessment practitioner in this application;
- I have expertise in conducting environmental impact assessments, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I will take into account, to the extent possible, the matters listed in Regulation 13 of the Regulations when preparing the application and any report relating to the application;
- I undertake to disclose to the applicant and the Competent Authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the Competent Authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the Competent Authority, unless access to that information is protected by law, in which case it will be indicated that such information exists and will be provided to the Competent Authority;
- I will perform all obligations as expected from an environmental assessment practitioner in terms of the Regulations; and
- I am aware of what constitutes an offence in terms of Regulation 48 and that a person convicted of an offence in terms of Regulation 48(1) is liable to the penalties as contemplated in Section 49B of the Act.
- I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity proceeding other than remuneration for work performed in terms of the Regulations;



Mi Alle Vap

Signature of the Environmental Assessment Practitioner

Cabanga Concepts CC trading as Cabanga Environmental

Name of Company:

01 July 2022

Date



### Appendix A: CV of the EAP



### CURRICULUM VITAE: MICHELLE VENTER

### **PROFESSIONAL PROFILE**

Key Experience includes:

- Environmental Auditing
- Water Use License Auditing
- Basic Assessments
- Scoping Reports
- Environmental Impact Assessments
- Environmental Management Programmes
- Rehabilitation and Closure reports
- Water Use License Applications and IWWMP compilation, IWWMP Annual Updates
- Monitoring (dust, water and noise) and Compliance
- GIS Mapwork
- Public Participation Process

#### YEARS EXPERIENCE

10 years

### QUALIFICATIONS

**BSc Honours in Geography**, University of South Africa, 2014

**BSc Environmental Management & Zoology**, University of South Africa, 2010

### **PROFESSIONAL MEMBERSHIPS & AFFILIATIONS**

South African Council for Natural Scientific Professions (SACNASP): Certificated Natural Scientist-Reg. No. 114447

Registered EAP (EAPASA): 2019/456

Society of South African Geographers (SSAG): 27/19

### COURSES, WORKSHOPS & SEMINARS

An Introduction on How to Map and Groundtruth Wetlands, Western Cape Wetlands Forum, 2020

Introductory EIA Report Writing, IAIASA, 2020

#### IWRM, NWA, and Water Use Authorisations: Focusing

on WULA's and IWWMP's, Carin Bosman Sustainble

### Solutions, 2018

NWA: Workshop on Section 21(c) and (i) Water Use Activities, Department of Water Affairs and Sanitation, 2017

SANBI GIS Training, SANBI, 2017

#### **EMPLOYEMENT HISTORY**

Cabanga Environmental: 2016- current

Position Held: Environmental Assessment Practitioner and Public Participation Officer

Phanda Risk Firm: 2014-2016 (2 years)

Last Position Held: Environmental Control Officer

CS Environmental Services: 2010-2014 (4 years)

Last Position Held: Junior Environmental Consultant

### **PROJECT EXPERIENCE: DEVELOPMENT**

Khusile Power Station: Ogies, Mpumalanga: Environmental awareness training material compilation during the construction of the power station.

Polokwane High Court: Polokwane, Limpopo: Internal environmental compliance and Environmental Management Plan report for the construction of the Polokwane High Court. General Environmental Control Officer duties.

South32, Enslin Crossing, Ogies, Mpumalanga: Environmental Management Plan report for the construction of a road crossing.

### **PROJECT EXPERIECE: MINING**

Steenkampskraal Monazite Mine (Pty) Ltd: Steenkampskraal, Western Cape. Intergrated Water and Waste Management Programme and Rehabilitation Strategy and Implementation Programme for an existing mine that intend on being recomissioned.

Witkop Fluorpsar (Pty) Ltd, Kanakies, Northern Cape: Scoping Report, Management Plan report, Environmental Impact Assessment and Environmental Management Plan report for activities associated with the mining of gypsum. Full Public Participation Process under NEMA and EIA Regulations and for a mining right application and a Rehabilitation Plan

Witkop Fluorpsar (Pty) Ltd, Verdoorstkolk, Northern Cape: Co-author of Basic Assessment and Management Plan report for activities associated with the prospecting of gypsum. Full Public Participation Process under NEMA and EIA Regulations and for a prospecting right application.



Mhloli Mining and Exploration (Pty) Ltd: Rietbult, Limpopo. Basic Assessment and Management Plan report for activities associated with the prospecting of gold. Full Public Participation Process under NEMA and EIA Regulations and for a prospecting right application.

Afrisam (Pty) Ltd, Ulco, Northern Cape: Water Use License Audit; Atmospheric Emission License Audit; and Environmental Management Plan report.

Corobrik (Pty) Ltd, Olifantsfontein, Driefontein, Rietvlei, and Springs: Water Use License Audit; Water Use Audit; partial application of National Water Use Licenses and Alien invasive plant identification.

Droogvallei Rail Siding Company (Pty) Ltd, Carolina, Mpumalanga: Environmental monthly inspections and reporting, monthly water sampling (surface and ground water) and dust fall out monitoring, Environmental Compliance Audit; Annual IWWMP update and IWUL Audit.

Eyethu Coal (Pty) Ltd: Leeuwpoort, Inyanda, Blesboklaagte, and Blackhll Siding - Closure and Rehabilitation Reports.

Tegeta Exploration and Resources (Pty) Ltd, Brakfontein Colliery, Delmas, Mpumalanga: Environmental monthly inspections and reporting; monthly water sampling (surface and ground water); and Environmental Compliance Audit.

Pan African Resources, Evander Gold Mines, Evander, Mpumalanga: Full Public Participation Process under NEMA and EIA Regulations for a Mining Right Applicaton.

Mmakau Coal (Pty) Ltd, Schurvekop Mine, Bethal, Mpumalanga: Full Public Participation Process under NEMA and EIA Regulations for a Mining Right Application and noise monitoring of baseline levels for EIA/EMPr.

Shiva Uranium (Pty) Ltd, Gold and Uranium Operations, Mpumalanga: Environmental Compliance Audit.

Pan Africa Resources PLC: Barberton Mines (Pty) Ltd – Fairview Mine: Full Public Participation Process under NEMA Regulations for a Mining Right Application.

Future Coal (Pty) Ltd, Chelmsford Mine, Newcastle, Kwa-Zulu Natal: Full Public Participation Process under NEMA and EIA Regulations for an EMPr amendment.

Thutha Amalahle (Pty) Ltd: Water Use License Application and Intergrated Water and Waste Management Programme. Full Public Participation Process under the NWA. G&W Base and Industrial Minerals (Pty) Ltd, Koppies Bentonite Mine, Free State: GN704 Compliance Audit.

Uitkomst Colliery (Pty) Ltd, Wykoms Siding, Newcastle, Kwa-Zulu Natal: Environmental compliance inspection

### **PROJECT EXPERIENCE: FACTORIES**

DB Thermal, a division of DBT Technologies (Pty) Ltd, Nigel, Gauteng: Water Use Audit, creation and upkeep of environmental management system; internal environmental audits; and environmental awareness training material complication.

Sedibeng Brewery (Pty) Ltd, Meyerton, Gauteng: Closing of ISO14001 external audit findings; creation and upkeep of environmental management system; and Water Use Audit.

#### **REVIEWS:**

Minerano Resources (Pty) Ltd, Millo, Freestate: Review of Basic Assessment Report for a prospecting right application.

Minerano Resources (Pty) Ltd, Du Preez Leger, Freestate: Review of Basic Assessment Report for a prospecting right application.

Minerano Resources (Pty) Ltd, Rebelkop, Freestate: Review of Basic Assessment Report for a prospecting right application.

Minerano Resources (Pty) Ltd, Vermeulenskraal, Freestate: Review of Basic Assessment Report for a prospecting right application.

Minerano Resources (Pty) Ltd, Klipbankfontein, Northern Cape: Review of Basic Assessment Report for a prospecting right application.

Minerano Resources (Pty) Ltd, Vaalbank, North West: Review of Basic Assessment Report for a prospecting right application.

Minerano Resources (Pty) Ltd, Rhenosterdrift, North West: Review of Basic Assessment Report for a prospecting right application.

#### PROFICIENCIES

Proficient in Microsoft Office Suite (Excel, Word, Outlook etc.)

Proficient with SANBI BGIS Proficient with Google Earth Proficient with Global Mapper Proficient with Surfer Proficient in QGIS



09 July 2022

# SITE SENSITIVITY VERIFICATION AND REPORT ACCORDING TO THE PROTOCOL FOR THE SPECIALIST ASSESSMENT AND MINIMUM REPORT CONTENT REQUIREMENTS FOR ENVIRONMENTAL IMPACTS ON DEFENCE INSTALLATIONS (Government Notice 320 of 20 March 2020)

### HENDRINA NORTH GRID INFRASTRUCTURE, MPUMALANGA

### 1 Introduction

ENERTRAG South Africa (Pty) Ltd (the Developer) proposes the development of the Hendrina Renewable Energy Complex, comprising the following Projects:

- Hendrina North Wind Energy Facility (up to 200MW) over 3600ha;
- Hendrina South Wind Energy Facility (up to 200MW) over 2900ha;
- Hendrina North Grid Infrastructure (up to 275kV) 15km; and
- Hendrina South Grid Infrastructure (up to 275kV) 16km.

The National Web-Based environmental screening tool identified that the proposed development site has a Low Sensitivity in terms of the Defence Theme. The Screening Tool Report generated for this Project relates to the Application Category: Utilities Infrastructure – electricity - Distribution and Transmission - Powerline (https://screening.environment.gov.za/screeningtool).

The Protocol for the specialist assessment and minimum report content requirements for environmental impacts on defence installations (The Protocol) states that "Prior to commencing with a specialist assessment, the current use of the land and the potential environmental sensitivity of the site under consideration as identified by the screening tool must be confirmed by undertaking a site sensitivity verification."

The sensitivity verification that was undertaken by the environmental assessment practitioner (EAP) (see Table 1) included desktop analysis using aerial imagery obtained from Google Earth Pro, and various site inspections to the proposed development site and surrounding areas.

Author and EAP	Michelle Venter			
Contact Details	011 794 7534 or info@cabangenvironmental.co.za			
Highest qualification	BSc Hons Geography			
Years' experience	10+ years			
Professional registration	Registered Environmental Assessment Practitioner (EAP) with the Environmental Assessment Practitioner's Association of South Africa (EAPASA). Registration Number 2019/456. Registered Certified Natural Scientist (Cert. Sci. Nat (Reg. 114447) (Environmental Science) with the South African Council for Natural Scientific Professions (SACNASP).			

### Table 1: Details of the EAP





## 2 Site Sensitivity Verification

General photographs of the site and surrounding areas are provided in Figure 1.

The site, and proposed infrastructure, in relation to the sensitivity in terms of the Defence Theme (as generated by the screening tool) is shown in Plan 1.

No evidence could be obtained during the desktop information review or on-site investigations that would indicate a different sensitivity classification than provided by the screening Tool, i.e. **Low**.

As per the Protocol<u>, no further assessment requirements</u> are identified on a site identified as being of "Low" sensitivity in terms of the Defence Theme.



Figure 1: General views of the development site and surroundings, showing agricultural activities, some natural areas remaining, powerlines and the Komati Power Station on the horizon



## 3 Sensitivity Map



Plan 1: Proposed development footprint (including supporting infrastructure) overlaid on the Defence Theme sensitivity map generated by the screening tool



## 4 Statement of Independence

I, <u>MICHELLE VENTER</u>, declare that –

- I act as the independent environmental assessment practitioner in this application;
- I have expertise in conducting environmental impact assessments, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I will take into account, to the extent possible, the matters listed in Regulation 13 of the Regulations when preparing the application and any report relating to the application;
- I undertake to disclose to the applicant and the Competent Authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the Competent Authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the Competent Authority, unless access to that information is protected by law, in which case it will be indicated that such information exists and will be provided to the Competent Authority;
- I will perform all obligations as expected from an environmental assessment practitioner in terms of the Regulations; and
- I am aware of what constitutes an offence in terms of Regulation 48 and that a person convicted of an offence in terms of Regulation 48(1) is liable to the penalties as contemplated in Section 49B of the Act.
- I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity proceeding other than remuneration for work performed in terms of the Regulations;

Mi Alle Val

Signature of the Environmental Assessment Practitioner

Cabanga Concepts CC trading as Cabanga Environmental

Name of Company:

09 JULY 2022

Date

### APPENDIX 2: CV OF EAP

CV of Michelle Venter can be found in Appendix D of the EIA Report.