GENERIC ENVIRONMENTAL MANAGEMENT PROGRAMME (EMPr) FOR THE DEVELOPMENT AND EXPANSION OF SUBSTATION INFRASTRUCTURE FOR THE TRANSMISSION AND DISTRIBUTION OF ELECTRICITY









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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 substation infrastructure for the transmission and distribution of electricity, 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 substation infrastructure for the transmission and distribution of electricity. 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 substation infrastructure for the transmission and distribution of electricity requiring EA in terms of NEMA. 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 realization 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 guidance and 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 development or expansion of substation infrastructure for the transmission and distribution of electricity, which are presented in the form of a template that has been preapproved.
			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

Part	Section	Heading	Content
			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 preapproved 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 <u>Part B: section 2</u> not be submitted. Once approved, this Section forms part of the EMPr for the development and is legally binding.
С		Site specific sensitivities/ attributes	If any specific environmental sensitivities/ attributes are present on the site which require site specific impact management outcomes and impact management actions, not included in the pre-approved generic EMPr, to manage impacts, these specific impact management outcomes and impact management actions must be included in this section. These specific environmental attributes must be referenced spatially and impact management outcomes and impact management actions must be provided. These specific impact management outcomes and impact management actions must be presented in the format of the pre-approved EMPr template (Part B: section 1)
			This section will not be required should the site contain no specific environmental sensitivities or attributes. However, if <u>Part C</u> is applicable to the site, it is required to be submitted together with the BAR or EIAR, for consideration of, and decision on, the application for EA. The

Part	Section	Heading	Content
			information in this section must be prepared by an EAP and must contain his/her name and expertise including a curriculum vitae. Once approved, Part C forms part of the EMPr for the site and is legally binding. This section applies only to additional impact management outcomes and impact management actions that are necessary for the avoidance, management and mitigation of impacts and risks associated with the specific development or expansion and which are not already included in Part B: section 1.
Appe	endix 1		Contains the method statements to be prepared prior to commencement of the activity. The method statements are not required to be submitted to the competent authority.

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

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

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

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

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

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

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

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

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

<u>Sub-section 1</u> contains the project name, the applicant's name and contact details, the site information, which includes coordinates of the property or farm in which the proposed substation 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 overlaid with the preliminary infrastructure layout using the national web based environmental screening tool, when available for compulsory use at: https://screening.environment.gov.za/screeningtool. The sensitivity map shall identify the nature of each sensitive feature e.g. 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, <u>Part B: Section 2</u> must be completed by the new applicant/proponent and submitted with the application for an amendment of the EA in terms of regulations 29 or 31 of the EIA Regulations, whichever applies. The information submitted as part of such an application for an amendment to an EA will be considered to be incomplete should a signed copy of <u>Part B: Section 2</u> not be submitted. Once approved, <u>Part B: Section 2</u> forms part of the EMPr for the development and the EMPr becomes legally binding to the new EA holder.

PART A - GENERAL INFORMATION

1. DEFINITIONS

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

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

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

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

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

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

The method statement must cover 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 any liquid or material that may occur;
- (vii) Timing and location of activities;
- (viii) Compliance/ non-compliance; and
- (ix) Any other information deemed necessary by the Project Manager.

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

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

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

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

"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	
its Contractor(s); - Issuing of site instructions to the Contractor for corr - Monitor the implementation of the EMPr through meetings. Overall management of the project and	quired, an environmental control officer (ECO) must monitor the implementation of the EMPr according ions of the environmental authorisation (EA). The nd giving mandate to enable the ECO to perform grated as part of the project team while remaining municated and adhered to by the Developer and rective actions required; nout the project by means of site inspections and

Responsible Person(s)	Role and Responsibilities
Developer Site Supervisor (DSS)	Role The DSS reports directly to the DPM, oversees site works, liaises with the contractor(s) and the ECO. The DSS 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

Responsible Person(s)	Role and Responsibilities		
	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;		

Responsible Person(s)	Role and Responsibilities
	 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 measures; Ensure that all stipulations within the EMPr are communicated and adhered to by the Employees, Contractor(s); Confine the development site to the demarcated area; Conduct environmental internal audits with regards to EMPr and authorisation compliance (on cEO); Assist the contractors in addressing environmental challenges on site; Assist in incident management: Reporting environmental incidents to developer and ensuring that corrective action is taken, and lessons learnt shared; Assist the contractor in investigating environmental incidents and compile investigation reports; Follow-up on pre-warnings, defects, non-conformance reports;

Responsible Person(s)	Role and Responsibilities
	 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 of substation infrastructure for the transmission and distribution of electricity 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.

Responsible Person(s)	Role and Responsibilities
contractor Environmental Officer	<u>Role</u>
(cEO)	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:
	<u>Responsibilities</u>
	 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 substation 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 copy of all documentation shall be filed, while an electronic copy may be kept where relevant. A duplicate file will be maintained in the office of the DSS (where applicable). This duplicate file must remain current and up-to-date. The filing system must be updated and relevant documents added as required. The EMPr file must be made available at all times on request by the CA or other relevant authorities. The EMPr file will form part of any environmental audits undertaken as prescribed in the EIA Regulations.

4.2 Documentation to be available

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

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

4.3 Weekly Environmental Checklist

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

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

4.4 Environmental site meetings

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

4.5 Required Method Statements

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

The method statement must cover applicable details with regard to:

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

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

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

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

4.6 Environmental Incident Log (Diary)

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

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

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

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

The Environmental Incident Log will be captured in the EAR.

4.7 Non-compliance

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

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

Complaints received regarding activities on the development site pertaining to the environment shall be recorded in a dedicated register and the response noted with the date and action taken. The ECO should be made aware of any complaints. Any 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 to be a record of all complaints received from communities, stakeholders and individuals. The Complaints Record shall:

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

4.11 Claims for damages

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

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

4.12 Interactions with affected parties

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

The ECOs shall:

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

4. Ensure that contact with affected parties is courteous at all times;

4.13 Environmental audits

Internal environmental audits of the activity and implementation of the EMPr must be undertaken. The findings and outcomes 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 substation infrastructure for the transmission and distribution of electricity. There is a list of aspects identified for the development or expansion of substation infrastructure for the transmission and distribution of electricity, 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 substation infrastructure for the transmission and distribution of electricity.

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

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

5.1 Environmental awareness training

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

Impact Management Actions	Implementation	on		Monitoring		
	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; The Contractor must allow for sufficient sessions to train all personnel with no more than 20 personnel attending each course; Refresher environmental awareness training is available as and when required; All staff are aware of the conditions and controls linked to the EA and within the EMPr and made aware of their individual roles and responsibilities in achieving compliance with the EA and EMPr; The Contractor must erect and maintain information posters at key locations on site, and the posters must include the following information as a minimum: 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; b) Mitigation measures to be implemented when carrying out specific activities; 	EPC Contractor	Compliance with EMPR / Method Statements	Duration of the construction phase	ECO / ESA	Daily	Monthly Environment al Control Reports

			1	1
c) Emergency preparedness and response				
procedures;				
d) Emergency procedures;				
e) Procedures to be followed when working near or				
within sensitive areas;				
f) Wastewater management procedures;				
g) Water usage and conservation;				
h) Solid waste management procedures;				
i) Sanitation procedures;				
j) Fire prevention; and				
k) Disease prevention.				
k) Discuse prevention.				
A record of all anvironmental avarances training courses				
- A record of all environmental awareness training courses				
undertaken as part of the EMPr must be available;				
- Educate workers on the dangers of open and/or unattended				
fires;				
 A staff attendance register of all staff to have received 				
environmental awareness training must be available.				
- Course material must be available and presented in				
appropriate languages that all staff can understand.				

5.2 Site Establishment development

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

Impact Management Actions	Ino polo po o polo di			Manitarina		
Impact Management Actions	Implementati	lon	Monitoring			
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence o
	person	implementation	implementation	person		compliance
- A method statement must be provided by the contractor prior	EPC	Compliance with	Duration of the	ECO / ESA	Daily	Monthly
to any onsite activity that includes the layout of the	Contractor	EMPR / Method	construction			Environmen
construction camp in the form of a plan showing the location		Statements	phase			al Contro
of key infrastructure and services (where applicable), including						Reports
but not limited to offices, overnight vehicle parking areas,						
stores, the workshop, stockpile and lay down areas, hazardous						
materials storage areas (including fuels), the batching plant (if						
one is located at the construction camp), designated access						
routes, equipment cleaning areas and the placement of staff						
accommodation, cooking and ablution facilities, waste and wastewater management;						
 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.						

5.3 Access restricted areas

Impact management outcome: Access to restricted areas prevented.

Impact Management Actions	Implementati	on	Monitoring			
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
 Identification of access restricted areas is to be informed by 	EPC	Compliance with	Duration of the	ECO / ESA	Daily	Monthly
the environmental assessment, site walk through and any	Contractor	EMPR / Method	construction			Environment
additional areas identified during development;		Statements	phase			al Control
- Erect, demarcate and maintain a temporary barrier with						Reports
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.						

5.4 Access roads

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

Impact Management Actions	Implementati	on	Monitoring			
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
 An access agreement must be formalised and signed by the 	EPC	Compliance with	Duration of the	ECO / ESA	Daily	Monthly
DPM, Contractor and landowner before commencing with	Contractor	EMPR / Method	construction			Environment
the activities;		Statements	phase			al Control
- All private roads used for access to the servitude must be						Reports
maintained and upon completion of the works, be left in at						
least the original condition						
- All contractors must be made aware of all these access						
routes.						

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

	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
 Use existing gates provided to gain access to all parts of the 	EPC	Compliance with	Duration of the	ECO / ESA	Daily	Monthly
area authorised for development, where possible;	Contractor	EMPR / Method	construction			Environment
- Existing and new gates to be recorded and documented in		Statements	phase			al Control
accordance with section 4.9: photographic record;						Reports
 All gates must be fitted with locks and be kept locked at all 						
times during the development phase, unless otherwise						
agreed with the landowner;						
- At points where the line crosses a fence in which there is no						
suitable gate within the extent of the line servitude, on the						
instruction of the DPM, a gate must be installed at the						
approval of the landowner;						
 Care must be taken that the gates must be so erected that 						
there is a gap of no more than 100 mm between the bottom						
of the gate and the ground;						
- Where gates are installed in jackal proof fencing, a suitable						
reinforced concrete sill must be provided beneath the gate;						
 Original tension must be maintained in the fence wires; 						
 All gates installed in electrified fencing must be re-electrified; 						
- All demarcation fencing and barriers must be maintained in						
good working order for the duration of 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 life-stock 						
must only be erected with the permission of the land owner.						
- All fencing must be developed of high quality material						
bearing the SABS mark;						

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

5.6 Water Supply Management

Impact management outcome: Undertake responsible water usage.

Impact Management Actions	Implementati	on		Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
 All abstraction points or bore holes must be registered with 	EPC	Compliance with	Duration of the	ECO / ESA	Daily	Monthly
the DWS and suitable water meters installed to ensure that	Contractor	EMPR / Method	construction			Environment
the abstracted volumes are measured on a daily basis;		Statements	phase			al Control
 The Contractor must ensure the following: 						Reports
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.			
 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 waste water management

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

Impact Management Actions	Implementation			Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
- Runoff from the cement/ concrete batching areas must be	EPC	Compliance with	Duration of the	ECO / ESA	Daily	Monthly
strictly controlled, and contaminated water must be	Contractor	EMPR / Method	construction			Environment
collected, stored and either treated or disposed of off-site,		Statements	phase			al Control
at a location approved by the project manager;						Reports
- 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.		

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	Implementati	on	Monitoring			
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
- All measures regarding waste management must be	EPC	Compliance with	Duration of the	ECO / ESA	Daily	Monthly
undertaken using an integrated waste management	Contractor	EMPR / Method	construction			Environment
approach;		Statements	phase			al Control
 Sufficient, covered waste collection bins (scavenger and weatherproof) must be provided; 						Reports
 A suitably positioned and clearly demarcated waste collection site must be identified and provided; 						
The waste collection site must be maintained in a clean and orderly manner;						
 Waste must be segregated into separate bins and clearly marked for each waste type for recycling and safe disposal; 						
 Staff must be trained in waste segregation; 						!
 Bins must be emptied regularly; 						

_	General waste produced onsite must be disposed of at			
	registered waste disposal sites/ recycling company;			
_	Hazardous waste must be disposed of at a registered waste			
	disposal site;			
_	Certificates of safe disposal for general, hazardous and			
	recycled waste must be maintained.			

5.9 Protection of watercourses and estuaries

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

Impact Management Actions	Implementati	on	Monitoring			
			T		T =	
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
 All watercourses must be protected from direct or indirect 	EPC	Compliance with	Duration of the	ECO / ESA	Daily	Monthly
spills of pollutants such as solid waste, sewage, cement, oils,	Contractor	EMPR / Method	construction			Environment
fuels, chemicals, aggregate tailings, wash and		Statements	phase			al Control
contaminated water or organic material resulting from						Reports
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 proximity			
	to any watercourse, slopes must be stabilised using suitable			
	materials, i.e. sandbags or geotextile fabric, to prevent sand			
	and rock from entering the channel; and			
	d) Appropriate rehabilitation and re-vegetation measures			
	for the watercourse banks must be implemented timeously.			
	In this regard, the banks should be appropriately and			
	incrementally stabilised as soon as development allows.			
	•			

5.10 Vegetation clearing

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

Impact Management Actions

Implementation

Monitoring

	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
General:	EPC	Compliance with	Duration of the	ECO / ESA	Daily	Monthly
	Contractor	EMPR / Method	construction			Environment
 Indigenous vegetation which does not interfere with the development must be left undisturbed; 		Statements	phase			al Control Reports
 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;						
 Only a registered pest control operator may apply 						
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 						

herbic	ide usage;			
- No he	bicides must be used in estuaries;			
- All pro	tected species and sensitive vegetation not removed			
must	be clearly marked and such areas fenced off in			
accor	dance to Section 5.3: Access restricted areas .			
Alien i	nvasive vegetation must be removed and disposed of			
at a lic	censed waste management facility.			

5.11 Protection of fauna

Impact management outcome: Disturbance to fauna is minimised.

Impact Management Actions	Implementati	ion		Monitoring		
	Responsible person	Method of implementation	Timeframe fo	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; No poaching must be tolerated under any circumstances. 		Compliance with EMPR / Method Statements	Duration of the construction phase	ECO / ESA	Daily	Monthly Environment al Control Reports

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 resources

Impact management outcome: Impact to heritage resources is minimised.

Impact Management Actions	Implementati	on		Monitoring		
					T	
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
- Identify, demarcate and prevent impact to all known	EPC	Compliance with	Duration of the	ECO / ESA	Daily	Monthly
sensitive heritage features on site in accordance with the	Contractor	EMPR / Method	construction			Environment
No-Go procedure in Section 5.3: Access restricted areas;		Statements	phase			al Control
- Carry out general monitoring of excavations for potential						Reports
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.

5.13 Safety of the public

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

Impact Management Actions	Implementati	on		Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
 Identify fire hazards, demarcate and restrict public access to 	EPC	Compliance with	Duration of the	ECO / ESA	Daily	Monthly
these areas as well as notify the local authority of any	Contractor	EMPR / Method	construction			Environment
potential threats e.g. large brush stockpiles, fuels etc.;		Statements	phase			al Control
- All unattended open excavations must be adequately						Reports
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.						

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	Implementati	on		Monitoring	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: a) Toilets are located no closer than 100 m to any watercourse or water body; b) Toilets are secured to the ground to prevent them from toppling due to wind or any other cause; c) No spillage occurs when the toilets are cleaned or emptied and the contents are managed in 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; e) Toilets are emptied before long weekends and 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 copy of the waste disposal certificates must be maintained. 	EPC Contractor	Compliance with EMPR / Method Statements	Duration of the construction phase	ECO / ESA	Daily	Monthly Environment al Control Reports		

5.15 Prevention of disease

Impact Management outcome: All necessary precautions linked to the spread of disease are taken.

Impact Management Actions	Implementati	on		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 at central points; Medical support must be made available; Provide access to Voluntary HIV Testing and Counselling Services. 	EPC Contractor	Compliance with EMPR / Method Statements	Duration of the construction phase	ECO / ESA	Daily	Monthly Environment al Control Reports

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					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	Compliance with EMPR / Method Statements	Duration of the construction phase	ECO / ESA	Daily	Monthly Environment al Control Reports

5.17 Hazardous substances

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

Impact Management Actions	Implementati	on	Monitoring			
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
- The use and storage of hazardous substances to be	EPC	Compliance with	Duration of the	ECO / ESA	Daily	Monthly
minimised and non-hazardous and non-toxic alternatives	Contractor	EMPR / Method	construction			Environment

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

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

concerning storm and waste water management and 5.8 for

solid and hazardous waste management.

5.18 Workshop, equipment maintenance and storage

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

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

5.19 Batching plants

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

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

Impact Management Actions	Implementati	on		Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
- Take all reasonable measures to minimise the generation of	EPC	Compliance with	Duration of the	ECO / ESA	Daily	Monthly
dust as a result of project development activities to the	Contractor	EMPR / Method	construction			Environment
satisfaction of the ECO;		Statements	phase			al Contro
- Removal of vegetation must be avoided until such time as						Reports
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.		

5.21 Blasting

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

Impact Management Actions	Implementati	on		Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
- Any blasting activity must be conducted by a suitably	EPC	Compliance with	Duration of the	ECO / ESA	Daily	Monthly
licensed blasting contractor; and	Contractor	EMPR / Method	construction			Environment
 Notification of surrounding landowners, emergency services 		Statements	phase			al Control
site personnel of blasting activity 24 hours prior to such						Reports
activity taking place on Site.						

5.22 Noise

Impact Management outcome: Prevent unnecessary noise to the environment by ensuring that noise from development activity is mitigated.

Impact Management Actions	Implementati	ion		Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
- The Contractor must keep noise level within acceptable	EPC	Compliance with	Duration of the	ECO / ESA	Daily	Monthly
limits, Restrict the use of sound amplification equipment for	Contractor	EMPR / Method	construction			Environment
communication and emergency only;		Statements	phase			al Control
- All vehicles and machinery must be fitted with appropriate						Reports
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.						
management.						

5.23 Fire prevention

Impact management outcome: Prevention of uncontrollable fires.

Impact Management Actions	Implementation	on		Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
- Designate smoking areas where the fire hazard could be	EPC	Compliance with	Duration of the	ECO / ESA	Daily	Monthly
regarded as insignificant;	Contractor	EMPR / Method	construction			Environment
 Firefighting equipment must be available on all vehicles located on site; 		Statements	phase			al Control Reports
 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. 						

5.24 Stockpiling and stockpile areas

Impact management outcome: Reduce erosion and sedimentation as a result of stockpiling.

Impact Management Actions	Implementati	on		Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
- All material that is excavated during the project	EPC	Compliance with	Duration of the	ECO / ESA	Daily	Monthly
development phase (either during piling (if required) or	Contractor	EMPR / Method	construction			Environment
earthworks) must be stored appropriately on site in order to		Statements	phase			al Control
minimise impacts to watercourses, watercourses and water						Reports
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.						

5.25 Civil works

Impact management outcome: Impact to the environment minimised during civil works to create the substation terrace.

Impact Management Actions	Implementation	on		Monitoring		
	Responsible	Method o	f Timeframe	or Responsible	Frequency	Evidence of

		person	implementation	implementation	person		compliance
_	Where terracing is required, topsoil must be collected and retained for the purpose of re-use later to rehabilitate disturbed areas not covered by yard stone; Areas to be rehabilitated include terrace embankments and areas outside the high voltage yards;	EPC Contractor	Compliance with EMPR / Method Statements	Duration of the construction phase	ECO / ESA	Daily	Monthly Environment al Control Reports
_	Where required, all sloped areas must be stabilised to ensure proper rehabilitation is effected and erosion is controlled;						
_	These areas can be 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;						
_	Rehabilitation of the disturbed areas must be managed in accordance with Section 5.35: Landscaping and rehabilitation ;						
_	All excess spoil generated during terracing activities must be disposed of in an appropriate manner and at a recognised landfill site; and						
_	Spoil can however be used for landscaping purposes and must be covered with a layer of 150 mm topsoil for rehabilitation purposes.						

5.26 Excavation of foundation, cable trenching and drainage systems

ompliance with Down / Method co	imeframe for mplementation Duration of the construction phase	person	Frequency Daily	Evidence of compliance Monthly Environment
MPR / Method co	construction	ECO / ESA	Daily	-
				al Control Reports
				<u>I</u>

	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
- Batching of cement to be undertaken in accordance with	EPC	Compliance with	Duration of the	ECO / ESA	Daily	Monthly
Section 5.19: Batching plants; and	Contractor	EMPR / Method	construction			Environment
Residual solid waste must be disposed of in accordance with		Statements	phase			al Control
Section 5.8: Solid waste and hazardous management.						Reports

5.28 Installation of equipment (circuit breakers, current Transformers, Isolators, Insulators, surge arresters, voltage transformers, earth switches)

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

Impact Management Actions	Implementati	on		Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
 Management of dust must be conducted in accordance 	EPC	Compliance	Duration of the	ECO / ESA	Daily	Monthly
with Section 5. 20: Dust emissions;	Contractor	with EMPR /	construction			Environment
 Management of equipment used for installation must be 		Method	phase			al Control
conducted in accordance with Section 5.18: Workshop,		Statements				Reports
equipment maintenance and storage;						
 Management hazardous substances and any associated 						
spills must be conducted in accordance with Section 5.17:						
Hazardous substances; and						
- Residual solid waste must be recycled or disposed of in						
accordance with Section 5.8: Solid waste and hazardous						
management.						

5.29 Steelwork Assembly and Erection

Impact management outcome: No environmental degradation occurs as a result of steelwork assembly and erection.

Impact Management Actions	Implementati	on		Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
- During assembly, care must be taken to ensure that no	EPC	Compliance	Duration of the	ECO / ESA	Daily	Monthly
wasted/unused materials are left on site e.g. bolts and	Contractor	with EMPR /	construction			Environment
nuts		Method	phase			al Control
 Emergency repairs due to breakages of equipment must 		Statements				Reports
be managed in accordance with Section 5. 18:						
Workshop, equipment maintenance and storage and						
Section 5.16: Emergency procedures.						

5.30 Cabling and Stringing

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

Impact Management Actions	Implementati	on		Monitoring		
	_					
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance

- Residual solid waste (off cuts etc.) shall be recycled or	EPC	Compliance with	Duration of the	ECO / ESA	Daily	Monthly
disposed of in accordance with Section 6.8: Solid waste and	Contractor	EMPR / Method	construction			Environment
hazardous Management;		Statements	phase			al Control
- Management of equipment used for installation shall be						Reports
conducted in accordance with Section 5.18: Workshop,						
equipment maintenance and storage;						
- Management hazardous substances and any associated						
spills shall be conducted in accordance with Section 5.17 :						
Hazardous substances.						

5.31 Testing and Commissioning (all equipment testing, earthing system, system integration)

Impact management outcome: No environmental degradation occurs as a result of Testing and Commissioning.

Impact Management Actions	Implementati	on		Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
- Residual solid waste must be recycled or disposed of in	EPC	Compliance	Duration of the	ECO / ESA	Daily	Monthly
accordance with Section 5.8: Solid waste and hazardous	Contractor	with EMPR /	construction			Environment
management.		Method	phase			al Control
		Statements				Reports

5.32 Socio-economic

Impact management outcome: enhanced socio-economic development.

Impact Management Actions	Implementati	on		Monitoring		
	Dosponsible	Method of	Timeframe for	Responsible	Fraguanay	Evidence of
	Responsible			·	Frequency	compliance
Davidan and implement communication strategies to	person EPC	implementation	implementation	person FCO / ESA	Daily	•
 Develop and implement communication strategies to facilitate public participation; 	Contractor	Compliance with EMPR / Method	Duration of the construction	ECO / ESA	Daily	Monthly Environment
- Develop and implement a collaborative and constructive		Statements	phase			al Control
approach to conflict resolution as part of the external						Reports
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.						

5.33 Temporary closure of site

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

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

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

5.34 Dismantling of old equipment

Impact management outcome: Impact to the environment to be minimised during the dismantling, storage and disposal of old equipment commissioning.

Impact Management Actions	Implementati	on		Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
- All old equipment removed during the project must be	EPC	Compliance	Duration of the	ECO / ESA	Daily	Monthly
stored in such a way as to prevent pollution of the	Contractor	with EMPR /	construction			Environment
environment;		Method	phase			al Control
- Oil containing equipment must be stored to prevent		Statements				Reports
leaking or be stored on drip trays;						
- All scrap steel must be stacked neatly and any disused						
and broken insulators must be stored in containers;						
- Once material has been scrapped and the contract has						
been placed for removal, the disposal Contractor must						
ensure that any equipment containing pollution causing						
substances is dismantled and transported in such a way						
as to prevent spillage and pollution of the environment;						
- The Contractor must also be equipped to contain and						
clean up any pollution causing spills; and						
Disposal of unusable material must be at a licensed waste						
disposal site.						

5.35 Landscaping and rehabilitation

Impact management outcome: Areas disturbed during the development phase are returned to a state that approximates the original condition.

Impact Management Actions	Implementati	on		Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person	rrequericy	compliance
All areas disturbed by construction activities must be subject.	EPC	Compliance with	Duration of the	ECO / ESA	Daily	Monthly
to landscaping and rehabilitation; All spoil and waste must	Contractor	EMPR / Method	construction	ECO / E3A	Daily	Environment
be disposed of to a registered waste site;	Confidence	Statements	phase			al Control
 All slopes must be assessed for contouring, and to contour 		3idieilieilis	pilase			Reports
only when the need is identified in accordance with the						kepons
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;						
 Before placing topsoil, all visible weeds from the placement 						
area and from the topsoil must be removed;						
 Subsoil must be ripped before topsoil is placed; 						

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

6 ACCESS TO THE GENERIC EMPr

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

PART B: SECTION 2

7 SITE SPECIFIC INFORMATION AND DECLARATION

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

7.1.1 Details of the applicant:

Name of applicant: Midas BESS (Pty) Ltd

Tel No: 27 (21) 418 2596

Fax No: + 27 (0) 86 611 0882

Postal Address: 101, Block A, West Quay Building

7 West Quay Road, Waterfront

Cape Town, 8000

Physical Address: 101, Block A, West Quay Building

7 West Quay Road, Waterfront

Cape Town, 8000

7.1.2 Details and expertise of the EAP:

Name of EAP: Dale Holder (Cape Environmental Assessment Practitioners)

Tel No: 044 8740365

Fax No: 044 884 0432

E-mail address: dale@cape-eaprac.co.za

Expertise of the EAP (Curriculum Vitae included):

7.1.3 Project name: Midas BESS (Pty) Ltd

7.1.4 **Description of the project:** The Applicant, Midas BESS (Pty) Ltd, is proposing the construction of a Battery Energy Storage System (BESS) (known as the Midas Battery Energy Storage Facility) located on a approximately 18 km east of Carltonville in the Gauteng Province.

The BESS multiple containerised Lithium Technology Batteries as well as associated infrastructure. The BESS will have a export capacity of up to 77MW.

.This EMPr must be read in conjunction with the overarching EMP'r for the greater project

.

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.

Appendix A includes the final Site layout plan that shows all the sensitive features in the vicinity of this infrastructure.

7.3 Sub-section 3: Declaration

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

Signature Proponent/applicant/ holder of EA Date: 16 July 2024

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

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

PART C

8 SITE SPECIFIC ENVIRONMENTAL ATTRIBUTES

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

If <u>Part C</u> 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, <u>Part C</u> 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.

The site specific attributes are included in the main EMPr which must be read in conjunction with this generic EMPr

APPENDIX 1: METHOD STATEMENTS

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