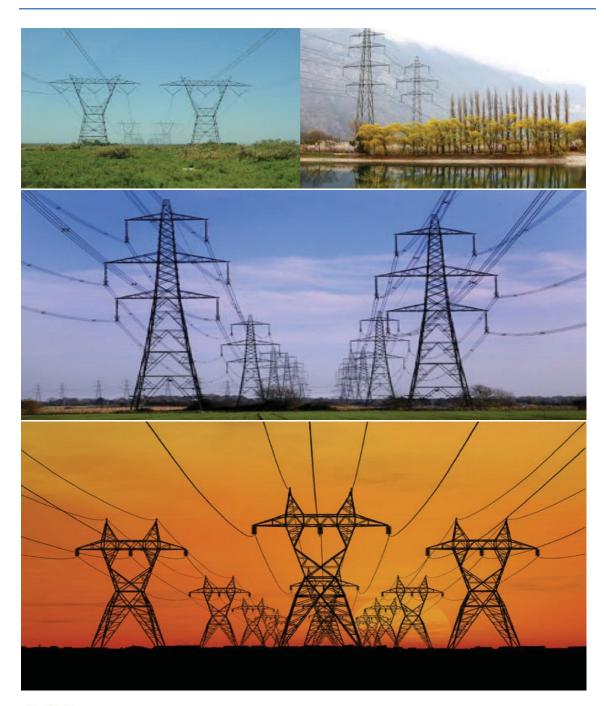
ARARAT-BAFOKENG 88kV PROJECT GENERIC ENVIRONMENTAL MANAGEMENT PROGRAMME (EMPr) FOR THE DEVELOPMENT AND EXPANSION FOR OVERHEAD ELECTRICITY TRANSMISSION AND DISTRIBUTION INFRASTRUCTURE





environmental affairs Department: Environmental Affairs REPUBLIC OF SOUTH AFRICA

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INTRODUCTION

1. Background

The <u>National Environmental Management Act</u>, 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:

Parl	Section	Heading	Content			
A		Provides general guidance and information and is not legally binding	Definitions, acronyms, roles & responsibilities and documentation and reporting.			
B 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 is not required 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 accessible website.			
	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 template contained in Part B: Section 1 and understands that the impact management outcomes and impact management actions are legally binding. 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 Part C.			
			This section must be submitted to the CA together with the final			

Part	PartSection Heading			Content		
				BAR or EIAR. The information submitted to the CA will be considered to be incomplete should a signed copy of Part B: section 2 not be submitted. Once approved, this Section forms part of the EMPr for the development and is legally binding.		
С	Site attribu	specific tes	sensitivities/	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 Part C is applicable to the site, it is required 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. This section applies only to additional 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		
Ар	Appendix 1			are not already included in Part B: section 1. Contains the method statements to be prepared prior to commencement of the activity. The method statements are not required 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
 - o a 'responsible person',
 - o a method for implementation,
 - o a timeframe for implementation
- For monitoring
 - o a responsible person
 - o frequency
 - \circ 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 Appendix 1. 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

Part B: Section 2 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.

Sub-section 1 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: htttps://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.

Sub-section 3 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 preapproved generic EMPr template in Section 1 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, Part B: Section 2 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 Part B: Section 2 not be submitted. Once approved, Part B: Section 2 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 <u>Hazardous Substances Act.</u> 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.

Table 1: Guide to roles and responsibilities for implementation of an EMPr						
Responsible Person	Role and Responsibilities					
(s)						
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. Responsibilities Be fully conversant with the conditions of the EA; Ensure that all stipulations within the EMPr are communicated and adhered to by the Developer and its Contractor(s); Issuing of site instructions to the Contractor for corrective actions required; 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 Ensure that periodic environmental performance audits are undertaken on the project 					
Developer Site Supervisor (DSS)	Role					

Responsible Person (s)	Role and Responsibilities			
	 The DSS reports directly to the DPM, oversees site works, liaises with the contractor(s) and the ECO. The DSS 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. Responsibilities 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 be specified by the EA, report to the relevant CA as and when required.			

Responsible Person (s)	Role and Responsibilities
	 Responsibilities The responsibilities of the ECO will include the following: Be aware of the findings and conclusions of all EA related to the development; Be familiar with the recommendations and mitigation measures of this EMPr; Be conversant with relevant environmental legislation, policies and procedures, and ensure compliance with them; 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; Educate the construction team about the management measures contained in the EMPr and environmental licenses; Compilation and administration of an environmental monitoring plan to ensure that the environmental management measures are implemented and are effective; Monitoring the performance of the Contractors and ensuring compliance with the EMPr and associated Method Statements; 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; Liaison between the DPM, Contractors, authorities and other lead stakeholders on all environmental audit report highlighting any non-compliance issues as well as satisfactory or exceptional compliance with the EMPr; Validating the regular site inspection reports, which are to be prepared by the contractor Environmental Incidents (spills, impacts, legal transgressions etc) as well as corrective and preventive actions taken; Checking the cEO's public complaints register in which all compliants are recorded, as well as action taken; Assisting in the resolution of conflicts; Facilitate training for all personnel on the site – this may range from carrying out the training, to reviewing the training programmes of the COntractor; In case of non-compliances, the ECO must first communicate this to

Responsible Person (s)	Role and Responsibilities
developer Environmental Officer (dEO)	Role 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.
	 Responsibilities Be fully conversant with the EMPr; Be familiar with the recommendations and mitigation measures of this EMPr, and implement these measures; Ensure that all stipulations within the EMPr are communicated and adhered to by the Employees, Contractor(s); Confine the development site to the demarcated area; Conduct environmental internal audits with regards to EMPr and authorisation compliance (on cEO); Assist the contractors in addressing environmental challenges on site; Assist in incident management: Reporting environmental incidents to developer and ensuring that corrective action is taken, and lessons learnt shared; Assist the contractor in investigating environmental incidents and compile investigation reports; Follow-up on pre-warnings, defects, non-conformance reports; Measure and communicate environmental performance to the Contractor; Conduct environmental awareness training on site together with ECO and cEO; Ensure that the necessary legal permits and / or licenses are in place and up to date; Acting as Developer's Environmental Representative on site and work together with the ECO and centractor;
Contractor	and work together with the ECO and 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.
Contractor Environmental Officer (cEO)	 Responsibilities project delivery and quality control for the development services as per appointment; employ a suitably qualified person to monitor and report to the Project Developer's appointed person on the daily activities onsite during the construction period; 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; attend on site meeting(s) prior to the commencement of activities to confirm the procedure and designated activity zones; 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. 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:
	 Responsibilities Be on site throughout the duration of the project and be dedicated to the project; Ensure all their staff are aware of the environmental requirements, conditions and constraints with respect to all of their activities on site; Implementing the environmental conditions, guidelines and requirements as stipulated within the EA, EMPr and Method Statements; Attend the Environmental Site Meeting; Undertaking corrective actions where non-compliances are registered within the stipulated timeframes; Report back formally on the completion of corrective actions; Assist the ECO in maintaining all the site documentation; Prepare the site inspection reports and corrective action reports for submission to the ECO;

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 paleontology management.

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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;
 - o If the incident is listed as significant, a non-compliance notice must be issued, and
 - \circ recorded in the log;
 - Remedial or corrective action taken to mitigate the incident; and
 - o 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 tatutes 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.
- 2. The ECOs shall keep an electronic database of photographic records which will include:
- 3. Pictures of all areas designated as work areas, camp areas, development sites and
- 4. storage areas taken before these areas are set up;
- 5. All bunding and fencing;
- 6. Road conditions and road verges;
- 7. Condition of all farm fences;
- 8. Topsoil storage areas;
- 9. All areas to be cordoned off during construction;
- 10. Waste management sites;
- 11. Ablution facilities (inside and out);
- 12. Any non-conformances deemed to be "significant";
- 13. All completed corrective actions for non-compliances;
- 14. All required signage;
- 15. Photographic recordings of incidents;
- 16. All areas before, during and post rehabilitation; and
- 17. 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
- 5. or damage (ECOs to take relevant photographs); and
- 6. 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
- 3. record of the agreement kept in the EMPr file;
- 4. Ensure that a compl ai nts telephone numbers are made available to all landowners and affected parties; and 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

I 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			
	Responsible	Method of	Timeframe for	ResponsibleFrequence	yEvidence of		
	person	implementation	implementation	person	compliance		
 All staff must receive environmental awareness training prior to commencement of the activities; The Contractor must allow for sufficient sessions to train all personnel with no more than 20 personnel attending each course; Refresher environmental awareness training is available as and when required; 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; The Contractor must erect and maintain information posters at key locations on site, and the posters must include the following information as a minimum: Safety notifications; and No littering. Environmental awareness training must include as a minimum the following: a) Description of significant environmental impacts, actual or potential, related to their 	ECO and cEO	Environmental Induction training; Toolbox talks; other		ECO Monthly	compliance Signed induction and toolbox talk training registers		

b)	Mitigation measures to be implemented			
0)	when carrying out specific activities;			
c)	Emergency preparedness and response			
0)	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;			
h)	Solid waste management procedures;			
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;			
-	Educate workers on the dangers of open			
	and/or unattended 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

npact Management Actions	Implementa	tion	Monitoring					
	Responsible				Frequency Evidence of			
	person	implementation		implementation			compliance	
	Contractor	Method compilation communication Statements employees. Specialist Studi site camps	Statement and of Method to Use of					Metho ; of c ition Liaisc EC si

5.3. Access restricted areas

Impact management outcome: Access to restricted areas prevented.									
Impact Management Actions	Implementatio	on		Monitoring					
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of			
	person	implementation	implementation	person		compliance			
 Identification of access restricted areas is to be informed by the environmental assessment, site walk through and any additional areas identified during development; 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 		Use of Specialist Studies to locate sensitive areas and 'no- go' areas	Prior to construction in new area	ECO		Contractor compliance with sensitive areas			
- Unauthorised access and development related activity inside access restricted areas is prohibited.									

5.4. Access roads

Impact	management outcome: Minimise impact to the environmen	t through the p	lanned and restricte	ed movement of v	ehicles on site.		
Impact	Management Actions	Implementatio	on		Monitoring		
		Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
		person	implementation	implementation	person		compliance
-	Access to the servitude and tower positions must be negotiated with the relevant landowner and must fall within the assessed and authorised area; An access agreement must be formalised and signed by the DPM, Contractor and landowner before commencing with the activities; 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	Contractor	Implementation of mitigation measures	Ongoing	ECO	Monthly	Signed access agreements and maintenance of access roads

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 environmer where required.	nt and ensure	safe and controlle	d access to the site	e through the e	rection of fer	icing and gate
mpact Management Actions	Implementation	on		Monitoring		
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of 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 reelectrified; 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 mar	nagement outcome: Undertake responsible water usage							
Impact Mar	nagement Actions	Implementatio	n		Monitoring			
		Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of	
		person	implementation	implementation	person		compliance	
			Application to	Construction	ECO	Monthly	Proof of	
		and Applicant	DHSWS				water source	
	sure that the abstracted volumes are measured on a		where				used;	
	ily basis;		applicable.				submission	
	e Contractor must ensure the following:		Implementation				of above	
	ne vehicle abstracting water from a river does not enter		of mitigation				proof to	
	cross it and does not operate from within the river;		measures				DHSWS	
	b damage occurs to the river bed or banks and that the							
	straction of water does not entail stream diversion							
	tivities; and							
	reasonable measures to limit pollution or							
	dimentation of the downstream							
	atercourse are implemented.							
	nsure water conservation is being practiced by:							
	nimising water use during cleaning of equipment;							
	ndertaking regular audits of water systems; and							
	cluding a discussion on water usage and conservation							
	ring environmental awareness training.							
d. Ih	e use of grey water is encouraged.							

5.7. Storm and waste water management

Impact	management outcome: Impacts to the environment caused by s	storm water and	wastewater dischar	ges during constru	iction are avoide	d	
Impact	Management Actions	Implementation	n		Monitoring	_	
		Responsible	Method of	Timeframe f	or Responsible	Frequency	Evidence of
		person	implementation	implementation	person		compliance
-	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;		Employ methods to prevent water pollution	Construction	ECO	Weekly	Inspection of areas where construction takes place near
-	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;						watercourses
-	Natural storm water runoff not contaminated during the 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	Implementatio	Implementation			Monitoring				
	•	Method of	Timeframe for	Responsible	Frequency	Evidence of			
	person		implementation	person		compliance			
 All measures regarding waste management must k undertaken using an integrated waste manageme approach; 		waste	Construction	ECO	Weekly	Waste Safe disposal			
approach;	-	management				slips;			
- Sufficient, covered waste collection bins (scavenger ar	a	practices outlined				service level			
weatherproof) must be provided;		in approved				agreements			
- A suitably positioned and clearly demarcated was	e	method							
collection site must be identified and provided;		statement							
 The waste collection site must be maintained in a clean ar orderly manner; 	d								
 Waste must be segregated into separate bins and clear marked for each waste type for recycling and safe disposa 									
 Staff must be trained in waste segregation; Bins must be emptied regularly; 									
 General waste produced onsite must be disposed of registered waste disposal sites/ recycling company; 	at								
 Hazardous waste must be disposed of at a registered was disposal site; 	e								
 Certificates of safe disposal for general, hazardous ar recycled waste must be maintained. 	d								

5.9. Protection of watercourses and estuaries

	management outcome: Pollution and contamination of the			estuary erosion are			
Impact	Management Actions	Implementatio	1	1	Monitoring	T	-1
		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;	Contractor	Method statements; Eskom's Erosion and Stormwater Management Plan	Construction	ECO	Weekly	Method Statement compliance
-	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;						
-	Development of permanent watercourse or estuary crossing must only be undertaken where no alternative access to tower position is available;						
-	There must not be any impact on the long-term morphological dynamics of watercourses or estuaries;						
-	Existing crossing points must be favoured over the creation of new crossings (including temporary access)						
-	When working in or near any watercourse or estuary, the following environmental controls and consideration must be taken:						

No	Water levels during the period of construction; altering of the bed, banks, course or characteristics of a tercourse			
b.	During the execution of the works, appropriate measures to prevent pollution and contamination of the riparian environment must be implemented e.g., including ensuring that construction equipment is well maintained;			
C.	Where earthwork is being undertaken in close proximity to any watercourse, slopes must be stabilised using suitable materials, i.e., sandbags or geotextile fabric, to prevent sand and rock from entering the channel; and			
d.	Appropriate rehabilitation and re-vegetation measures for the watercourse banks must be implemented timeously. In this regard, the banks should be appropriately and incrementally stabilised as soon as development allows.			

5.10. Vegetation clearing

Impact Management Actions	Implementation	on		Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
	Contractor and Applicant	Specialist recommendations: Method statement; Search and Rescue Plan; Alien Vegetation Removal Plan (approved plans and strategies used by Eskom(; site awareness	and Operation		Pre- Constructior and weekly during construction	

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.

Servitude:

- 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. 				
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5.11. Protection of fauna

pact Management Actions	Implementation	on		Monitoring		
	Responsible		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; Breeding sites must be kept intact and disturbance to breeding birds must be avoided. Special care must be taken where nestlings or fledglings are present; Nesting sites on existing parallel lines must documented; Special recommendations of the avian specialist must be adhered to at all times to prevent unnecessary disturbance of birds; Bird guards and diverters must be installed on the new line as per the recommendations of the specialist; No poaching must be tolerated under any circumstances. All animal dens in close proximity to the works areas must be marked as Access restricted areas; No deliberate or intentional killing of fauna is allowed; 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 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/o relocated without appropriate 	Contractor	Method statement and adherence to exclusion/no-go zones; site awareness		ECO	Weekly	Public complaints register; adherence to exclusion/i o-go zone and metho statements

authorisations/permits.						
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5.12. Protection of heritage resources

Impact management outcome: Minimise impact to heritage resource	es.					
Impact Management Actions	Implementatio	on		Monitoring		
	Responsible	Method of	Timeframe	Responsible	Frequency	Evidence of
	person	implementation	for	person		compliance
			implementation			
- Identify, demarcate and prevent impact to all known	Contractor	Method	Pre-construction	ECO	Weekly	Monitoring of
sensitive heritage features on site in accordance with the		Statement;	and construction		and daily	construction
No-Go procedure in Section 5.3: Access restricted areas;		Heritage			for zones	areas;
- Carry out general monitoring of excavations for potential		Management			highlighted	adherence to
fossils, artefacts and material of heritage importance;		Plan			by	management
- All work must cease immediately, if any human remains					Heritage	plan if
and/or other archaeological, palaeontological and historical					Specialist	chance finds
material are uncovered. Such material, if exposed, must be						found
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.						

5.13. Safety of the public

Impact management outcome: All precautions are taken to minimis	se the risk of in	ijury, harm or comp	plaints.					
Impact Management Actions	Implementatio	Implementation			Monitoring			
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of		
	person	implementation	implementation	person		compliance		
 Identify fire hazards, demarcate and restrict public access to 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; Ensure structures vulnerable to high winds are secured; Maintain an incidents and complaints register in which al incidents or complaints involving the public are logged. 		Method Statement	Construction	ECO		Site works barricaded; safe working site maintained; public complaints register		

5.14. Sanitation

pact Manager	ment Actions	Implementa	tion		Monitoring		
		Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
		person	implementation	implementation	person		compliance
 onsite ir availabl The us mobile ir and no the pu permittee Where required Toilets a to any w Toilets prevent or any c No spill cleaned manage d. Toilets 	chemical toilets are installed f no other ablution facilities are e; e of ablution facilities and or toilets must be used at all times indiscriminate use of the veld for rposes of ablutions must be ed under any circumstances; mobile chemical toilets are d, the following must be ensured: are located no closer than 100 m vatercourse or water body; are secured to the ground to them from toppling due to wind other cause; age occurs when the toilets are or emptied and the contents are ed in accordance with the EMPr; have an external closing iism and are closed and secured			Construction			Service level agreem with service provid proof of safe disposa waste
prevent e. Toilets	e outside when not in use to toilet paper from being blown out; are emptied before long ds and workers holidays, and						

f. Toilets are serviced regularly and the				
ECO must inspect toilets to ensure				
compliance to health standards;				
 A copy of the waste disposal certificates 				
must be maintained.				

5.15. Prevention of disease

Impact Management outcome: All necessary precautions linked to Impact Management Actions	the spread of Implementation			Monitoring		
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance
 Undertake environmentally friendly pest control in the camparea; Ensure that the workforce is sensitised to the effects of sexually transmitted diseases, especially HIV AIDS; The Contractor must ensure that information posters or AIDS are displayed in the Contractor Camp area; Information and education relating to sexually transmitted diseases to be made available to both construction workers and local community, where applicable; Free condoms must be made available to all staff on site a central points; Medical support must be made available; Provide access to Voluntary HIV Testing and Counselling Services. 	f 1 5 t	Method statement; awareness training	Construction	ECO	Monthly	Method statement; proof of awareness training

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

5.17. Hazardous substances

Impact management outcome: Safe storage, handling, use and disposal of hazardous substances.										
Impact Management Actions	Implementatio	n		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 		Method statement; OHS requirements; adequate and responsible use and storage of hazardous substances; hazardous substance storage register		ECO	Weekly	Hazardous substance storage register; MSDS; method statement				

	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 refuelling 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 substance's			
	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 refuelling away from the dedicated refuelling			
	station is required, a mobile refuelling 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 or			

 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. 	- 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 <i>waste water</i> <i>management and 5.8 for solid and hazardous waste</i>				
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5.18. Workshop, equipment maintenance and storage

npact Management Actions	Implementatio	on		Monitoring			
	Responsible person		Timeframe for implementation	Responsible person	Frequency	Evidence of 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 affected 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; Workshop areas must be monitored for oil and fuel spills; Appropriately sized spill kit kept onsite relevant to the scale of the activity taking place must be available; The workshop area must have a bunded concrete slab that is sloped to facilitate runoff into a collection sump or suitable oil / water separator where maintenance work on vehicles and equipment can be performed; Water drainage from the workshop must be contained and managed in accordance Section 5.7: storm and waste water management 	Contractor	Method statement; OHS requirements; hazardous substances storage register; vehicle daily checklist; vehicle service register	Construction	ECO	Weekly	Method statement; hazardous substances storage register; vehicle dail checklist; vehicle service	

5.19. Batching plants

Impact management outcome: Minimise spillages and contamination of soil, surface water and groundwater.										
Impact Management Actions	Implementation	on	•	Monitoring						
	Responsible		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 containmer 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 facilitit 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 kep damp to prevent the generation of dust (Refer to Section 5.20: Dust emissions) Any excess sand, stone and cement must be removed or reused from site on completion of construction period and disposed at a registered disposal facility; Temporary fencing must be erected around batching plant in accordance with Section 5.5: Fencing and gate installation. 	eContractor t b y d e e e e e e t n r d	Method statement		ECO	Weekly	Compliance to mitigation and method statement				

5.20. Dust emissions

Impact management outcome: Dust prevention measures are applied to minimise the generation of dust.										
Impact Manage	ement Actions	Implementatio	n		Monitoring					
		Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of			
		person	implementation	implementation	person		compliance			
 of dust satisfac Removies soil string must be visible Excavation must be visible During situation dampinic cease accepta Where shelter erosive Where control of the Bielen roads of non-vee Straw 	all reasonable measures to minimise the generation t as a result of project development activities to the action of the ECO; val of vegetation must be avoided until such time as ripping is required and similarly exposed surfaces be re- vegetated or stabilised as soon as is cally possible; ration, handling and transport of erodible materials be avoided under high wind conditions or when a e dust plume is present; g high wind conditions, the ECO must evaluate the on and make recommendations as to whether dust- ing measures are adequate, or whether working will altogether until the wind speed drops to an table level; e possible, soil stockpiles must be located in red areas where they are not exposed to the e effects of the wind; e erosion of stockpiles becomes a problem, erosion of measures must be implemented at the discretion ECO; e speeds must not exceed 40 km/h along dust or 20 km/h when traversing unconsolidated and regetated areas; stabilisation must be applied at a rate of one 0 m ² and harrowed into the top 100 mm of top		Method statement; vehicle speed limit; dust suppression	Construction	ECO	Monthly	Site observation; dust Suppression register			

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.			

5.20. Blasting

Impact management outcome: Impact to the environment is minimised through a safe blasting practice.											
Impact Management Actions	Implementat	tion		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 activity taking place on Site. 		Relevant legislatic and regulation	nConstruction	ECO		Public complaints register; proof of registration of blasting contractor					

5.21. Noise

Impact Management outcome: Unnecessary noise is prevented by ensuring that noise from construction activities is mitigated.									
Impact Management Actions	Implementat	ion		Monitoring					
	Responsible Method of Ti		Timeframe for	ResponsibleFrequencyEvide		Evidence			
	person	implementation	implementation	person		of			
						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. 		Restriction of site hours to working hours	Construction	ECO	Monthly	Public Complaints Register			

- 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.			

5.22. Fire prevention

Impact management outcome: Prevention of uncontrollable fires.										
Impact Management Actions	Implementatio	Implementation			Monitoring					
	•		Timeframe for	Responsible	Frequency	Evidence of				
	person	implementation	implementation	person		compliance				
 Designate smoking areas where the fire hazard could be regarded as insignificant; Firefighting equipment must be available on all vehicles located on site; The local Fire Protection Agency (FPA) must be informed of construction activities; 		Emergency Response Action Plan; Method Statement	Construction	ECO	Monthly	Public complaints register; compliance to ERAP				
 Contact numbers for the FPA and emergency services must be communicated in environmental awareness training and displayed at a central location on site; Two-way swop of contact details between ECO and FPA. 										

5.23. Stockpiling and stockpile areas

Impact management outcome: Erosion and sedimentation as a result of stockpiling are reduced.											
Impact Management Actions	Implementatio	on		Monitoring							
Re		Method of	Timeframe for	Responsible	Frequency	Evidence of					
	person	implementation	implementation	person		compliance					
 All material that is excavated during the project development phase (either during piling (if required) or earthworks) must be stored appropriately on site in order to minimise impacts to watercourses, watercourses and water bodies; All stockpiled material must be maintained and kept clear of weeds and alien vegetation growth by undertaking regular weeding and control methods; Topsoil stockpiles must not exceed 2 m in height; During periods of strong winds and heavy rain, the stockpiles 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. 	Contractor	Method Statement	Construction	ECO	Monthly	Method Statement and site observations					

5.2.4. Finalising tower positions

Impact management outcome: No environmental degradation occurs as a result of the survey and pegging operations.										
Impact Management Actions	Implementatio	on		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 withir 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. 		Findings of the Specialist Studies	Pre-construction	ECO	Once off	Final pegging of tower positions				

5.2.5. Excavation and Installation of foundations

Impact management outcome: No environmental degradation occu	irs as a result	of excavation or ins	tallation of foundat	ions.		
Impact Management Actions	Implementatio	n		Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		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 		Method Statement and Engineering Drawings		ECO	5	Adherence to method statements

-	Hazardous substances spills from equipment must be			
	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.			

5.26. Assembly and erecting towers

Impact management outcome: No environmental degradation occurs as a result of assembly and erecting of towers							
Impact Management Actions	Implement	ation		Monitoring	Monitoring		
	Responsit	le Method of	Timeframe	Responsible	Frequency	Evidence of	
	person	implementation	for	person		compliance	
			implementation				
 Prior to erection, assembled towers and to must be stored on elevated surface (sugg blocks) to minimise damage to the vegetation; In sensitive areas, tower assembly must ta site or away from sensitive positions; The crane used for tower assembly must be a manner which minimises impact to the en The number of crane trips to each si minimised; Wheeled cranes must be utilised in pr tracked cranes; Consideration must be given to erecting helicopter or by hand where it is warrantee extent of environmental impact; Access to tower positions to be un accordance with access requirements in 	gest wooden underlying ke place off- e operated in vironment; te must be reference to g towers by d to limit the dertaken in	Method Statemen	t Construction	ECO	Weekly	Site observations	

	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 channelled 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.			

5.27. Stringing

	e: No environmental degradation occu		* *				
Impact Management Actions		Implementatio	<u>n</u>		Monitoring		-
		Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
		person	implementation	implementation	person		compliance
 for the siting of wind instances, the siting avoid Access restrict The winch and tens drip trays in order to spills and leaks; Refuelling of the wind undertaken in accorn substances; In the case of the de and distribution infr may be cut through only and no vehicle lines". Vegetation cl using chainsaws vegetation being cut wheeled mechanise Alternative methods environment must a by using a helicopte Where the stringing road or railway line, measures must be in reason, such acces 	viously disturbed areas must be used h and tensioner stations. In all other g of the winch and tensioner must ted areas and other sensitive areas; ioner station must be equipped with contain any fuel, hydraulic fuel or oil nch and tensioner stations must be dance with Section 5.17: Hazardous evelopment of overhead transmission astructure, a one metre "trace-line" the vegetation for stringing purposes access must be cleared along "trace- earing must be undertaken by hand, and hand-held implements, with t off at ground level. No tracked or d equipment must be used; of stringing which limit impact to the ways be considered e.g., by hand or r; operation crosses a public or private the necessary scaffolding/ protection nstalled to facilitate access. If, for any s has to be closed for any period(s) , the persons affected must be given	Contractor	Method Statement; adherence to exclusion zones	Construction	ECO	Weekly	Site observations

 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 parties where a minimum provided to the structures supporting 			
installed to prevent damage to the structures supporting certain high value agricultural areas such as vineyards, orchards, nurseries.			

5.28. Socio-economic

Impact management outcome: Socio-economic development is en	hanced.					
Impact Management Actions	Implementation			Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
 Develop and implement communication strategies to facilitate public participation; Develop and implement a collaborative and constructive approach to conflict resolution as part of the external stakeholder engagement process; Sustain continuous communication and liaison with neighbouring owners and residents Create work and training opportunities for local stakeholders; and 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. 	Contractor	Landowner Agreements; Issues and Complaints Register	Construction	ECO	Monthly	Landowner Agreement; Issues and Complaints Register

5.29. Temporary closure of site

pact Management Actions	Implementation			Monitoring		
	Responsible	Method of	Timeframe	Responsible	Frequency	Evidence of
	person	implementation	for	person		compliance
			implementation			
- Bunds must be emptied (where applicable) and need to be	Contractor	Method Statement	Construction –	ECO	Monthly-	Method
undertaken in accordance with the impact management			when applicable		when	Statement
actions included in sections 5.17: management of					applicable	
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. 						

5.30. Landscaping and rehabilitation

t Management Actions	Implementatio	on		Monitoring		
	Responsible person	implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance
All areas disturbed by construction activities must be subject to landscaping and rehabilitation; All spoil and waste must be disposed to a registered waste site and certificates of disposal provided; All slopes must be assessed for contouring, and to contour only when the need is identified in accordance with the Conservation of Agricultural Resources Act, No 43 of 1983 All slopes must be assessed for terracing, and to terrace only when the need is identified in accordance with the Conservation of Agricultural Resources Act, No 43 of 1983; Berms that have been created must have a slope of 1:4 and be replanted with indigenous species and grasses that approximates the original condition; Where new access roads have crossed cultivated farmlands, that lands must be rehabilitated by ripping which must be agreed to by the holder of the EA and the landowners; Rehabilitation of tower sites and access roads outside of farmland; Indigenous species must be used for with species and/grasses to where it compliments or approximates the original condition;	Contractor	Method Statements; erosion protection; alien eradication plan	Construction	ECO	Monthly	Adequately revegetate wo areas; no erosion or invasive pla species

			1		
-	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:				
-	Annual and perennial plants are chosen;				
-	Pioneer species are included;				
-	Species chosen must be indigenous to the area with the				
	seeds used coming from the area;				
-	Root systems must have a binding effect on the soil;				
-	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

SITE SPECIFIC INFORMATION AND DECLARATION

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

Details of the applicant: Name of applicant:

Name of the Applicant:	ESKOM Holdings SOC Limited				
RSA Identity/ Passport Number:					
Name of contact person for applicant (if other):	Granny Mokaleng				
RSA Identity/ Passport Number:	8211190510086				
Responsible position, e.g. Director, CEO, etc.:	Environmental Project Manager				
Company/ Trading name (if any):	ESKOM				
Company Registration Number:	2002/015527/30				
BBBEE status:	Level 8				
Physical address:	PO Box 1319 Rustenburg				
Postal address:	PO Box 1319 Rustenburg				
Postal code:	0300 Cell: 079 962 4334				
Telephone:	012 725 2142 Fax:				
E-mail:	MokaleMG@eskom.co.za				

Details and expertise of the EAP: Name of applicant:

Company of	Humba Environmental Consultancy							
Environmental								
Assessment Practitioner:								
B-BBEE	Contribution level	1	Percen	tage	135			
	(indicate 1 to 8 or non-		Procure	ement				
	compliant)		recogn	ition				
EAP name:	Tinashe Maramba							
EAP Qualifications:	BESC Hydrology and Water Resources							
Professional	SAIOSH							
affiliation/registration:								
Physical address:	43 Montrose Street, Birchwood Court Vorna Valley, Midrand							
Postal address:	43 Montrose Street, Birchwood Court Vorna Valley, Midrand							
Postal code:	1685		Cell:	072 309 0)502			
Telephone:	011 655 7301		Fax:	011 655 7	701			
E-mail:	tinashe@humba.org							

Expertise of the EAP (Curriculum Vitae included): YES

Project name: ARARAT-BAFOKENG 88KV POWERLINE PROJECT

Description of the project: **PROPOSED CONSTRUCTION OF AN 88KV POWERLINE FROM BETWEEN ARARAT MAIN TRANSMISSION SUBSTATION AND BAFOKENG 7 SUBSTATION**

Project location:

Farm Name	Portion Name	SG Code	Area (sqm)	Area (ha)	Coordinates
Kookfontein 265 JQ	Portion 2	T0JQ0000000026 500002	6770602, 90	677,06	25°33'41.2"S 27°11'18.4"E
Doornspruit 106 JQ	Remaining extent	T0JQ00000000010 600000	2570949 0,89	2570,9 5	25°29'47.0"S 27°11'19.5"E

7.16 Preliminary technical specification of the overhead transmission and distribution:

Unknown at this stage:

Length Tower parameters Number and types of towers Tower spacing (mean and maximum) Tower height (lowest, mean and height) Conductor attachment height (mean) Minimum ground clearance

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: 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 shall identify features both within the planned working area and any known sensitive features in the surrounding landscape. The overhead transmission and distribution profile shall 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 shall be used.

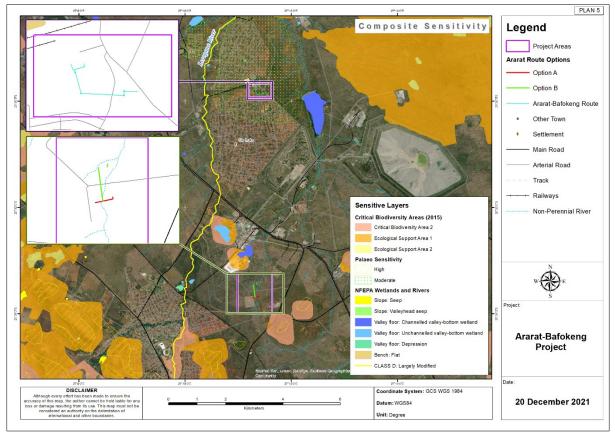


Figure 1: Environmental sensitivity map in the context of the project

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 days 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:

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

Should the EA be transferred to a new holder, Part B: Section 2 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 Part B: Section 2 not be submitted. Once approved, Part B: Section 2 forms part of the EMPr for the development and the EMPr becomes legally binding to the new EA holder.

PART C

SITE SPECIFIC ENVIRONMENTAL ATTRIBUTES

If any specific environmental sensitivities/attributes are present on the site which require more specific impact management outcomes and impact management actions, not included in the pre-approved generic EMPr template, to manage impacts, those impact management outcomes and 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 pre-approved 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.

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.