## ENVIRONMENTAL AUDIT REPORT FOR THE PROPOSED ESKOM HOLDINGS (SOC) LIMITED BATTERY ENERGY STORAGE SYSTEM (BESS) ELANDSKOP SUBSTATION

**REPORT NO. 3- JANUARY 2023** 

DEA REFERENCE NO. 14/12/16/3/3/1/2114/AM2



PREPARED FOR ESKOM HOLDINGS (SOC) LIMITED Eskom Holdings SOC Limited Contact: Tshililo Nekhalale Email: <u>NekhalT@eskom.co.za</u>

Submitted by:



ENVIRONMENTAL SINCE 2007

SENKOSI ENVIRONMENTAL CONSULTANTS							
NAME OF AUTHOR	Mr. Sipho Zulu						
DESIGNATION	ENVIRONMENTAL COMPLIANCE OFFICER						
QUALIFICATIONS	BSc Enviro. Man (UWS); Proj. Man Diploma (UP); Environmental Law (UNW); Business Comms (UNISA)						
AFFILIATIONS	EAPASA (2019/1137); ELA (2022/521/GP); (IAIASA- 7032); (PMSA-17383381)						
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## I. DETAILS OF THE ENVIRONMENTAL AUDIT REPORT AUTHOR

# II. DECLARATION OF THE AUTHOR

I ... **Siphosenkosi Zulu**....., on behalf of Senkosi Environmental, as the appointed independent environmental practitioner ("EAP") hereby declare that I:

- act/ed as the independent EAP in this application;
- regard the information contained in this report to be true and correct, and
- do not have and will not have any financial interest in the undertaking of the activity, other than remuneration for work performed in terms of the NEMA, the Environmental Impact Assessment Regulations, 2014 and any specific environmental management Act;
- have and will not have no vested interest in the proposed activity proceeding;
- have disclosed, to the applicant and competent authority, any material information that have or may have the potential to influence the decision of the competent authority or the objectivity of any report, plan or document required in terms of the NEMA, the Environmental Impact Assessment Regulations, 2010 and any specific environmental management Act;
- am fully aware of and meet the responsibilities in terms of NEMA, the Environmental Impact Assessment Regulations, 2014 and any specific environmental management Act, and that failure to comply with these requirements may constitute and result in disqualification;
- have ensured that information containing all relevant facts in respect of the application was distributed or made available to interested and affected parties and the public and that participation by interested and affected parties was facilitated in such a manner that all interested and affected parties were provided with a reasonable opportunity to participate and to provide comments;
- have ensured that the comments of all interested and affected parties were considered, recorded and submitted to the competent authority in respect of the application;
- have kept a register of all interested and affected parties that participated in the public participation process;
- have provided the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not; and

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• I am aware that a false declaration is an offence in terms of the EIA regulations.

Signature of the Environmental Assessment Practitioner:

Name of company: Senkosi Environmental

Date: 03/02/2023

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#### **JANUARY 2023**

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## 1. INTRODUCTION

Senkosi Environmental Consulting, the appointed independent Environmental Control Officer (ECO) for the proposed Eskom Holdings (Soc) Limited Battery Energy Storage System (Bess) Elandskop Substation, located within the Msunduzi and Mpendle Local Municipalities, KwaZulu-Natal province conducted the third audit on the 3<sup>rd</sup> of February 2023. This environmental audit report has been prepared in compliance with Section 34 of the EIA regulations 2014 (as amended), promulgated under the National Environmental Management Act, 1998 (Act 107 of 1998). The report presents the audit findings of the audit which was conducted against the Environmental Authorization (EA) issued by the Department of Forestry, Fisheries and Environment (DFFE) as well as the approved Environmental Management Programme (EMPr).

Section 34(2) of the 2014 EIA Regulations (as amended) [L01] requires an environmental audit report, "compiled by an independent person ... to provide verifiable findings, in a structured and systematic manner, on

- a) the level of performance against and compliance of an organisation or project with the provisions of the requisite environmental authorization (EA) and Environmental Management Programme (EMPr) and, where applicable, the closure plan; and
- b) the ability of the measures contained in the EMPr, and where applicable the closure plan, to sufficiently provide for the avoidance, management and mitigation of environmental impacts associated with the undertaking of the activity".

#### 1.1 Objective and Scope of this Environmental Audit

The EMPr for the facility was revised in April 2019 to comply with condition 23 of **DEA Ref: 14/12/16/3/3/1/2114** which requires an Environmental Management Plan (EMP) to be compiled, or an existing operational environmental management system to be amended to include the operations of the authorised activity. In accordance with Appendix 7 of 2014 EIA Regulations (as amended) [L01] the purpose of conducting an EMPr audit is to:

- (a) report on-
  - (i) the level of compliance with the conditions of the environmental authorization and the EMPr; and
  - (ii) the extent to which the avoidance, management and mitigation measures provided for in the EMPr achieve the objectives and outcomes of the EMPr;
- (b) identify and assess any new impacts and risks as a result of undertaking the activity;
- (c) evaluate the effectiveness of the EMPr;
- (d) identify shortcomings in the EMPr; and
- (e) identify the need for any changes to the avoidance, management and mitigation measures provided for in the EMPr.

## 1.2 Credentials of the Independent Environmental Auditors

Senkosi Environmental is a Level 1 B-BBEE, South African environmental consulting company and has been in existence for 16 years. We pride ourselves in professional advisory services and product delivery to our clients. The service lines offered by Senkosi Environmental include:

- Environmental Screening Assessments.
- Environmental and Social Impact Authorizations.
- Environmental Auditing and Compliance.
- Monitoring of Air, Water, Waste, Soil and Sediment.
- Sustainability management and reporting.
- 1.3 Requirements for Environmental Auditors

- Advisory Services.
- Climate Change and Air Quality
- Due Diligence Investigations.
- Products and supplies; and
- Safety Equipment.

The National Environmental Management Act (NEMA) and the 2014 EIA Regulations (as amended) [L01] requires an independent person with the relevant environmental auditing expertise to conduct the assessment and prepare the environmental report. The environmental auditor is required to have the following skills, attributes and abilities:

## Independent and Objective

The environmental auditor should have the ability to unravel the real concerns behind stated issues, have the ability to separate issues from personalities, cultural perspectives and emotions, have empathy towards all viewpoints and prevent vociferous viewpoints from being the only ones that are heard. The environmental auditor is to remain independent and perform work in an objective manner, even if this results in views and findings that are not favourable to the holder of the authorization.

## Expertise in conducting environmental impact assessments

The environmental auditor should be knowledgeable of and be able to conduct investigations of the environment likely to be significantly affected by the authorized activity, investigate potential impact consequences for or impacts on the environment and also evaluate potential alternatives.

## Comply with the Act, the Regulations and other applicable legislation

The environmental auditor should have knowledge of the environmental legislation (Acts, Regulations and guidelines) that have relevance to the authorized activity. All relevant matters to be taken into consideration when preparing the environmental audit report.

## **Communicate and Disclose Information**

The environmental auditor is required to disclose to the holder of the authorization and the competent authority all material information in their possession that reasonably has or may have the potential of influencing any decision to be taken in respect to the authorized activity; or that may influence the objectivity of the environmental audit report. The environmental audit report must provide verifiable findings, in a structured and systematic manner and be made

available to interested and affected parties (including organs of state in all spheres of government that may have jurisdiction over any aspect of the activity) as required by the competent authority.

#### 1.4 Environmental Audit Team

The environmental audit team to conduct the assessment and who prepared the audit report are:

**Mr Siphosenkosi Zulu** is a Registered Environmental Assessment Practitioner (EAPASA), environmental compliance and sustainability practitioner with 20 years of experience. Siphosenkosi specialises in Strategic Environmental, Social, Economic and Sustainable Development projects. Audits conducted in the pat include the Water license audit at Kusile Power station, the Construction of a 114km line in Free State, Virginia and the PDP construction in Northern Cape, Limpopo, KZN and Mpumalanga province. Siphosenkosi has obtained numerous Environmental Authorisation and Water use licenses in his career. For more information, a cv is attached with more details of his capabilities and expertise.

**Ms Mandisa Mtshali** is an audit team member with Mr Siphosenkosi Zulu. She is an Environmentalist in her own right. She conducted and authored several audit reports in the past 3 years. She also has substantial experience in undertaking Environmental Impact Assessments, Basic Assessments, Environmental Authorization applications, Water Use License Applications, Waste Management License applications, compilation of Environmental Management Plans, Closure and Rehabilitation Plans, Environmental Compliance Auditing, GIS mapping, stakeholder engagement, data analysis, report writing, and legislation review amongst many other things.

#### 1.4.1 CVs and Declarations of Independence

Comprehensive CVs for the environmental auditors are attached in Annex B.

#### 1.5 Environmental Audit Methodology

Senkosi Environmental performed an independent assessment of the Elandskop BESS compliance with the EA and performance against the 2020 EMPr requirements. Preparation of the Audit was conducted by communicating with the EO on site. She was consulted to confirm her availability on site and all other members of the site management team. Dates were set and confirmed with key members.

Arrival was at 08:30 in the morning and a meeting was held to discuss how the audit would be conducted for that day. Issues were discussed relevant to the audit. A safety presentation was made by a safety officer on site addressing among other things the emergency situation that may arise. Attendees we told where and how to move to the point of assembly should there be an emergency. The attendance register was to be used to account for all personnel on site. An attendance register was completed by all members attending the audit session. See attached appendix showing the attendance register. The key delivery milestones for the Environmental Audit are presented below:

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**JANUARY 2023** 

Engagement Milestones	Delivery Date
Initiation of Communication for Audit Plan	22 November 2022
Site visit and initial list of audit findings	03 February 2023
Draft Audit Report submitted to client	07 February 2023
Receipt of comments & review of draft report from Client	09 February 2023
Final Audit Report	13 February 2023
Engagement Close-out Meeting proposed for	15 February 2023

## 2. SUMMARY OF MAIN FINDINGS

The environmental audit was conducted on the 3<sup>rd</sup> of February 2023. It was noted that the applicant was still awaiting approval of the Fire Management Plan by the Mpendle Local Municipality. No construction activities were noted on the day of the audit. Correct signage and traffic calming measures were well implemented within the site. The waste bins were properly labelled and closed and contained the designated waste type. The ablution facilities were well maintained and complied with the specifications of the EMPr. Sufficient fire extinguishers were present on site and site service was up to date. The first aid was available.

#### 2.1. Non-Compliances

The recorded non-compliances were as follows:

- ✓ An approved Fire Management Plan was not available on site.
- ✓ The alien invasive vegetation that was removed on site prior construction was not properly disposed of.
- ✓ It was noted that food had been disposed of in a waste bin designated for hazardous waste only.

## 2.2. COMPLIANCES

- ✓ The environmental file was present on site, and it contained all the necessary documentation.
- ✓ A security guard was available on site to control access.
- ✓ The site was neat and well maintained.
- ✓ Sufficient fire extinguishers were provided and serviced.
- ✓ Stockpiles within the construction site did not exceed 2 meters in height.
- ✓ Housekeeping was appropriate.
- ✓ Proper signage and traffic calming measures were implemented on site.

- ✓ The no-go areas were barricaded to control access.
- ✓ All stationary vehicles had drip trays underneath to prevent soil and groundwater contamination.
- ✓ The first aid kit was present on site.
- ✓ The ablution facilities are well maintained and serviced monthly. Proof of weekly service was provided.

## 3. COMPLIANCE MONITORING

The compliance monitoring was done against the approved EMPr and EA.

## Table 1: Compliance Rating

Rating	Description	Abbreviation	Colour Code
Compliance	Fully Complying	С	
Opportunity for Improvement (to comply)	Complying with fraction of the conditions	OFI	
Non-Compliance	Not Complying to any of the conditions	NC	
Not Applicable	Conditions that are not applicable at the time of inspection	N/A	

## Table 2: Compliance to the EA Conditions

	COMPLIANCE TO EA CONDITIONS										
	EA Condition		Compliance			Recommendation/ Comments	Responsible	Action Date			
			OFI	NC	N/A		Person	Action Date			
	Scope of Authorization										
1.	The holder of the authorization is responsible for ensuring compliance with the conditions contained in the Environmental Authorization. Including any person acting on the holder's behalf, including but not limited to, an agent, servant, contractor, sub- contractor, employee, consultant or person rendering a service to the holder of the authorization.					An environmental officer has been appointed to monitor and enforce compliance on site on a day-to-day basis.	Applicant	17 October 2022			
2.	The activities authorized may only be carried out at the property as described on page 4 of the EA					All construction activities were kept within the site boundary.	Applicant	03 February 2023			
3.	Any changes to, or deviations from, the project description set out in this authorization must be approved, in writing, by the Department before such changes or deviations may be affected.					There is no deviation from the project description.	Applicant	03 February 2023			

	COMPLIANCE TO EA CONDITIONS										
	EA Condition		Compliance			Recommendation/ Comments	Responsible	Action Date			
			OFI	NC	N/A		Person	Action Date			
4.	The holder of an EA must apply for an amendment of the EA with the Competent Authority (CA) of any alienation, transfer and change of ownership rights in the property on which the activity is to take place.					A letter from DFFE approving the change of name of property ownership for the application was presented. Ms. Tshililo Nekhalale has been appointed the new property representative.	Applicant	22 Nov 2022			
5.	This activity must commence within a period of five (5) years from the date of issue of this environmental authorization. If commencement of the activity does not occur within that period, the authorization lapses and a new application for environmental authorization must be made in order for the activity to be undertaken.					The activity commenced on 4 November 2022 and the EA was issued on 19 June 2020. Therefore, the activity commenced within a period of five (5) years from the date of issue of this environmental authorization.	Applicant	4 November 2022.			
6.	Commencement with one activity listed in terms of this environmental authorisation					The commencement of the activity was on the 4 <sup>th</sup> of November 2022. A revised commencement letter will be sent to the DFFE.	Applicant	03 February 2023			

	COMPLIANCE TO EA CONDITIONS										
	EA Condition		Compliance			Recommendation/ Comments	Responsible	Action Date			
			OFI	NC	N/A		Person	Action Date			
	constitutes commencement of all authorised activities.										
7.	The holder of the EA must notify interested and affected party (I&AP), in writing and within twelve (14) calendar days of the date of the EA of the decision to authorize the activity. The notification must comply with the said conditions.					The I&APs were notified about the decision to authorize the activity within 14 days of the issue of the EA. The EA was issued on the 19 <sup>th</sup> of June 2020 and the I&APs were notified on 24 June 2020.	Applicant	20 June 2020			
8.	The notification referred to must- 8.1 Specify the date on which the authorisation was issued; 8.2 Inform the interested and affected party of the appeal procedure provided for in the National Appeal Regulations, 2014;					The letter did not inform the I&AP about the reasons of the decision as stipulated in the National Appeal Regulations 2014.	Applicant	24 June 2020			

COMPLIANCE TO EA CONDITIONS										
EA Condition		Compliance			Recommendation/ Comments	Responsible	Action Date			
LA Condition	С	OFI	NC	N/A	Recommendation/ Comments	Person				
8.3 Advise the interested and affected party that a										
copy of the authorisation will be furnished on										
request and										
8.4 Give the reasons of the competent authority for										
the decision.										
Commencement of the Activity										
9. The authorised activity must not commence until the										
period of the submission of appeals has lapsed as										
per the National Appeal Regulations, 2014. In terms										
of section 43(7), an appeal under section 43 of the					No encod has been ladred	Angliaget	03 February			
National Environmental Management Act, 1998 will					No appeal has been lodged.	Applicant	2023			
suspend the environmental authorisation or any										
provision or condition attached thereto. In the										
instance where an appeal is lodged you may not										

COMPLIANCE TO EA CONDITIONS											
EA Condition		Compliance			Recommendation/ Comments	Responsible	Action Date				
		OFI	NC	N/A		Person	Action Date				
commence with the activity until such time that the appeal has been finalised.											
<ul> <li>10. The Environmental Management Programme (EMPr) submitted as part of the Application for EA is hereby approved. This EMPr must be implemented and strictly adhered to.</li> <li>Frequency and process of updating the EMPr</li> </ul>					The specifications of the EMPr are adhered to. Please refer to the photographic evidence below.	Applicant	03 February 2023				
<ul> <li>11. The EMPr must be updated where the findings of the environmental audit reports, contemplated in conditions 23 below, indicate insufficient mitigation of environmental impacts associated with the undertaking of the activity, or insufficient levels of compliance with the environmental authorisation of EMPr.</li> </ul>					The EMPr has not been updated. However, there is an apparent requirement to update the EMPr as there seems to be some errors in the designated responsibilities.	ECO	03 February 2023				

COMPLIANCE TO EA CONDITIONS												
EA Condition	Compliance				Recommendation/ Comments	Responsible	Action Date					
	С	OFI	NC	N/A		Person						
<ol> <li>The updated EMPr must contain recommendations to rectify the shortcomings identified in the enviroentmal audit report.</li> </ol>					The EMPr has not been updated.	ECO	03 February 2023					
13. The updated EMPr must be submitted to the Department for approval together with the environmental audit report, as per Regulations 34 of GNR 982, The updated EMPr must have been subjected to a public participation process, which process has been agreed to by the Department, prior to submission of the updated EMPr to the Department for approval.					The EMPr will be submitted to the department once it has been submitted.	ECO	03 February 2023					
Monitoring         14. The applicant must appoint an independent					An ECO was appointed, and the appointment letter							
Environmental Control Officer (ECO) for the construction phase of the development that will					was sent to DFFE.	Applicant	03 August 2022					

COMPLIANCE TO EA CONDITIONS												
EA Condition		Com	pliance	)	Recommendation/ Comments	Responsible	Action Date					
	С	OFI	NC	N/A		Person	Action Date					
have the responsibility to ensure that the					The weekly reports are submitted to the ECO by the							
mitigation/rehabilitation measures and					EO on any incidents and transgressions.							
recommendations referred to in this environmental												
authorisation are implemented and to ensure												
compliance with the provisions of the approved												
EMPr.												
14.1 The ECO must be appointed before												
commencement for any authorised activities.												
14.2 Once appointment, the name and contact												
details of the ECO must be submitted to the												
Director: Compliance monitoring of the Department												
at Directorcomplience@environment.go.za												
14.3 The ECO must keep record of all activities on												
site, problems identified, transgressions noted and												
a task scheduled of tasks undertaken by the ECO.												

	COMPLIANCE TO EA CONDITIONS												
EA Condition		Com	pliance	)	Recommendation/ Comments	Responsible	Action Date						
	С	OFI	NC	N/A		Person	Action Bute						
14.4 The ECO must remain employed until all													
rehabilitation, as required for implementation due													
to construction damage, are completed and the													
site ready for operation.													
Recording and Reporting to the Department													
15. All documentation e.g. audit/monitoring/compliance													
reports and notifications, required to be submitted													
to the Department in terms of this environmental					The ECO has already sent communication to the	500	24 January						
authorisation, must be submitted to the Director					directorate.	ECO	2023						
Monitoring of the Department at													
Directorcompliance@environment.gov.za.													

COMPLIANCE TO EA CONDITIONS												
EA Condition	Compliance				Recommendation/ Comments	Responsible	Action Date					
	С	OFI	NC	N/A	Recommendation/ comments	Person	Action Date					
16. The holder of the environmental authorisation must												
for the period during which the environmental												
authorisation and EMPr remain valid, ensure that												
project compliance with the conditions of the												
environmental authorisation and the EMPr are					Audits are done and submitted for monthly audits.	Applicant	03 Feb 23					
audited, and that the audit reports are submitted to												
the Director: Compliance Monitoring of the												
Department at												
Directocompliance@environment.gov.za												
17. The frequency of auditing and of submission of the												
environmental audit reports must be as per the					The audits are conducted monthly as required by the		02 Echruon					
frequency indicated in the EMPr, taking into account					EA, and the delays reported on the letter that was	ECO	03 February 2023					
the processes for such auditing as prescribed in					sent Department on 24 January 2023.		2023					
Regulation 34 of GNR 982.												

COMPLIANCE TO EA CONDITIONS											
EA Condition		Com	pliance	)	Recommendation/ Comments	Responsible	Action Date				
	С	OFI	NC	N/A		Person					
18. The holder of the EA must, in addition, submit an											
Environmental Audit Report to the Department											
within 30 days of completion of the construction					The construction activities are still underway.	ECO	03 February				
phase (i.e. within 30 days of site handover) and a					The construction activities are still underway.	200	2023				
final environmental audit report within 30 days of											
completion of rehabilitation activities.											
19. The environmental audit reports must be compiled											
in accordance with Appendix 7 of the 2014 EIA											
Regulations, as amended and must indicate the					The cudit reports are compiled as non Appendix 7 of		02 February				
date of the audit, the name of the auditor and the					The audit reports are compiled as per Appendix 7 of		03 February 2023				
outcome of the audit in terms of compliance with					the EIA regulations, 2014 (as amended)		2023				
the environmental authorisation conditions as well											
as requirements of the approved EMPr.											

	COMPLIANCE TO EA CONDITIONS											
EA Condition	Compliance				Recommendation/ Comments	Responsible	Action Date					
	С	OFI	NC	N/A		Person						
20. Records relating to monitoring and auditing must be kept on site and made available for inspection to any relevant and competent authority in respect of this development.					<ul> <li>The reports are kept on site:</li> <li>The weekly inspection</li> <li>Environmental legal audit Monthly</li> <li>These are conducted by Tractional and audited by</li> <li>Eskom EO.</li> <li>ECO audit will also be placed on site once available.</li> </ul>	Tractional EO Eskom EO	03 February 2023					
Notification to Authorities												
21. A written notification of commencement must be given to the Department no later than Fourteen (14) days prior to the commencement of the activity. Commencement for the purposes of this condition includes site preparation, The notice must include a date on which it is anticipated that					A written notification was submitted to the DFFE within 14 days prior to commencement.	Applicant	03 February 2023					

COMPLIANCE TO EA CONDITIONS											
EA Condition		Com	pliance	9	Recommendation/ Comments	Responsible	Action Date				
	С	OFI	NC	N/A		Person					
the activity will commence, as well as a reference											
number.											
Operation of the Activity											
Site Closure and Decommissioning											
22. Should the activity ever cease or become											
redundant, the holder of the authorisation must											
undertake the required actions as prescribed by					Not applicable	Applicant	03 February				
legislation at the time and comply with all relevant						Applicant	2023				
legal requirements administered by any relevant											
and competent authority at that time.											
Specific EA Conditions	•	•	•								

			COM	PLIANO	CE TO EA CONDITIONS		
EA Condition	Compliance				Recommendation/ Comments	Responsible	Action Date
	С	OFI	NC	N/A		Person	Abilon Buto
23. The holder of the EA must, prior to commencement of construction, inform this Department on the preferred technology or technology mixture of the BESS.					A letter informing the Department of the preferred technology was submitted on the 13 October 2022 to the department	Applicant	13 October 2022
24. The holder of the EA must ensure that the volume of dangerous goods on site does not exceed 500m <sup>3</sup>					The diesel bowser storing dangerous fuel is monitored to be kept at 300 liters and is always kept at the capacity of 300 liters.	Applicant	03 February 2023
25. Vegetation clearing must be limited to the required footprint for actual construction works and operational activities. Mitigation measures must be implemented to reduce the risk of erosion and the invasion of alien species.					Vegetation clearing was only limited to the required footprint.	Applicant	03 February 2023
26. No exotic plants must be used for rehabilitation purposes. Only indigenous plants occurring within a ten (10) kilometer radius of the development site must be utilized.					Not application. The rehabilitation process has not yet been undertaken.	Contractor	03 February 2023

			COM	PLIANC	E TO EA CONDITIONS		
EA Condition	Compliance				Recommendation/ Comments	Responsible	Action Date
	С	OFI	NC	N/A		Person	Action Date
27. Should any potential human remains be encountered during construction, work in the immediate vicinity of the find must be stopped and the KwaZulu-Natal AMAFA and Research Institute and SAPS must be notified.					No human remains have been identified.	Applicant/ Contractor	03 February 2023
28. No heritage material will be removed or relocated without confirmation from KwaZulu-Natal AMAFA and Research Institute as well as an accredited heritage professional specialist.					No human remains have been identified.	Applicant/ Contractor	03 February 2023
29. A horticultural specialist must be appointed to identify and relocate sensitive plant species prior to any site works.					The horticulturalist was not used but a Botanist.	Applicant	03 February 2023
30. An ongoing Alien invasive Management Plan must be compiled and implemented prior to construction activities.					The invasive plants were removed but no evidence of appropriate disposal was provided by the	Applicant	03 February 2023

COMPLIANCE TO EA CONDITIONS												
EA Condition		Com	pliance	9	Recommendation/ Comments	Responsible Person	Action Date					
	С	OFI	NC	N/A			Action Bate					
					contractor. The contractor was given 14 days to correct the situation.							
31. A Landscape Plan must be submitted to the Msunduzi Municipality: Environmental Management Unit for comment and approval prior to site works commencing.					A letter was sent to Msunduzi Municipality, and it was approved. The letter from the municipality was obtained. Letter to be sent to ECO.	Applicant	03 February 2023					

COMPLIANCE TO EA CONDITIONS													
EA Condition		Com	pliance	)	Recommendation/ Comments	Responsible	Action Date						
	С	OFI	NC	N/A		Person							
32. A species relocation plan must be compiled and submitted to the Msunduzi Municipality: Environmental Management Unit for comment and approval prior to site works commencing.					A letter was sent to Msunduzi LM and was approved.								

COMPLIANCE TO EA CONDITIONS													
EA Condition	Compliance				Recommendation/ Comments	Responsible	Action Date						
	С	OFI	NC	N/A	Recommendation/ comments	Person	Action Dute						
33. A storm water management plan must be submitted													
to Msunduzi Municipality: Environmental													
Management Unit as well as the Msunduzi Roads													
and Drainage Management Unit for comment and													
approval prior to any site works commencing. The													
Storm Water Management Plan must address the					The stormwater management plan was								
impacts associated with the increase in hardened					submitted and approved by the Msunduzi	Annlinent							
surface area and must address quantity and quality					Municipality. Approval letter to be sent to the	Applicant							
of the storm water discharged from the site and					ECO.								
incorporate on-site storm water attenuation													
measures to ensure the proposed development is													
flood neutral. Post development storm water													
discharge volumes must not exceed pre-													
development volumes.													

COMPLIANCE TO EA CONDITIONS										
EA Condition	Compliance				Recommendation/ Comments	Responsible	Action Date			
	С	OFI	NC	N/A	Recommendation/ comments	Person	Action Date			
34. Once the final technology alternative is selected, a					The submission for consideration was done on					
detailed fire management and protection plan must					1 August 2022. But the response from the					
be compiled and submitted to the relevant					Municipality was only received on 20 November	Applicant	03 August 2022			
Municipality for consideration prior to undertaking					2022. While the commencement was on or					
any construction activities.					around the 1 <sup>st</sup> of November 2022.					
GENERAL CONDITIONS	•									
35. A copy of this Environmental Authorisation, the										
audit and compliance monitoring reports, and the										
approved EMPr, must be made available for										
inspection and copying:							02 February			
30.1 At the site of the authorised activity.					Copies are available on site and website.	Applicant	03 February			
30.2 To anyone on request; and							2023			
30.3 Where the holder of the environmental										
authorisation has a website, on such publicly										
accessible website.										

# Table 3: Compliance to the EMPr

COMPLIANCE TO THE EMPR CONDITIONS											
EMPr Condition	Compliance		liance	Recommendation/Comments	Responsible	Action Date					
	с	OFI NC NA			Person						
General Construction Activities											
Environmental signage must be displayed on site including "no smoking", "fire hazards", etc.				Proper signage was available on site. Please refer to the attached photographic evidence.	Contractor	03 February 2023					
Emergency numbers must be clearly displayed				Emergency numbers are clearly displayed.	Contractor	03 February 2023					
Access fuel and other equipment stores must be strictly controlled				Access fuel and other equipment stores are strictly controlled.	Contractor	03 February 2023					
Clearing of the Site											
The Contractor must do an initial alien plant clearance and three follow up clearances.				Alien plant clearance was undertaken as specified by the alien invasive management plan.	Contractor	November 2022					

COMPLIANCE TO THE EMPR CONDITIONS											
EMPr Condition	Compliance			Recommendation/Comments	Responsible	Action Date					
	С	OFI	NC	NA		Person					
Site clearing must be limited to only the area designated for the specified works.					Site clearance was only undertaken within the site area.	Contractor	03 February 2023				
"No-go" areas prior to earthworks commencing					The no-go areas were clearly barricaded	Contractor	03 February 2023				
No unauthorized entry, stockpiling, dumping or storage of equipment in "no-go" areas, or outside the site boundary.					Access to the site is controlled by a security guard. All activities are kept within the site boundary.	Contractor	03 February 2023				
Earthworks											
The earthworks operation must be carried out by a suitably qualified contractor.					The qualifications of the Contractor were submitted to the ECO	Contractor	03 February 2023				
		Stor	age, m	ixing, ar	nd disposal of cement and concrete						

COMPLIANCE TO THE EMPR CONDITIONS											
EMPr Condition	Compliance			Recommendation/Comments	Responsible	Action Date					
	С	OFI	NC	NA		Person					
Clean stormwater must be kept away from areas where it could be contaminated and must be directed to the stormwater drainage system					Clean stormwater is kept away from areas where it could be contaminated and must be directed to the stormwater drainage system	Contractor	03 February 2023				
	Soil Erosion										
Vegetation must not be removed unnecessarily					No vegetation was removed unnecessarily.	Contractor	03 February 2023				
Soil erosion measures must be placed on sensitive areas like banks, slopes and towards the site boundary.					Soil erosion measures were undertaken.	Contractor	03 February 2023				
All stockpiles must be covered with suitable material to prevent loss of sediment via wind/ water.					A portion of the topsoil was not covered. The contractor was advised to address the matter as soon as possible.	Contractor	03 February 2023				

COMPLIANCE TO THE EMPR CONDITIONS									
EMPr Condition	Compliance			Recommendation/Comments	Responsible	Action Date			
	С	OFI	NC	NA		Person			
Topsoil (top 300mm layer minimum) must be removed prior to the construction by earthmoving equipment. Topsoil must be stored in heaps of not higher than 2m in a way that prevents damming. Stored topsoil must not be compacted.					The topsoil heaps were not higher than 2m.	Contractor	03 February 2023		
Topsoil must not be used as fill material for backfilling of excavations on site.					Topsoil was not used as fill material for backfilling of excavations on site.	Contractor	03 February 2023		
Disturbed sites must be rehabilitated as soon as construction in an area is complete and not left until the end of the project to be rehabilitated.					Not applicable as the rehabilitation process has not commenced.	Contractor	03 February 2023		
Ground water and Surface water pollution									
An adequate number of chemical toilets for the staff must be provided and serviced regularly. The positioning of the toilets must be authorized by the ECO.					Sufficient toilets were provided, and proof of service was provided.	Contractor	03 February 2023		

	COMPLIANCE TO THE EMPR CONDITIONS										
	EMPr Condition	Compliance			Recommendation/Comments	Responsible	Action Date				
		С	OFI	NC	NA		Person				
gro	lls that result in the contamination of und and/or surface water must be orted immediately to the ECO.					No spillages were recorded on the day of the audit.	Contractor	03 February 2023			
	lls must be managed in the following nner:					No spillages were recorded on the day of the audit.	Contractor	03 February			
$\checkmark$	Stop the spill							2023			
$\checkmark$	Contain the spill										
✓	Report significant spills to DWS and the Local Municipality Water and Sanitation Department.										
~	Remove spilled material for treatment/disposal.										
~	Determine any possible impact to soils, groundwater, storm water, etc.										
~	Undertake any necessary remedial actions										
✓	Document the spill										
~	Employees involved in spill control must be using PPE										

COMPLIANCE TO THE EMPR CONDITIONS										
EMPr Condition	Compliance				Recommendation/Comments	Responsible	Action Date			
	С	OFI	NC	NA		Person				
					Cleaning on-site					
A chemical spill kit must be present onsite at all times and once used it must be disposed of at a registered hazardous landfill site.					A chemical spill kit was present on site. Please refer to the attached photographic evidence.	Contractor	03 February 2023			
			Gene	ration of	f general and domestic waste					
Refuse bins must be provided for domestic waste (lunch litter) and placed in designated eating areas and any other areas where deemed necessary to control littering.					Sufficient refuse bins were provided properly labelled.	Contractor	03 February 2023			
Refuse bins must not overflow and must be emptied regularly. No littering is permitted on site.					The refuse bins were not overflowing on the day of the audit.	Contractor	03 February 2023			
Building rubble must be kept separate from other construction waste.					No construction rubble was found in the refuse bins.	Contractor	03 February 2023			

COMPLIANCE TO THE EMPR CONDITIONS										
EMPr Condition		Comp	liance		Recommendation/Comments	Responsible	Action Date			
	С	OFI	NC	NA		Person				
All waste must be disposed of at approved landfill sites, no burning or burying is permitted.					Waste is disposed of at the New England landfill site.	Contractor	03 February 2023			
Visual Quality										
The site must be well maintained and neat.					The site was found to be neat on the day of the audit.	Contractor	03 February 2023			
	Public safety and health									
First aid kits must be available on site as well as an incident records file					The first aid kit was available on site	Contractor	03 February 2023			
Interaction with objecting parties at the site must be well documented. A complaints register must be readily available on site. Interaction with external parties must be courteous.					No complaints were recorded on the complaints register	Contractor	03 February 2023			

# ENVIRONMENTAL AUDIT REPORT FOR THE PROPOSED ESKOM HOLDINGS (SOC) LIMITED BATTERY ENERGY STORAGE SYSTEM (BESS) ELANDSKOP SUBSTATION

JANUARY 2023

## 4. PHOTOGRAPHIC EVIDENCE OF THE FINDINGS

Figure 1: Proper signage well implemented on site.



Figure 2: Evidence of a waste bin containing the designated waste type



# ENVIRONMENTAL AUDIT REPORT FOR THE PROPOSED ESKOM HOLDINGS (SOC) LIMITED BATTERY ENERGY STORAGE SYSTEM (BESS) ELANDSKOP SUBSTATION



Figure 3: Evidence of ablution facilities being well maintained

Figure 4: Evidence of sufficient waste bins on site





Figure 5: Evidence of the site being kept neat

Figure 6: Serviced Fire extinguishers were present on site





Figure 7: Evidence of the designated smoking area

Figure 8: Evidence of the first aid kit being present on site



## 5. RECOMMENDATIONS

It is recommended that the EMPr be amended to correct some areas in it. The following are some of the corrections:

- ECO given responsibility to keep record of incidents occurring on site. This should be amended as it is not feasible for the ECO to do this given that he only does the site once on a monthly basis.
- ECO to conduct monthly training for new and old staff/workforce to keep environmental awareness fresh and alive.

# 6. CONCLUSION

The site was found to be in a satisfactory condition on the day of the audit. All the non-compliance were addressed, and both the contractor and applicant have the responsibility to ensure that the identified non-compliances are rectified before the next audit report which is set to take place on the 10<sup>th</sup> of February 2023.