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



REPORT Number: 8 for June 2023DEA REFERENCE NO. 14/12/16/3/3/1/2114/AM2



Prepared for: Eskom Holdings SOC Limited

Contact: Tshililo Nekhalale

Email: NekhalT@eskom.co.za

Submitted by:



I. DETAILS OF THE ENVIRONMENTAL AUDIT REPORT AUTHOR

SENKOSI ENVIRONMENT	TAL CONSULTANTS
NAME OF AUTHOR	Mr. Sipho Zulu
DESIGNATION	Environmental Compliance Officer (eco)
QUALIFICATIONS	BSc Enviro. Man (UWC); 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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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;

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- 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
- 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: 09/06/2023

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1. INTRODUCTION

Senkosi Environmental Consulting, is the appointed independent Environmental Control Officer (ECO) for the proposed Eskom Holdings (Soc) Limited Battery Energy Storage System (Bess) Elandskop Substation. The project is located within Msunduzi and Mpendle Local Municipalities, KwaZulu-Natal province conducted the eighth audit on the 09th of June 2023. This environmental audit report is 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 audit findings which was conducted against the Environmental Authorization (EA) issued by the Department of Forestry, Fisheries and Environment (DFFE) and 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/AM2** 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 that 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.

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

1.3 Requirements for Environmental Auditors

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 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

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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 past 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 Authoritarians and Water use licenses in his career. For more information, a CV is attached with more details of his capabilities and expertise.

1.4.1 CVs and Declarations of Independence

Comprehensive CV for the environmental auditors is attached in **Annex B**.

1.5 Environmental Audit Methodology

Senkosi Environmental performed an independent assessment of the Elandskop BESS compliance against the EA and the 2020 EMPr conditions. Preparations of the Audit was initiated by communicating with the EO on site. Proposed tentative dates of schedule was adopted to be used as a guide to audit dates throughout the construction project phase.

The team was on site and commenced the meeting at 10:40, the meeting discussed the approach of the audit for the day. The Audit was preceded by an office file inspection that took place on 8 June 2023 the aim of the office file inspection was to peruse and ensure that all required documents are on site and well represented as per EA and EMPR requirement. A separate report on the findings of the office inspection exercise is attached as annexure The Eskom EO was not available to attend the audit meeting since her resignation there was no replacement for her. Tractionel EO attended the audit session in order to ensure the audit is conducted. The attendance register was completed by attendees. See attached appendix showing the attendance register. The key delivery milestones for the Environmental Audit are presented below:

Table 1: Schedule and action dates

Engagement Milestones	Delivery Date
Initiation of Communication for Audit Plan	22 November 2022
Site visit and initial list of audit findings	09 June 2023
Draft Audit Report submitted to client	14 June 2023
Receipt of comments & review of draft report from Client	15 June 2023
Final Audit Report	16 June 2023
Report Close out	16 June 2023

2. SITE CONSTRUCTION ACTIVITIES ON AUDIT WEEK

- Batteries started arriving on site from 15 May 2023.
- Assembling of cable Rags continued;
- Excavation for the water channel and placement of the water channels continued;
- Back filling of the control room building and construction continued;
- Inner walls were erected and nearing completion;
- Earth bolts were installed and continued:
- Newley delivered batteries aware installed;
- Battery delivery was continued;
- Waste resulting from new delivered battery was continuously managed.

3. SUMMARY OF MAIN FINDINGS

The environmental audit for the month of June was conducted on the 9th of June 2023. During the audit, few non-compliance and compliance points were noted. Some non-compliance issues included; the mixture or waste (wood, steel scrap, etc) at the back the site offices still not removed. This is after a warning given to the developer for lengthy period but to no positive response. An NCR will be raised to this effect should the compliance inspection to be held on 13 July 2023 find the situation not changed. A report concerning what appeared like a leak from the ablution, was not yet received.

However, there were more compliance points observed than non-compliance. Among the compliance points are; well-maintained landscape, well cut grass (except for the waste outside the back office) proper demarcation of 'No Go' areas; plastic or hard surface separating cement mixing from the soil; maintenance of good access control at the gate; "No Fire" area signage; demarcated smoking area zones clearly marked; frequent general waste management disposal resulting from the new battery delivery. More compliance points are discussed in the table attached.

3.1. Non-Compliances

The recorded non-compliances were as follows:

- ✓ Inappropriate waste management was identified on site (the grass, steel, and wooden waste at the back of the site was still not disposed, since the beginning of the construction phase);
- ✓ The use of the horticulture remained a non-complaint, as a Botanist was used instead of a Horticulturalist;
- ✓ The hazardous waste is still on site not yet disposed, pending some document requirements from the land ill site to illustrate proper registration as hazardous landfill.
- ✓ Some general waste receipts had no tonnages owing on the apparent non-functional way bridge at the landfill.

3.2. COMPLIANCES

- ✓ Good landscape and garden maintained was well managed;
- ✓ Topsoil was properly covered and in compliance;
- Cement mixing was contained within the area with plastic to avoid soil contamination;
- ✓ Used cement packages kept in the hazardous bin for proper disposal;
- ✓ The access control to the tools and equipment was well maintained and locked with key at the supervisor's disposal:
- ✓ The "No go areas" were clearly marked including smoking area well demarcated.

4. COMPLIANCE MONITORING

The compliance monitoring was done in line with the approved EMPr and EA. A summary of percentages is given at the end of the report showing compliance.

Table 2: 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 3: Compliance to the EA Conditions

COMPLIANCE TO EA CONDITIONS							
EA Condition		nplian	ce		Recommendation/ Comments	Responsible Person	Action Date
	С	OFI	NC	N/A			
Scope of Authorization							
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					Construction bricks and water drainage culverts were removed form an unauthorised area. Thus, retaining a compliance status.	Applicant	09 June 2023

4 November

2022.

Applicant

COMPLIANCE TO EA CONDITIONS Compliance **EA Condition Recommendation/ Comments Responsible Person Action Date** OFI NC N/A 3. Any changes to, or deviations from, the project description set out in this authorization must be approved, in writing, by 09 June 2023 There is no deviation from the project description. Applicant the Department before such changes or deviations may be affected. 4. The holder of an EA must apply for an amendment of the A letter from DFFE approving the change of name EA with the Competent Authority (CA) of any alienation, of property ownership for the application was 22 Nov 2022 Applicant presented. Ms. Tshililo Nekhalale has been transfer and change of ownership rights in the property on which the activity is to take place. appointed the new property representative. 5. This activity must commence within a period of five (5) The activity commenced on 4 November 2022

and the EA was issued on 19 June 2020.

Therefore, the activity commenced within a

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

COMPLIANCE TO EA CONDITIONS Compliance **EA Condition Recommendation/ Comments Responsible Person Action Date** OFI NC N/A period of five (5) years from the date of issue of application for environmental authorization must be made this environmental authorization. for the activity to be undertaken. 6. Commencement with one activity listed in terms The commencement of the activity was on the 4th of this environmental authorisation constitutes **Applicant** 09 June 2023 of November 2022. A letter was sent to the DFFE. commencement of all authorised activities. The I&APs were notified about the decision to 7. The holder of the EA must notify interested and affected authorize the activity within 14 days of the issue party (I&AP), in writing and within twelve (14) calendar days of the EA. The EA was issued on the 19th of June **Applicant** 24 June 2020 of the date of the EA of the decision to authorize the activity. 2020 and the I&APs were notified on 24 June The notification must comply with the said conditions. 2020.

COMPLIANCE TO EA CONDITIONS							
EA Condition		Compliance			Recommendation/ Comments	Responsible Person	Action Date
	С	OFI	NC	N/A			
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 condition is not applicable in this phase.	Applicant	9 June 2023
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	I	1	!				
The authorised activity must not commence until the period of the submission of appeals has lapsed as per the National					No appeal has been lodged.	Applicant	09 June 2023

COMPLIANCE TO EA CONDITIONS											
EA Condition		mpliand	се		Recommendation/ Comments	Responsible Person	Action Date				
	С	OFI	NC	N/A		·					
Appeal Regulations, 2014. In terms of section 43(7), an											
appeal under section 43 of the National Environmental											
Management Act, 1998 will suspend the environmental											
authorisation or any provision or condition attached thereto.											
In the instance where an appeal is lodged you may not											
commence with the activity until such time that the appeal											
has been finalised.											
10. The Environmental Management Programme (EMPr)					The contractor/Applicant failed to clean the waste						
submitted as part of the Application for EA is hereby					pile behind the site. An NCR is considered	Angliaant	00 1 2002				
approved. This EMPr must be implemented and strictly					address the waste management issue behind the	Applicant	09 June 2023				
adhered to.					office.						
	1										

COMPLIANCE TO EA CONDITIONS							
EA Condition	Con	OFI	nc NC	N/A	Recommendation/ Comments	Responsible Person	Action Date
Frequency and process of updating the EMPr							
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.					There is no plan to amend of the EMPr.	ECO	09 June 2023
12. The updated EMPr must contain recommendations to rectify the shortcomings identified in the environmental audit report.					The EMPr has not been updated.	ECO	09 June 2023
13. The updated EMPr must be submitted to the Department for approval together with the environmental audit report,					The EMPr has not been updated.	ECO	09 June 2023

COMPLIANCE TO EA CONDITIONS							
EA Condition		npliand	ce		Recommendation/ Comments	Responsible Person	Action Date
	С	OFI	NC	N/A		·	
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.							
Monitoring			<u> </u>				
14. The applicant must appoint an independent Environmental					An ECO was appointed, and the appointment		00 4 4
Control Officer (ECO) for the construction phase of the					letter was sent to DFFE.		03 August
development that will have the responsibility to ensure that						Applicant	2022
						••	
recommendations referred to in this environmental							09 June 2023
the mitigation/rehabilitation measures and							09 June :

EA Condition		nplian	ce		Recommendation/ Comments	Responsible Person	Action Date
		OFI	NC	N/A			
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					The weekly reports are viewed by ECO from the		
Directorcomplience@environment.go.za					EO for incidents and transgressions.		
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		npliand	ce		Recommendation/ Comments	Responsible Person	Action Date			
	С	OFI	NC	N/A		•				
14.4 The ECO must remain employed until all rehabilitation,					ECO is appointed until Rehabilitation is					
as required for implementation due to construction					completed.					
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 authorisation,					The ECO submits the reports on monthly basis.	ECO	09 June 2023			
must be submitted to the Director Monitoring of the										
Department at Directorcompliance@environment.gov.za.										
16. The holder of the environmental authorisation must for the					Audit reports are done and submitted to the	Applicant	00 June 2022			
period during which the environmental authorisation and					Authority on monthly basis.	Applicant	09 June 2023			

COMPLIANCE TO EA CONDITIONS Compliance **EA Condition Recommendation/ Comments Responsible Person Action Date** N/A OFI NC EMPr remain valid, ensure that project compliance with the conditions of the environmental authorisation and the EMPr are 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 frequency Monthly reports are submitted to the relevant unit ECO 09 June 2023 indicated in the EMPr, taking into account the processes for at DFFE. such auditing as prescribed in Regulation 34 of GNR 982. 18. The holder of the EA must, in addition, submit an Environmental Audit Report to the Department within 30 The construction activities are still underway. ECO 09 June 2023 days of completion of the construction phase (i.e., within 30

COMPLIANCE TO EA CONDITIONS Compliance **EA Condition Recommendation/ Comments Responsible Person Action Date** NC N/A OFI days of site handover) and a 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 date of the audit, the The audit reports are compiled as per Appendix 7 09 June 2023 name of the auditor and the outcome of the audit in terms of the EIA regulations, 2014 (as amended) of compliance with the environmental authorisation conditions as well as requirements of the approved EMPr.

EA Condition	Cor	mplian	ce		Recommendation/ Comments	Responsible Person	Action Date
	С	OFI	NC	N/A			
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.					 The reports are kept on site: The weekly inspection Environmental legal audit Monthly These are conducted by Tractionel and audited by Eskom EO. Audit reports by the ECO audit are placed on site to be accessed by anyone. 	Tractionel EO Eskom EO	09 June 2023
Operation of the Activity							

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COMPLIANCE TO EA CONDITIONS							
EA Condition	Cor	npliand	се		Recommendation/ Comments	Responsible Person	Action Date
	С	OFI	NC	N/A		·	
21. Should the activity ever cease or become redundant, the holder of the authorisation must undertake the required actions as prescribed by legislation at the time and comply with all relevant legal requirements administered by any relevant and competent authority at that time.					Not applicable, activity is on course.	Applicant	09 June 2023
Specific EA Conditions							
22. The holder of the EA must, prior to commencement of					A letter informing the Department of the preferred		
construction, inform this Department on the preferred technology or technology mixture of the BESS.					technology was submitted on 13 October 2022 to the department.	Applicant	09 June 2023

COMPLIANCE TO EA CONDITIONS

	Cor	npliano	20				
EA Condition	001	прпап	<i>.</i>		Recommendation/ Comments	Responsible Person	Action Date
	С	OFI	NC	N/A			
23. The holder of the EA must ensure that the volume of dangerous goods on site does not exceed 500m ³					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	09 June 2023
24. 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	09 June 2023
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 applicable. The rehabilitation process not yet undertaken.	Contractor	09 June 2023
26. Should any potential human remains be encountered during construction, work in the immediate vicinity of the					No human remains have been identified.	Applicant/	09 June 2023

COMPLIANCE TO EA CONDITIONS Compliance **EA Condition Recommendation/ Comments Responsible Person Action Date** N/A OFI NC find must be stopped and the KwaZulu-Natal AMAFA and Contractor Research Institute and SAPS must be notified. 27. No heritage material will be removed or relocated without Applicant/ confirmation from KwaZulu-Natal AMAFA and Research No human remains have been identified. 09 June 2023 Institute as well as an accredited heritage professional Contractor specialist. 28. A horticultural specialist must be appointed to identify and The horticulturalist was not used but a Botanist. **Applicant** 09 June 2023 relocate sensitive plant species prior to any site works. Complied with prior construction phase, but not 29. An ongoing Alien invasive Management Plan must be applicable no more, due to the construction **Applicant** 09 June 2023 compiled and implemented prior to construction activities. phase.

COMPLIANCE TO EA CONDITIONS Compliance **EA Condition Recommendation/ Comments** Responsible Person **Action Date** OFI NC N/A 30. A Landscape Plan must be submitted to the Msunduzi Requirement no more applicable due to the Municipality: Environmental Management Unit for **Applicant** 09 June 2023 current construction phase. comment and approval prior to site works commencing. 31. A species relocation plan must be compiled and submitted to the Msunduzi Municipality: Environmental Management Not applicable due to current phase. **Applicant** 09 June 2023 Unit for comment and approval prior to site works commencing. 32. A storm water management plan must be submitted to Msunduzi Municipality: Environmental Management Unit as well as the Msunduzi Roads and Drainage Management 09 June 2023 Not applicable due to current phase. Applicant Unit for comment and approval prior to any site works commencing. The Storm Water Management Plan must

COMPLIANCE TO EA CONDITIONS Compliance **EA Condition Recommendation/ Comments Responsible Person Action Date** N/A OFI NC address the impacts associated with the increase in hardened surface area and must address quantity and quality of the storm water discharged from the site and 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. 33. Once the final technology alternative is selected, a detailed fire management and protection plan must be compiled and Not applicable due to current phase. 09 June 2023 **Applicant** submitted to the relevant Municipality for consideration prior to undertaking any construction activities. **GENERAL CONDITIONS**

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COMPLIANCE TO EA CONDITIONS							
EA Condition	Coi	mpliand	e		Recommendation/ Comments	Responsible Person	Action Date
	С	OFI	NC	N/A			
34. A copy of this Environmental Authorisation, the audit and							
compliance monitoring reports, and the approved EMPr,							
must be made available for inspection and copying:					Copies available on site and the Eskom website		
34.1 At the site of the authorised activity.					excluded compliance and monitoring reports.	Applicant	09 June 2023
34.2 To anyone on request; and					Applicant to correct.		
34.3 Where the holder of the environmental authorisation							
has a website, on such publicly accessible website.							

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Table 4: Compliance to the EMPr

EMPr Condition	Coı	nplian	ce		Recommendation/Comments	Responsible Person	Action Date
	С	OFI	NC	NA			
General Construction Activities							
. Environmental signage must be displayed on site including "no smoking," "fire hazards," etc.					Proper signage was available and properly displayed on site.	ECO	09 June 2023
. Emergency numbers must be clearly displayed					Emergency numbers are clearly displayed but advise was made for a bigger font and paper to be used.	ECO	09 June 2023
. Access fuel and other equipment stores must be strictly controlled					Access fuel and other equipment stores are strictly controlled. Example the stores' access always locked and the bowser is always kept empty on site. It is used to bring fuel for the machinery and after filling them, it is kept empty.	ECO	09 June 2023

EMPr Condition	Compliance				Recommendation/Comments	Responsible	Action Date
	С	OFI	NC	NA		Person	
 The contractor must ensure that all employees, including sub-contractors and their employees, attend on-site Environmental Awareness Training prior to commencing work on site. 					Training attendance register was seen on site during the audit.	Contractor	09 June 2023
5. Follow-up Environmental Awareness Training must be conducted for new subcontractors or crews prior to commencing work or for specific activities that may potentially impact the environment, or if work is being undertaken in sensitive environments.					Not applicable, no work had a potential impact on environment conducted and there is no sensitive environmental area.	Contractor/ ECO	09 June 2023
6. The contractor must maintain accurate records of any training undertaken.					Training Awareness records are kept and monitored on site. Training on the World Environment Day was held on 7th June 2023.	Contractor	09 June 2023
7. The appointed Contractor must do an initial alien plant clearance and three follow up clearances.					Not applicable due to current phase.	Contractor/ECO	09 June 2023

EMPr Condition	Cor	nplian	ce			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 designated site area.	Contractor/ECO	09 June 2023
D. Training must cover all areas of EMPr and procedures to be followed, the sensitivity of the site and importance of adhering to "no go areas"					New personnel were trained on environmental awareness by the ECO on 11 May 2023.	ECO	09 June 2023
The ECO must monitor the contractor's compliance with the requirement to provide sufficient environmental awareness training to all site staff.					The attendance register of the latest training on 7th June was evident.	ECO	09 June 2023
11. "No-go" areas prior to earthworks commencing must be demarcated with danger tapes of protection for the duration of the construction phase.					The 'no-go' areas are clearly barricaded.	Contractor/ECO	09 June 2023

COMPLIANCE TO THE EMPR CONDITIONS							
EMPr Condition	Cor	npliano	ce		Recommendation/Comments	Responsible	Action Date
	С	OFI	NC	NA		Person	
12. No unauthorized entry, stockpiling, dumping or storage of equipment in "no-go" areas, or outside the site boundary is permitted.					Access to the site is controlled by a security guard at the gate. All activities are kept within the site boundary.	Contractor/ ECO	09 June 2023
Earthworks							
13. All construction activities, plant, labour, and materials must be restricted within the site boundary.					The site is now compliant to this, bricks outside precinct were removed.	Contractor/ECO	09 June 2023
14. Demarcation must remain in place for the duration of the work on site					All relevant areas for demarcated complied as required.	Contractor/ECO	09 June 2023
 Rehabilitation of disturbed areas must be undertaken within a month after construction activities have concluded. 					Note yet applicable, rehabilitation phase not yet commenced.	Contractor/ECO	09 June 2023

EMPr Condition	Compliance				Recommendation/Comments	Responsible	Action Date
	С	OFI	NC	NA		Person	
6. The earthworks operation must be carried out by a suitably qualified contractor.					The qualifications of the Contractor were seen and submitted to the ECO earlier	Contractor/ ECO	09 June 2023
Storage, mixing, and disposal of cement and concre	ete						
17. No mixing of concrete or cement directly on the ground is permitted. The mixing of concrete must only be done on a mixing tray or on impermeable sheeting.					Most mixed concrete is delivered by a truck, in a ready state. Any other small amount is mixed on an impermeable sheet separating cement from direct contact with the ground.	Contractor/ ECO	09 June 2023
8. Both used and unused cement bags must be stored in weatherproof containers so as not to be affected by rain or runoff.					Cement bags are kept in a weather prof container bin were seen during the audit visit.	Contractor/ ECO	09 June 2023
 Contaminated soil resulting from concrete or cement spills must be removed immediately after the spillage has occurred and placed on the appropriate rubble stockpile. 					No incidence was witnessed during June audit.	Contractor/ ECO	09 June 2023

EMPr Condition	Compliance				Recommendation/Comments	Responsible	Action Date
	С	OFI	NC	NA		Person	
20. 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	09 June 2023
Soil Erosion							
21. Vegetation must not be removed unnecessarily					No vegetation was removed unnecessarily.	Contractor /ECO	09 June 2023
22. Soil erosion measures must be placed on sensitive areas like banks, slopes and towards the site boundary.					There is no more need to put sandbags because the platform is now elevated and no slope anymore.	Contractor/ECO	09 June 2023
23. All stockpiles must be covered with suitable material to prevent loss of sediment via wind/ water.					The topsoil was covered and complied with the condition.	Contractor/ECO	09 June 2023
24. Topsoil (top 300mm layer minimum) must be removed prior to the construction by earthmoving equipment. Topsoil must be stored in heaps of not					The topsoil heap was kept to required heigh of 2m and less.	Contractor /ECO	09 June 2023

EMPr Condition	Compliance					Responsible	Action Date
	С	OFI	NC	NA		Person	
higher than 2m in a way that prevents damming. Stored topsoil must not be compacted.							
5. 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/ECO	09 June 2023
6. Disturbed sites must be rehabilitated as soon as construction is complete and not left until the end of the project to be rehabilitated.					Not applicable as the rehabilitation process has not commenced.	Contractor /ECO	09 June 2023
Ground water and Surface water pollution							
27. 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. The contractor was advised to make comments on the receipts and it was complied with.	Contractor	09 June 2023
8. Spills that result in the contamination of ground and/or surface water must be reported immediately to the ECO.					There was no witnessed incidence during June month audit.	Contractor	09 June 2023

MPr Condition	Cor	nplian	ce		Recommendation/Comments	Responsible	Action Date
	С	OFI	NC	NA		Person	
 Spills must be managed in the following manner: Stop the spill 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 					No spill was observed or recorded for June month audit.	Contractor	09 June 2023
 Employees involved in spill control must be using PPE 							

EMPr Condition	Cor	nplian	ce		Recommendation/Comments	Responsible Person	Action Date
	С	OFI	NC	NA			
 A chemical spill kit must be always present onsite and once used it must be disposed of at a registered hazardous landfill site. 					A chemical spill kit was present on site.	Contractor	09 June 2023
eneration of general and domestic waste							
 Refuse bins must be provided for domestic waste (lunch litter) and placed in designated eating areas and any other areas were deemed necessary to control littering. 					Bin was placed at the dining area.	Contractor	09 June 2023
Refuse bins must not overflow and must be emptied regularly. No littering is permitted on site.					Refuse bins were well managed and emptied on frequently.	Contractor	09 June 2023
Building rubble must be kept separate from other construction waste.					The construction rubble was disposed of at the New England landfill site. Proof of disposal was provided.no building rubble was found on site yet again on audit day.	Contractor	09 June 2023

EMPr Condition		nplian	ce		Recommendation/Comments	Responsible	Action Date
	С	OFI	NC	NA		Person	
34. All waste must be disposed of at approved landfill sites, no burning or burying is permitted.					Waste was disposed of at the New England landfill site.	Contractor	09 June 2023
Visual Quality							
35. The site must be well maintained and neat.					The site is well maintained except for the long waste at the back of the office.	Contractor	09 June 2023
Public safety and health							
36. First aid kits must be available on site as well as an incident records file					The first aid kit was available on site during the audit session. A minor injury was reported, the report to be sent to the ECO.	Contractor	09 June 2023
B7. 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.					On the 31st May there was an issue with the community that led to the closure of the site and was only opened on 7th June 2023. The issue was resolved by a meeting held with the relevant parties.	Contractor	09 June 2023

5. PHOTOGRAPHIC EVIDENCE OF THE FINDINGS

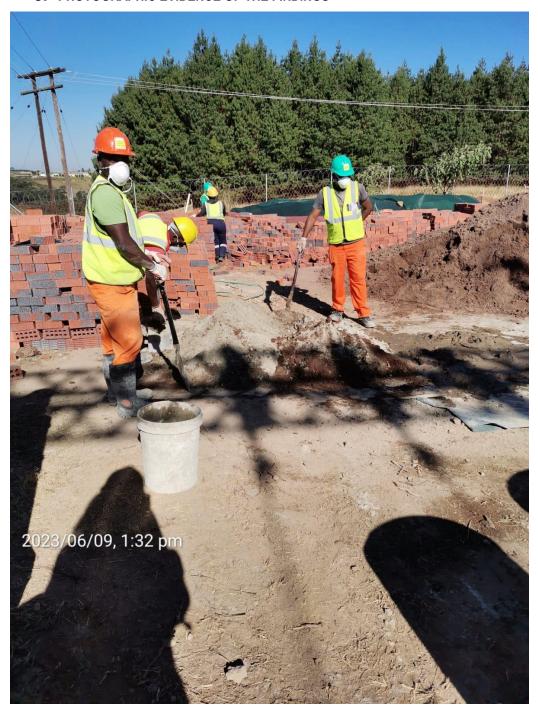


Figure 1: Cement mixed on plastic to prevent soil contamination



Figure 2: Generated waste yet to be disposed

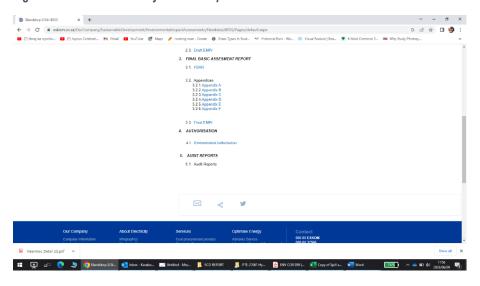


Figure 3: Audit reports not kept on Eskom website



Figure 4: Mixed waste not collected at the back of the site office since start of construction



Figure 5: Drinking water placed for the working team



Figure 6:Site Garden and landscape well maintained



Figure 7: Evidence of proper allocated laydown site



Figure 8: No go areas properly demarcated



Figure 9: Soil erosion measures using curbing bricks evident



Figure 10: Evidence of generated waste material to be disposed

6. RECOMMENDATIONS

- It is recommended that the contractor or developer be liable for a fine in line with the EMPr recommendations for the non-waste management that has been onsite since the commencement of construction phase.
- The ECO will raise an NCR should the outstanding issues not resolved by 13 July 2023.

7. PERCENTAGE COMPLIANCE STATUS

Percentage compliance status indicates that **compliance** is **63.3** % while **non-compliance** is **4.22** % **not** applicable is **30.98** % and **opportunity for improvement** is **1.40** % for the month of June 2023.

Table 5: Rating compliance in percentages.

Rating	Description	Abbreviation	Number	%	
Compliance	Fully Complying	С	45	63.3	
Opportunity for Improvement	Complying with fraction of the	OFI	1	1.40	
(to comply)	conditions				

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

June 2023

Non-Compliance	Not Complying to any of the conditions	NC	3	4.22
Not Applicable	Conditions that are not applicable at the time of inspection	N/A	22	30.98
Total aspects EMPr and	71	99		

8. CONCLUSION

The site was found to be in a relatively satisfactory condition on the day of the audit on 9 June 2023. 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 14th of July 2023. The Developer has no representative EO site since March 2023. This is in contravention with the EA and EMPr conditions that the EO for the Developer be on site.

9. APPENDICES

- 9A Appendix A: Incidence Report
- 9 B Appendix B: Attendance register for the audit team
- 9 C Appendix C: Attendance register for the trained members on 11 May 2023.
- 9 D Appendix D: Incidence Report for minor Spillage
- 9 E Appendix E: Non-Compliance Report (NRC)
- 9F Appendix E: Curriculum Vitae