APPENDIX 2 GENERIC ENVIRONMENTAL MANAGEMENT PROGRAMME (EMPr) FOR THE DEVELOPMENT AND EXPANSION FOR OVERHEAD ELECTRICITY TRANSMISSION AND DISTRIBUTION INFRASTRUCTURE

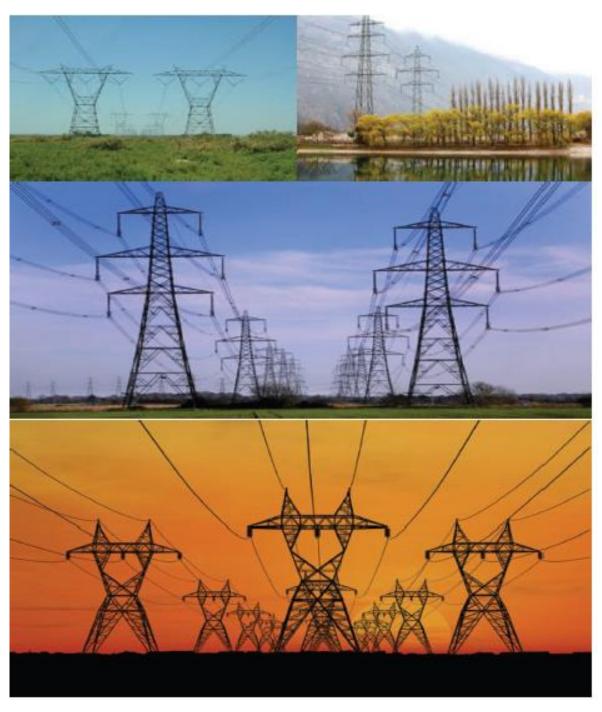




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INTRODUCTION

1 Background

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

2 Purpose

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

3 Objective

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

4 Scope

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

5 Structure of this document

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

Part	Section	Heading	Content
A		Provides general guidanceand information and is not legally binding	Definitions, acronyms, roles & responsibilities and documentation and reporting.
В	1	Pre-approved generic EMPr template	Contains generally accepted impact management outcomes and impact management actions required for the avoidance, management and mitigation of impacts and risks associated with the 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 impact management 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 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
Part	Section	Heading	Content
C	endix 1	Site specific sensitivities/ attributes	If any specific environmental sensitivities/attributes are present on the site which require site specific impact management outcomes and impact management actions, not included in the pre-approved generic EMPr, to manage impacts, these specific impact management outcomes and impact management actions must be included in this section. These specific environmental attributes must be referenced spatially and impact management outcomes and impact management actions must be provided. These specific impact management outcomes and impact management actions must be presented in the format of the pre- approved EMPr template (Part B: section 1) This section will not be required should the site contain no specific environmental sensitivities orattributes. However, if Part C is applicable to thesite, it is required to be submitted together withthe BAR or EIAR, for consideration of, and decision on, the application for EA. The information in this section must be prepared byan EAP and must contain his/her name and expertise including a curriculum vitae. Once approved, Part C forms part of the EMPr for thesite and is legally binding. This section applies only to additional impact management outcomes and impactmanagement actions that are necessary for the avoidance, management and mitigation ofimpacts and risks associated with the specific development or expansion and which are not already included in Part B: section 1.
Yphe	aluix 1		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
 - a 'responsible person',
 - a method for implementation,
 - a timeframe for implementation
- For monitoring
 - a responsible person
 - frequency
 - evidence of compliance.

The completed template must be signed and dated by the holder of the EA prior to commencement of the activity. The method statements prepared and agreed to by the holder of the EA must be appended to the template as 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

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

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

<u>Sub-section 2</u> 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 overlaidwith the preliminary infrastructure layout using the national web based environmental screening tool, when available for compulsory use at: https://screening.environment.gov.za/screeningtool. The sensitivity map shall identify the nature of each sensitive feature e.g. threatened plant species, archaeological site, etc. Sensitivity maps shall identify features both within the planned working area and any known sensitive features and within 50 m from the development footprint.

<u>Sub-section 3</u> is the declaration that the applicant (s)/proponent (s) or holder of the EA in the case of a change of ownership must complete which confirms that the applicant/EA holder will comply with the pre-approved 'generic EMPr' template in <u>Section 1</u> and understands that the impact management outcomes and impact management 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 Hazardous Substances Act, 1973 (Act No. 15of 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 as a minimum 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 anyliquid 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 oris 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;

"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(s)	Role and Responsibilities
Developer's Project Manager (DPM)	Role The Project Developer is accountable for ensuring compliance with the EMPr and any conditions of approval from the competent authority (CA). Where required, an environmental control officer (ECO) must be contracted by the Project Developer to objectively monitor the implementation of the EMPr according to relevant environmental legislation, and the conditions of the environmental authorisation (EA). The Project Developer is further responsible for providing and giving mandate to enable the ECO to perform responsibilities, and he must ensure that the ECO is integrated as part of the project team while remaining independent. 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 implementation.

Developer Site Supervisor (DSS)

<u>Role</u>

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 specified by the EA, report to the relevant CA as and when required.

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 concerns;
- Compile a regular 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 Officer (cEO);
- Checking the cEO's record of 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 complaints 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 the Senior Site Supervisor, who has the power to ensure this matter is addressed. Should no action or insufficient action be taken, the ECO may report this matter to the authorities as non-compliance;
- Maintenance, update and review of the EMPr;
- Communication of all modifications to the EMPr to the relevant stakeholders.

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 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 contractor; 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 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.

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 on-site 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.

contractor Environmental Officer(cEO) Role

Each Contractor affected by the EMPr should appoint a cEO, who is responsible for the on-site implementation of the EMPr (or relevant sections of the EMPr). The Contractor's representative can be the site agent; site engineer; a dedicated environmental officer; or an independent consultant. The Contractor must ensure that the Contractor's Representative is suitably qualified to perform the necessary tasks and is appointed at a level such that she/he can interact effectively with other site Contractors, labourers, the Environmental Control Officer and the public. As a minimum the cEO shall meet the following criteria:

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;
- Assist the ECO with the preparing of the monthly report; and
- Where more than one Contractor is undertaking work on site, each company appointed as a Contractor will appoint a cEO representing that company.

4 ENVIRONMENTAL DOCUMENTATION REPORTING AND COMPLIANCE

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

4.1 Document control/Filing system

The holder of the EA is solely responsible for the upkeep and management of the EMPr file. As a minimum, all documentation detailed below will be stored in the EMPr file. A hard copyof 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 duplicatefile 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 ofsite 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 insuch 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 checklistto 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 whetherthe contractor's proposal is in accordance with the EMPr.

The method statement must cover applicable details with regard to:

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

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

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

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

4.6 Environmental Incident Log (Diary)

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

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

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

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

The Environmental Incident Log will be captured in the EAR.

4.7 Non-compliance

A non-compliance notice will be issued to the responsible contractor by the ECOs via theDSS 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 non-compliance with the agreed procedures of the EMPr is a transgression of the various statutes and laws that define the manner by which the environment is managed. Failure to redress the cause shall be reported to the relevant CA for them to deal with the transgression, as it deems fit. The contractor is deemed not to have complied with the EMPr if, inter alia, There is a deviation from the environmental conditions, impact management outcomes and impact management actions activities, as approved in generic and site specific EMPr as relevant as set out in the EMPr, which deviation has, or may cause, an environmental impact.

4.8 Corrective action records

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

4.9 Photographic record

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

The Contractor shall:

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

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

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

4.10 Complaints register

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

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

4.11 Claims for damages

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

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

4.12 Interactions with affected parties

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

The ECOs shall:

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

4.13 Environmental audits

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

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

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

4.14 Final environmental audits

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

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

5 IMPACT MANAGEMENT OUTCOMES AND IMPACT MANAGEMENT ACTIONS

This section provides a pre-approved generic EMPr template with aspects that are common to the development of overhead electricity transmission and distribution infrastructure. There is a list of aspects identified for the development or expansion of overhead electricity transmission and distribution infrastructure, and for each aspect a set of prescribed impact management outcomes and associated impact management actions have been identified.

Holders of EAs are responsible to ensure the implementation of these outcomes and actions for all projects as a minimum requirement, in order to mitigate the impact of such aspects identified for the development or expansion of overhead electricity transmission and distribution infrastructure.

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

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

5.1 Environmental awareness training

Impact management outcome: All onsite staff are aware and understands the individual responsibilities in terms of this EMPr.

Implementation Monitoring								
	Implementati	IUII	riointornig					
Impact Management Actions	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance		
 All staff must receive environmental awareness training prior to commencement of the activities; 	dEO and/or cEO	Training workshop/	Prior to commencem	ECO	Prior to commenc	Training Register		
 The Contractor must allow for sufficient sessions to train all personnel with no more than 20 personnel attending each 		induction	ent		ement Monthly	-		
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: a) Safety notifications; and b) No littering. Environmental awareness training must include as a minimum the following: a) Description of significant environmental impacts, actual or potential, related to their work activities;		Placement of educational posters				Checklist		
 b) Mitigation measures to be implemented when carrying out specific activities; c) Emergency preparedness and response procedures; 								
d) Emergency procedures; e) Procedures to be followed when working near orwithin 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 and the decrease of an area and (as unabbanded).	
 Educate workers on the dangers of open and/or unattended fires; 	
A staff attendance register of all staff to have	
receivedenvironmental awareness training must be available.	
 Course material must be available and presented in appropriate languages that all staff can understand. 	

5.2 Site Establishment development

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

Impact Management Actions	Implementa	Implementation			Monitoring		
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance	
 A method statement must be provided by the contractor prior to any onsite activity that includes the layout of the construction camp in the form of a plan showing the location of key infrastructure and services (where applicable), including but not limited to offices, overnight vehicle parking areas,p stores, the workshop, stockpile and lay down areas, hazardous materials storage areas (including fuels), the batching plant (if one is located at the construction camp), designated access routes, equipment cleaning areas and the placement of staff accommodation, cooking and ablution facilities, waste and wastewater management; Location of camps must be within approved area to ensure that the site does not impact on sensitive areas identified in the environmental assessment or site walk through; Sites must be located where possible on previously disturbed areas; The camp must be fenced in accordance with Section 5.5: Fencing and gate installation; and The use of existing accommodation for contractor staff, where possible, is encouraged. 		Site Establishment Method Statement	Prior to Site establishment	ECO and/or dEO	Prior to Site establishme nt	Site Establishmen t Method Statement	

5.3 Access restricted areas

Impact Management Actions	Implementation			Monitoring		
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of 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 Unauthorised access and development related activity inside access restricted areas is prohibited. 	DPM, ECO, dEO and cEO	Drafting of no-go map Erection of barriers and signage		DPM, ECO, dEO and cEO	Monthly	Monthly reports

5.4 Access roads

Impact Management Actions	Implementa	tion		Monitoring		
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of 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 	DPM and Contractor	Signed formal agreement Site Access Map Photographic evidence	Prior to commence ment	ECO	Prior to commen cement	Signed formal agreement

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

5.5 Fencing and Gate installation

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

Impact Management Actions	Implementa	tion		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 the development activities; Fencing must be erected around the camp, batching plants, hazardous storage areas, and all designated access restricted areas, where applicable; Any temporary fencing to restrict the movement of lifestock must only be erected with the permission of the land owner. 	Contractor and cEO	Signed formal agreement Photographic Record	On-going for duration of project	ECO and/or	On-going for duration of project	Monthly reports

bearing the SABS mark;			
 The use of razor wire as fencing must be avoided; 			
 Fenced areas with gate access must remain locked after 			
hours, during weekends and on holidays if staff is away			
from site. Site security will be required at all times;			
 On completion of the development phase all temporary 			
fences are to be removed;			
The contractor must ensure that all fence uprights are			
- appropriately removed, ensuring that no uprights are			
cut at ground level but rather removed completely.			

5.6 Water Supply Management

Impact management outcome: Undertake responsible water usage.								
Impact Management Actions	Implementa	tion		Monitoring				
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of		
	person	implementation	implementation	person		compliance		
 All abstraction points or bore holes must be registered with the DWS and suitable water meters installed to ensure that the abstracted volumes are measured on a daily basis; The Contractor must ensure the following: a. The vehicle abstracting water from a river does not enter or cross it and does not operate from within the river; b. No damage occurs to the river bed or banks and that the abstraction of water does not entail stream diversion activities; and c. All reasonable measures to limit pollution or sedimentation of the downstream watercourse are implemented. 	DPM and Contractor	Registere d Water User Water Use Register	Prior to water use On-going for duration of project	ECO, dEO and cEO	Prior to commenc ement and for duration of project	Monthly reports Water Use Register		
Ensure water conservation is being practiced by:								
a. Minimising water use during cleaning of equipment;b. Undertaking regular audits of water systems; and								
C. Including a discussion on water usage and conservation during environmental awareness training.								
d. The use of grey water is encouraged.								

5.7 Storm and wastewater management

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

Impact Management Actions	Implementa	tion		Monitoring		
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of 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 offsite, at a location approved by the project manager; 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; 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. 		Appropriate Method Statement Appropriate absorbent material on site	Prior to water use	ECO and/or cEO	On-going for duration of project	Monthly reports

5.8 Solid and hazardous waste management

Impact management outcome: Wastes are appropriately stored, handled and safely disposed of at a recognised waste facility.								
Impact Management Actions	Implementa	Implementation			Monitoring			
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance		
 All measures regarding waste management must be undertaken using an integrated waste management approach; Sufficient, covered waste collection bins (scavenger and weatherproof) must be provided; A suitably positioned and clearly demarcated waste collection site must be identified and provided; The waste collection site must be maintained in a clean and orderly manner; Waste must be segregated into separate bins and clearly marked for each waste type for recycling and safe disposal; Staff must be trained in waste segregation; Bins must be emptied regularly; General waste produced onsite must be disposed of at registered waste disposal sites/ recycling company; Hazardous waste must be disposed of at a registered waste disposal site; Certificates of safe disposal for general, hazardous and recycled waste must be maintained. 	Contractor and cEO	Waste Management Method Statement Waste Disposal Slips Waste Register	Prior to commencement On-going for duration of project	ECO and/or dEO	Duration of project	Monthly reports		

5.9 Protection of watercourses and estuaries

Impact Management Actions	Implementa	tion		Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Fraguency	Evidence of
	-	implementation	implementation	-	rrequericy	compliance
 All watercourses must be protected from direct or indirect spills of pollutants such as solid waste, sewage, cement, oils, fuels, chemicals, aggregate tailings, wash and contaminated water or organic material resulting from the Contractor's activities; In the event of a spill, prompt action must be taken to clear the polluted or affected areas; Where possible, no development equipment must traverse any seasonal or permanent wetland No return flow into the estuaries must be allowed and no disturbance of the Estuarine functional Zone should occur; 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 favored 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: a) Water levels during the period of construction; No altering of the bed, banks, course or characteristics of a watercourse 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 		Implementation Drafting of no-go area map Environmental Incident Method Statement Working within watercourse method statement		ECO	On-going for duration of project	Monthly reports

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.		

				infrastructure.		
Impact Management Actions	Implementa	tion		Monitoring		
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence o
 General: Indigenous vegetation which does not interfere with the development must be left undisturbed; Protected or endangered species may occur on or near the development site. Special care should be taken not to damage such species; Search, rescue and replanting of all protected and endangered species likely to be damaged during project development must be identified by the relevant specialist and completed prior to any development or clearing; Permits for removal must be obtained from the relevant CA prior to the cutting or clearing of the affected species, and they must be filed; The Environmental Audit Report must confirm that all identified species have been rescued and replanted and that the location of replanting is compliant with conditions of approvals; Trees felled due to construction must be documented and form part of the Environmental Audit Report; Rivers and watercourses must be kept clear of felled trees, vegetation cuttings and debris; 	DPM and Contractor	Vegetation Clearance method statement Search & Rescue Pesticide use register (if applicable)	Prior to commencement	ECO and	Prior to the clearance of vegetation	•

	herbicides on a commercial basis and commercial			
	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.			
_	Alien invasive vegetation must be removed and disposed			
	of at a licensed waste management facility.			

5.11 Protection of fauna

Impact management outcome: Disturbance to fauna is minimised.						
Impact Management Actions	Implementa	tion		Monitoring		
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of 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; Special recommendations of the avian specialist must be adhered to at all times to prevent unnecessary disturbance of birds; 	Contractor and cEO	Apply for necessary permits (if required) Environmental Toobox talks Adhere to any speciallist recomendations	On-going for duration of project	ECO and dEO	On-going for duration of project	Monthly report Incident Register
 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/or relocated without appropriate authorisations/permits. 						

5.12 Protection of heritage resouces

Impact management outcome: Impact to heritage resources is mini	mised.					
Impact Management Actions	Implementa	tion	Monitoring			
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance
 Identify, demarcate and prevent impact to all known sensitive heritage features on site in accordance with the No- Go procedure in Section 5.3: Access restricted areas; Carry out general monitoring of excavations for potential fossils, artefacts and material of heritage importance; All work must cease immediately, if any human remains and/or other archaeological, palaeontological and historical material are uncovered. Such material, if exposed, must be reported to the nearest museum, archaeologist/ palaeontologist (or the South African Police Services), so that a systematic and professional investigation can be undertaken. Sufficient time must be allowed to remove/collect such material before development recommences. 	Contractor and cEO Relevant heritage specialist	Demarcate nogo areas Chance find protocol	Prior to commencement and for duration of project	DPM, ECO and/or dEO	On-going for duration of project	Monthly report Incident Register

5.13 Safety of the public

Impact management outcome: All precautions are taken to minimi	se the risk of inju	ry, harm or complain	nts.			
Impact Management Actions	Implementat	ion		Monitoring		
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of 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 all incidents or complaints involving the public are logged. 	Contractor and cEO	i .	Duration of project	ECO and/or dEO	On-going for duration of project	Incident Register Monthly report

5.14 Sanitation

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

Impact Management Actions	Implementa	tion	Monitoring			
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance
 Mobile chemical toilets are installed onsite if no other ablution facilities are available; The use of ablution facilities and or mobile toilets must be used at all times and no indiscriminate use of the veld for the purposes of ablutions must be permitted under any circumstances Where mobile chemical toilets are required, the following must be ensured: 		Environmental Toobox talks Appropriately placed mobile toilets	On-going for duration of project	ECO and dEO	On-going for duration of project	Monthly report Waste Water Register
a. Toilets are located no closer than 100 m to any		Waste Disposal				

	watercourse or water body;	Slips		
l .	• • • • • • • • • • • • • • • • • • • •	Silps		
D.	Toilets are secured to the ground to prevent them			
	from toppling due to wind or any other cause;	Waste Water		
c.	No spillage occurs when the toilets are cleaned or	Register		
	emptied and the contents are managed in	register		
	accordance with the EMPr;			
d.	Toilets have an external closing mechanism and are			
	closed and secured from the outside when not in			
	use to prevent toilet paper from being blown out;			
	Toilets are emptied before long weekends and			
<u> </u>				
	workers holidays, and must be locked after working			
	hours;			
f.	Toilets are serviced regularly and the ECO must			
	inspect toilets to ensure compliance to health			
	standards;			
- A co	opy of the waste disposal certificates must be			
main	ntained.			

5.15 Prevention of disease

Impact Management outcome: All necessary precautions linked to	Impact Management outcome: All necessary precautions linked to the spread of disease are taken.										
Impact Management Actions	Implementa	tion	Monitoring								
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance					
 Undertake environmentally-friendly pest control in the camp area; Ensure that the workforce is sensitised to the effects of sexually transmitted diseases, especially HIV AIDS; The Contractor must ensure that information posters on 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 		Appoint First Aiders Conduct relevant H&S toolbox talks Include requirements in Health & Safety Plan/Programme		DPM and designated safety officer	On-going for duration of project	Toolbox talk register Monthly Reports					

	at central points;			
_	Medical support must be made available;			
_	Provide access to Voluntary HIV Testing and Counselling			
	Services.			

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	Implementa	tion		Monitoring					
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance			
 Compile an Emergency Response Action Plan (ERAP) prior to the commencement of the proposed project; The Emergency Plan must deal with accidents, potential spillages and fires in line with relevant legislation; 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). 	Contractor and cEO	Draft and Implement ERAP	Prior to commencement	DPM and ECO	Prior to commence ment On-going for duration of project	Approved ERAP Incident Register Monthly report			

5.17 Hazardous substances

Impact management outcome: Safe storage, handling, use and disposa	l of hazardous	substances.				
Impact Management Actions	Implementa	tion		Monitoring		
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance
 The use and storage of hazardous substances to be minimised and non-hazardous and non-toxic alternatives substituted where possible; All hazardous substances must be stored in suitable containers as defined in the Method Statement; Containers must be clearly marked to indicate contents, quantities and safety requirements; All storage areas must be bunded. The bunded area must be of sufficient capacity to contain a spill / leak from the stored containers; Bunded areas to be suitably lined with a SABS approved liner; An Alphabetical Hazardous Chemical Substance (HCS) control sheet must be drawn up and kept up to date on a continuous basis; All hazardous chemicals that will be used on site must have Material Safety Data Sheets (MSDS); All employees working with HCS must be trained in the safe use of the substance and according to the safety data sheet; Employees handling hazardous substances / materials must be aware of the potential impacts and follow appropriate safety measures. Appropriate personal protective equipment must be made available; The Contractor must ensure that diesel and other liquid fuel, oil and hydraulic fluid is stored in appropriate storage tanks 	-			•	On-going for duration of project	
or in bowsers; - The tanks/ bowsers must be situated on a smooth impermeable surface (concrete) with a permanent bund. The impermeable lining must extend to the crest of the bund and the volume inside the bund must be 130% of the total						

capacity of all the storage tanks/ bowsers (110% statutory			
requirement plus an allowance for rainfall);			
- The floor of the bund must be sloped, draining to an oil			
separator;			
 Provision must be made for refueling at the storage area by 			
protecting the soil with an impermeable groundcover. Where			
dispensing equipment is used, a drip tray must be used to			
ensure small spills are contained;			
- All empty externally dirty drums must be stored on a drip			
tray or within a bunded area;			
 No unauthorised access into the hazardous substances 			
storage areas must be permitted;			
- No smoking must be allowed within the vicinity of the			
hazardous storage areas;			
 Adequate fire-fighting equipment must be made available at 			
all hazardous storage areas;			
 Where refueling away from the dedicated refueling station is 			
required, a mobile refueling unit must be used. Appropriate			
ground protection such as drip trays must be used;			
- An appropriately sized spill kit kept onsite relevant to the			
scale of the activity/s involving the use of hazardous			
substance must be available at all times;			
 The responsible operator must have the required training to 			
make use of the spill kit in emergency situations;			
 An appropriate number of spill kits must be available and 			
must be located in all areas where activities are being			
undertaken;			
 In the event of a spill, contaminated soil must be collected 			
in containers and stored in a central location and disposed of			
according to the National Environmental Management:			
Waste Act 59 of 2008. Refer to Section 5.7 for procedures			
concerning storm and waste water management and 5.8 for			
solid and hazardous waste management.			

5.18 Workshop, equipment maintenance and storage

Impact Management Actions	Implementa	tion		Monitoring			
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance	
and aguinment mought bles place in the weatraken areas.	Contractor and cEO	Site Inspections	On-going for duration of project	ECO and/or dEO	On-going for duration of project	Monthly report	

5.19 Batching plants

Impact management outcome: Minimise spillages and contamination of soil, surface water and groundwater. **Implementation** Monitoring **Impact Management Actions** Responsible | Method of Timeframe for Responsible Frequency Evidence of implementation implementation person person compliance Concrete mixing must be carried out on an impermeable Contractor Dedicated batch ECO and/or On-going Monthly On-going for surface; and cEO plant area duration of dEO reports Batching plants areas must be fitted with a containment project duration of project facility for the collection of cement laden water. Dedicated Dirty water from the batching plant must be contained to washout facility prevent soil and groundwater contamination Bagged cement must be stored in an appropriate facility and at least 10 m away from any water courses, gullies Disposal of unused concrete and drains; at licenced A washout facility must be provided for washing of disposal facility concrete associated equipment. Water used for washing must be restricted; Hardened concrete from the washout facility or concrete mixer can either be reused or disposed of at an appropriate licenced disposal facility; Empty cement bags must be secured with adequate binding material if these will be temporarily stored on site: Sand and aggregates containing cement must be kept damp to prevent the generation of dust (Refer to Section 5.20: Dust emissions) 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 plants in accordance with Section 5.5: Fencing and gate installation

5.20 Dust emissions

Impact Management Actions	Implementa	tion		Monitoring			
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance	
 Take all reasonable measures to minimise the generation of dust as a result of project development activities to the satisfaction of the ECO; Removal of vegetation must be avoided until such time as soil stripping is required and similarly exposed surfaces must be re vegetated or stabilised as soon as is practically possible Excavation, handling and transport of erodible materials must be avoided under high wind conditions or when a visible dust plume is present; During high wind conditions, the ECO must evaluate the situation and make recommendations as to whether dust- damping measures are adequate, or whether working will cease altogether until the wind speed drops to an acceptable level; Where possible, soil stockpiles must be located in sheltered areas where they are not exposed to the erosive effects of the wind; Where erosion of stockpiles becomes a problem, erosion control measures must be implemented at the discretion of the ECO; Vehicle speeds must not exceed 40 km/h along dust roads or 20 km/h when traversing unconsolidated and non-vegetated areas; Straw stabilisation must be applied at a rate of one bale/10 m² and harrowed into the top 100 mm of top material, for all completed earthworks; For significant areas of excavation or exposed ground, dust suppression measures must be used to minimise the spread of dust. 	Contractor and cEO	Minimize clearance of vegetation on site Implement appropriate, cost-effective dust mitigation measures Regular toolbox talks	On-going for duration of project	ECO and dEO	On-going for duration of project	Monthly reports Approved dust mitigation MS	

5.21 Blasting

Impact management outcome: Impact to the environment is minimised through a safe blasting practice.									
Impact Management Actions	Implementa	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. 	and cEO	Draft and Implement Blasting MS Written confirmation	,	DPM, ECO and/or dEO	In conjunction with any blasting activities	Blasting register Monthly report			

5.22 Noise

Impact Management Actions	Implementa	tion		Monitoring		
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence 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. 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. 	Contractor and cEO	Work within reasonable working hours Ensure all plant, macheinery and vehicles are in good working order Identify dedicated stockpile areas	Duration of project	DPM, ECO and/or dEO	Duration of project	Complaints register Monthly report

5.23 Fire prevention

Impact management outcome: Prevention of uncontrollable	fires.							
Impact Management Actions	Implementation	Implementation			Monitoring			
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of 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; 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. 	Contractor and cEO	Designated smoking areas Appropriate firefighting equipment available on site Emergency contact list located a specific area Draft and Implement ERAP	Prior to commencement	ECO and/or dEO	Duration of project	Monthly report		

5.24 Stockpiling and stockpile areas

Impact management outcome: Reduce erosion and sedimentation	as a result of st	ockpiling.						
Impact Management Actions	Implementa	tion		Monitoring	Monitoring			
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of 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. 	and cEO	Identify dedicated stockpile areas Draft and Implement dust mitigation MS Inclusion of stockpile requirements in site establishment MS	Duration of project	ECO and/or dEO	Duration of project	Monthly report		

5.25 Finalising tower positions

Impact Management Actions	Implementation			Monitoring			
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance	
 No vegetation clearing must occur during survey and pegging operations; No new access roads must be developed to facilitate access for survey and pegging purposes; Project manager, botanical specialist and contractor to agree on final tower positions based on survey within assessed and approved areas; The surveyor is to demarcate (peg) access roads/tracks in consultation with ECO. No deviations will be allowed without the prior written consent from the ECO. 	Botanical Specialist	Identify dedicated stockpile areas Draft and Implement Rehabilitation Plan/MS	On-going for duration of project	ECO and/or dEO	On-going for duration of project	Monthly report	

5.26 Excavation and Installation of foundations

Impact management outcome: No environmental degradation occurs as a result of excavation or installation of foundations.

Impact Management Actions	Implementa	tion		Monitoring		
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance
	Contractor and cEO	Draft and Implement Hazardous Substance MS	On-going for duration of project	ECO and/or dEO	On-going for duration of project	Monthly report
 Spoil can however be used for landscaping purposes and must be covered with a layer of 150 mm topsoil for rehabilitation purposes; 		Waste Register				Waste Register
 Management of equipment for excavation purposes must be undertaken in accordance with Section 5.18: Workshop equipment maintenance and storage; and 						
 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 						

5.27 Assembly and erecting towers

Impact management outcome: No environmental degradation occurs during the installation of foundation, cable trenching and drainage system. **Impact Management Actions Implementation Monitoring** Responsible Method of Timeframe for Frequency Evidence of Responsible implementation implementation person person compliance Prior to erection, assembled towers and tower sections Contractor Draft and During Tower ECO and/or Monthly During must be stored on elevated surface (suggest wooden and cFO **Implement** Erection dFO Tower Report blocks) to minimise damage to the underlying Vegetation Erection Managment MS vegetation; - In sensitive areas, tower assembly must take place offsite or away from sensitive positions; Identify The crane used for tower assembly must be operated in appropriate assembly areas a manner which minimises impact to the environment; in sensitive - The number of crane trips to each site must be areas minimised; Identify Wheeled cranes must be utilised in preference to tracked dedicated cranes; stockpile areas Consideration must be given to erecting towers by helicopter or by hand where it is warranted to limit the extent of environmental impact; - Access to tower positions to be undertaken in accordance with access requirements in specified in Section 8.4: Access Roads; Vegetation clearance to be undertaken in accordance with general vegetation clearance requirements specified in Section 8.10: Vegetation clearing; No levelling at tower sites must be permitted unless approved by the Development Project Manager or Developer Site Supervisor: Topsoil must be removed separately from subsoil material and stored for later use during rehabilitation of such tower sites; - Topsoil must be stored in heaps not higher than 1m to prevent destruction of the seed bank within the topsoil;

Excavated slopes must be no greater that 1:3, but where				l
this is unavoidable, appropriate measures must be			,	l
undertaken to stabilise the slopes;				l
 Fly rock from blasting activity must be minimised and 				l
any pieces greater than 150 mm falling beyond the				l
Working Area, must be collected and removed;				l
 Only existing disturbed areas are utilised as spoil areas; 				l
– Drainage is provided to control groundwater exit				l
gradient with the spill areas such that migration of fines				l
is kept to a minimum;			,	l
 Surface water runoff is appropriately channeled through 			,	l
or around spoil areas;			,	l
During backfilling operations, care must be taken not to			,	l
dump the topsoil at the bottom of the foundation and				l
then put spoil on top of that;			,	l
The surface of the spoil is appropriately rehabilitated in			,	l
accordance with the requirements specified in Section				l
5.29: Landscaping and rehabilitation;				l
The retained topsoil must be spread evenly over areas			,	l
to be rehabilitated and suitably compacted to effect				l
revegetation of such areas to prevent erosion as soon as				l
construction activities on the site is complete. Spreading				l
of topsoil must not be undertaken at the beginning of				l
the dry season.				l

5.28 Stringing

Impact Management Actions	Implementat	ion		Monitoring	Monitoring			
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance		
 Where possible, previously disturbed areas must be used for the siting of winch and tensioner stations. In all other instances, the siting of the winch and tensioner must avoid Access restricted areas and other sensitive areas; The winch and tensioner station must be equipped with drip trays in order to contain any fuel, hydraulic fuel or oil spills and leaks; Refueling of the winch and tensioner stations must be undertaken in accordance with Section 5.17: Hazardous substances; In the case of the development of overhead transmission and distribution infrastructure, a one metre "trace-line" may be cut through the vegetation for stringing purposes only and no vehicle access must be cleared along "trace-lines". Vegetation clearing must be undertaken by hand, using chainsaws and hand held implements, with vegetation being cut off at ground level. No tracked or wheeled mechanised equipment must be used; Alternative methods of stringing which limit impact to the environment must always be considered e.g. by hand or by using a helicopter; Where the stringing operation crosses a public or private road or railway line, the necessary scaffolding/protection measures must be installed to facilitate access. If, for any reason, such access has to be closed for any period(s) during development, the persons affected must be given reasonable notice, in writing; No services (electrical distribution lines, telephone lines, 	Contractor and cEO	·	During stringing operations		During stringing operations	Monthly report Incident Register		

		I	1	
roads, railways lines, pipelines fences etc.) must be				
damaged because of stringing operations. Where				
disruption to services is unavoidable, persons affected				
must be given reasonable notice, in writing;				
- Where stringing operations cross cultivated land,				
damage to crops is restricted to the minimum required				
to conduct stringing operations, and reasonable notice				
(10 work days minimum), in writing, must be provided				
to the landowner;				
– Necessary scaffolding protection measures must be				
installed to prevent damage to the structures supporting				
certain high value agricultural areas such as vineyards,				
orchards, nurseries				

5.29 Socio-economic

Impact management outcome: enhanced socio-economic develo	pment.					
Impact Management Actions	Implementa	ation		Monitoring		
	Responsibl e person	Method of implementation	Timeframe for implementation	Responsible Frequency person	Evidence of 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 neighboring 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. 	dEO and		duration of	ECO and/or On-going for duration of project	Monthly report Complaints register	

5.30 Temporary closure of site

Impact Management Actions	Implementa	tion		Monitoring		
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance
 Bunds must be emptied (where applicable) and need to be undertaken in accordance with the impact management actions included in sections 5.17: 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; Prip trays must have been emptied and secured. 	Contractor and cEO	Site Closure inspection and checklist	During temporary site closure	ECO and/or dEO	During temporary site closure	Monthly report Site Closure inspection and checklis

5.31 Landscaping and rehabilitation

Impact management outcome: Areas disturbed during the deve	lopment phas	e are returned to	a state that appro	oximates the	original cond	ition.
Impact Management Actions	Implementat	tion		Monitoring		
	Responsible person	Method of implementation	Timeframe for implementation		Frequency	Evidence of compliance
 All areas disturbed by construction activities must be subject to landscaping and rehabilitation; All spoil and waste must be disposed of to a registered waste site; 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 access roads outside of farmland; Indigenous species must be used for with species and/grasses to where it compliments or approximates the original condition; Stockpiled topsoil must be used for rehabilitation (refer to Section 5.24: Stockpiling and stockpiled areas); Stockpiled topsoil must be evenly spread so as to facilitate seeding and minimise loss of soil due to erosion; 	Contractor and cEO	Implementation Draft and Implement Rehabilitation Plan/MS	During rehabilitation activities	ECO and/or dEO	During rehabilitati on activities	Close Out Audit/Report
 Rehabilitation of access roads outside of farmland; Indigenous species must be used for with species and/grasses to where it compliments or approximates the original condition; Stockpiled topsoil must be used for rehabilitation (refer to Section 5.24: Stockpiling and stockpiled areas); Stockpiled topsoil must be evenly spread so as to facilitate seeding and minimise loss of soil due to 						

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

6 ACCESS TO THE GENERIC EMPr

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

PART B: SECTION 2

SITE SPECIFIC INFORMATION AND DECLARATION

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

7.1.1 Details of the applicant

Name of applicant:	Pulida Energy (RF) (Proprietary) Limited	
Tel No:	010 344 0246	
Fax No:	Not supplied	
Postal Address	al Address PO Box 651286, Benmore. 2020	
Physical Address	5th Floor, Tower B, 102 Rivonia Road, Sandton	

7.1.2 Details and expertise of the EAP

Name of applicant:	Nick Gates (Reviewer – Nico-Ronaldo Retief)	
Tel No:	021 702 2884	
Fax No:	Not supplied	
E-mail address:	mail address: nickg@ncc-group.co.za	

Expertise of the EAP (Curriculum Vitae included):

7.1.3 Project name

Pulida Battery Energy Storage System (Bess) and Associated Infrastructure

7.1.4 Description of the project

Construction of Battery Energy Storage System (BESS) and associated infrastructure.

Pulida Energy (RF) (Proprietary) Limited (Pulida) intends to submit an application for Environmental Authorisation for retrofitting of a Battery Energy Storage System (BESS) to the existing Pulida Solar photovoltaic facility located in Letsemeng Local Municipality in the Free State province. The proposed project will include the following infrastructure:

- A Substation with a maximum height of HV bus-bar up to 10 m max and an HV Building up to 4 m
- Potentially access road to the BESS (6m wide road surface with 1m drainage on each side of the road) branching off of the existing roads, and internal roads (up to 8m wide) within the footprint of the BESS, as needed.
- MV Cabling (underground or overhead) between the BESS and the MV/HV substation.
- HV Cabling (underground or overhead) between HV/MV BESS substation and the HV substation (connection to Eskom network).
- Fencing around the BESS system and the substations for increased security measures.
- Temporary laydown area within the 4ha footprint of the BESS.
- Recommended firebreak around the BESS facility, to be located within the 4ha BESS footprint

The general purpose and utilisation of a Battery Energy Storage System (BESS) is to save and store excess electrical output as it is generated, allowing for a timed release of electricity to the grid when the capacity is required. BESS systems therefore provide flexibility in the efficient operation of the electricity grid through decoupling of the energy supply and demand.

7.1.5 Project location

N	0	FARM NAME (if applicable)	FARM NUMBER (if applicable)	PORTION NAME	PORTION NUMBER	LATITUDE	LONGITUDE
	1	Klipdrift	20		Remainder	29° 2'15.18"S	24°55'31.71"E

Cadastral Code: F01800000000002000000

7.2 Sub-section 2: Development footprint site map

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

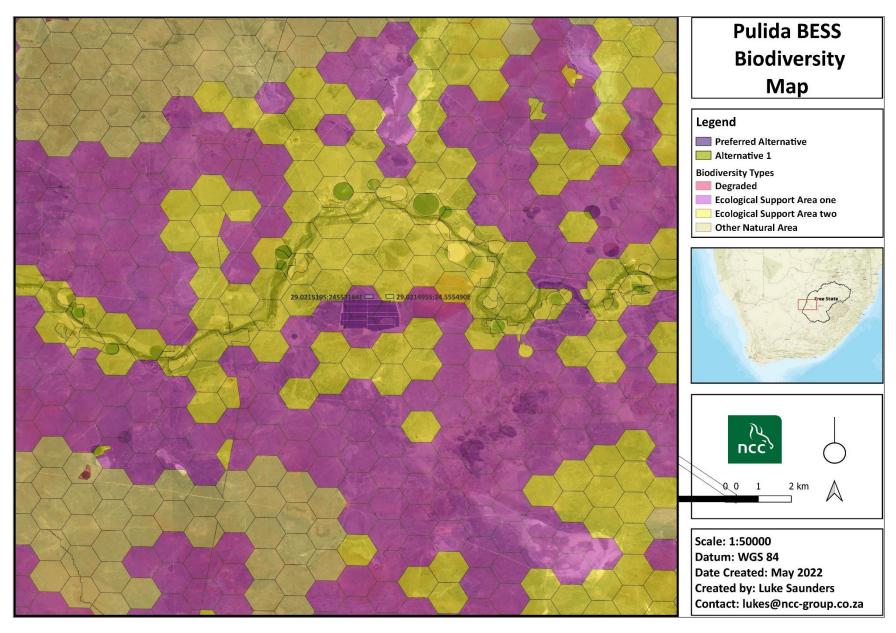


Figure 1: Biodiversity Map

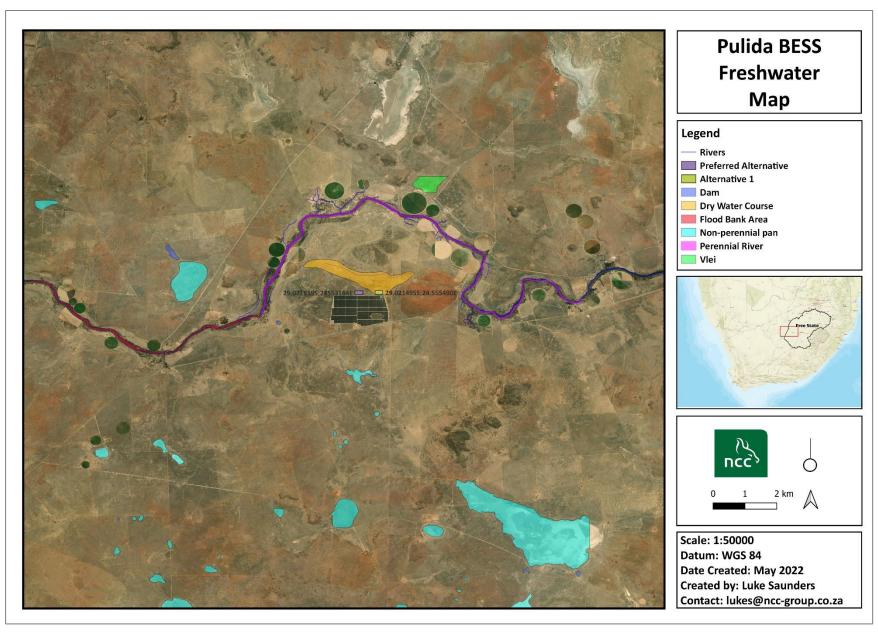


Figure 2: Freshwater Map

7.3 Sub-section 3: Declaration

The proponent/applicant or holder of the EA affirms that he/she will abide and comply withthe 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 impactmanagement outcomes and impact management actions are legally binding. The proponent/applicant or holder of the EA affirms that he/she will provide written notice to the CA 14 day prior to the date on which the activity will commence of commencement of construction to facilitate compliance inspections.

Signature Proponent/applicant/ holder of EA	Date:
C	<u> </u>

This declaration will be signed by the proponent/applicant/holder of the EA once the contractor is appointed and has provided inputs to this Generic EMPr as per the requirements of this template.

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

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

PART C

8 SITE SPECIFIC ENVIRONMENTAL ATTRIBUTES

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

CONSTRUCTION AND DECOMMISSIONING OUTCOMES AND ACTIONS

APPENDIX 1: METHOD STATEMENTS

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