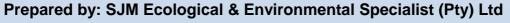


MONTHLY ENVIRONMENTAL COMPLIANCE AUDIT
REPORT for the PROPOSED ESTABLISHMENT OF THE
Pongola Battery Energy Storage System, within the
jurisdiction of the Uphongolo Local Municipality
(KwaZulu-Natal)
October 2023



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DECLARATION

- I, Rofhiwa Mukhudi declare that:
 - I act as the independent ECO in this project;
 - I will perform the work relating to the project objectively, even if this results in views and findings that are not favourable to the proponent;
 - I declare that there are no circumstances that may compromise my objectivity in performing such work;
 - I have expertise in conducting the ECO work relevant to this project, including knowledge of the Act (NEMA), regulations and any guidelines that have relevance to the proposed activity;
 - I will comply with the Act, regulations, and all other applicable legislation.
 - I have no, and will not engage in, conflicting interests in the undertaking of the activity;
 - I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing any decision to be taken concerning the application by the competent authority; and the objectivity of any report, plan, or document to be prepared by myself for submission to the competent authority;
 - All the particulars furnished by me in this report are true and correct; and
 - I realise that a false declaration is an offence in terms of Regulation 71 and is punishable in terms of Section 24F of the Act.



Rofhiwa Mukhudi

Pongola BESS ECO

SJM Ecological & Environmental Specialists

October 2023

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1. PURPOSE

SJM Ecological & Environmental Specialists as an independent environmental consultant has been appointed by Eskom Holdings SOC Limited to carry out the environmental monitoring & Auditing for the construction of a Battery Energy Storage System (BESS) at Pongola within the Uphongola Local Municipality (KwaZulu-Natal Province)

Eskom Holdings SOC Limited has identified distributed storage as an alternative to support renewable energy expansion in South Africa. Electricity generation from renewable sources is limited by the intermittency and variability of wind and solar resources, i.e. when wind blows and sun shines. Energy storage allows for the storing of electricity for later use even when the renewable resource is unavailable. The process involves the conversion of electrical energy into another form of energy such as chemical or kinetic energy, store it temporarily and then converted back to electrical energy, therefore giving the utility considerable flexibility and control.

The Distribution Battery Energy Storage project will directly contribute towards the following three (3) Eskom's strategic objectives:

- Ensure reliable supply of electricity to all South Africans;
- Securing adequate future electricity supply at the optimal cost of renewable energy for South Africa; and
- Directly and indirectly supporting the socio-economic development objectives of South Africa.

Eskom will be faced with massive loan recalls and contract penalties if this project does not go-ahead. The World Bank and co-financiers approved distributed battery energy storage and Solar PV as an alternative to support renewable energy expansion in South Africa and to replace the terminated Kiwano CSP 100MW project. The Kiwano CSP (Concentrating Solar Power) plant project has been deemed too expensive to consider at this stage.

This progress report is for construction phase of the BESS for the Month of October 2023.

1.1. EXPERTISE OF THE ENVIRONMENTAL ASSESSMENT PRACTITIONER

The Environmental regulation - Government Notice 982 of 2014, specifically requires practitioners involved in the EIA process to list their qualifications and expertise in the report. An Environmental Assessment Practitioner (ECO) appointed in terms of Regulation 12 (1) or 12 (2) of Government Notice 982 of 2014 is required to:

- Be independent
- Have expertise in conducting environmental impact assessments including knowledge of the Act, these regulations and any guidelines that have relevance to the proposed activity
- Perform the work relating to the application in an objective manner, even if this
 results in views and findings that are not favourable to the applicant
- Comply with the Act, these regulations and all other applicable legislation
- Take into account, to the extent possible, the matters listed in Regulation 18 of Government Notice 982 of 2014 when preparing the application and
- Disclose to the applicant and the competent authority all material information in the
 possession of the ECO that reasonably has or may have the potential of influencing
 any decision to be taken with respect to the application by the competent authority
 in terms of these regulations or the objectivity of any report, plan or document to
 be prepared by the EAP in terms of these regulations for submission to the
 competent authority.
- The table below lists the ECO involved in this project.

1.2. Details of the ECO

Name	Mukhudi Rofhiwa
Company	SJM ECOLOGICAL & ENVIRONMENTAL SPECIALISTS PTY
	LTD
Physical Address	Unit 56 Seoul43 Mulder Street, Centurion 0157
Postal Address	Unit 56 Seoul43 Mulder Street, Centurion 0157
Telephone Number	012 681 4037
Cell	072 655 1332
E-mail	mukhudiholdings@gmail.com
Role in Project	Environmental Control Officer

Mukhudi Rofhiwa is a qualified and experienced Environmental Control officer with 10 years of experience on various environmental monitoring projects that include construction projects.

1.3. Detail of Client

Name	Whitney Gabriel (Representative of Proponent)
Company	Eskom Holdings SOC Limited
Physical Address	Eskom Holdings SOC Limited I KZN Operations Un.
Telephone number	+27 31 710 5159
Cell	+27 81 371 3317
Email	GabrieWD@eskom.co.za
Role in Project	Eskom environmental Officer

2. PROJECT DESCRIPTION

2.1. Environmental Monitoring

SJM Ecological & Environmental Specialists as an independent environmental consultant has been appointed by Eskom Holdings SOC Limited to carry out the environmental monitoring & Auditing for the construction of a Battery Energy Storage System (BESS) at Pongola within the Uphongola Local Municipality (KwaZulu-Natal Province)

2.2. Persons Responsible for the Implementation of the EMPR

The following persons will be responsible for the implementation of the EA & EMPR:

- Eskom Project Manager (PM)
- Environmental Control Officer (ECO)
- Main Contractor (C)
- Sub-contractors

2.3 LEGISLATIVE REQUIREMENTS

The BESS development project will be guided and governed by Legislative Acts and guidelines such as those shown in table 1 below.

Table 1: Environmental statutory requirements

ACT	ACT NO	REMARKS
Atmospheric	45 of	Controls all forms of air pollution.
pollution prevention	1965	-Smoke control zones
Act		-Dust control
		-Air pollution from waste
National Forest Act	84 of	Provides measures for the protection of certain forests and
	1998	trees
Advertising on	21 of	Prohibits the depositing or leaving of certain articles or
roads and ribbon		materials near certain roads
development Act		-Structures near roads
		-Waste near roads
Conservation of	43 of	processing, con-
Agricultural	1983	conservation, control and prevention of veld fires, control of
Resources Act		weeds and invasive plants.
Agricultural Pests	36 of	, , ,
Act	1983	including importation of exotic plants and animals
National Veld and	101 of	Deals with the establishment of fire protection Associations,
Forest Fire Act	1998	responsibilities for the preparation and maintenance of fire
		breaks
National	107 of	Provides for cooperative environmental governance by
Environmental	1998	establishing principles for decision making on matters affecting
Management Act	1000	the environment.
management / tot		
Environment	73 of	Provides control for the effective protection and utilisation of
Conservation Act	1989	the environment, littering, waste disposal, noise and various
		other activities, which may have a detrimental effect on the
		environment
		-Provides for waste management
		-Provides for waste management

ACT	ACT NO	REMARKS		
Fencing Act	31 of 1963	Prohibits damage to a property owners gates and fences Prohibits climbing or crawling over or through fences without permission		
Hazardous Substances Act	15 of 1973	Sale of group I, II, III and letting, use, operation, application and installation of group III hazardous substances. Transportation of hazardous substances.		
Health Act	63 of 1977	Control of health aspects of waste disposal and water treatment Regulates, rubbish, sewage		
National Roads Act	54 of 1971	Prohibits disposal of waste near National roads		
Occupational Health and Safety Act	85 of 1993	Protects workers from exposure to hazardous substances and working conditions		
National Heritage 25 of Resources Act 1999		Controls for the protection of natural and historical resources.		
National Water Act	36 of 1998	Provides for all aspects relating to pollution of surface		

2.3. Areas of Inspection

- Access to site (Access and control)
- Ablution Facilities (chemical toilets)
- Use of PPE
- Waste management
- House Keeping
- Spills of oil, fuel and cement.
- Soil and ground water pollution
- Vegetation management
- Fauna (killing and hunting of animals is strictly prohibited on site)
- Soil erosion control
- Critical Biodiversity Area

2.4. October 2023 site status



2.5. Outstanding matters

> No outstanding matters were raised during this reporting period

2.6. Daily Pre- warnings and NCR

No Warning were issued during this reporting period

2.7. Urgent Matters

> There were no urgent matters in this reporting period.

3. ENVIRONMENTAL PARAMETERS

3.1. Dust Suppression

Dust is one of the most common negative environmental impacts in construction sites and may course health hazards on employees. The picture below shows a water tanker spraying water on the ground to suppress dust on site, however, the operator of the tanker must make sure not to spray too much water as it creates slippery ground and makes it difficult for heavy machinery to access site.



3.2. Strategic positioning of the Lightning masts on site

Harsh weather conditions such as thunderstorms may lead to natural disasters such as substation or BESS area explosions if there are no Lightning masts or if lightning masts are not strategically positioned to protect both the substation and the BESS area. The contractor has mounted several Lightning masts around the substation for protection from lightning during harsh weather conditions.



3.3. Safe Removal of a Legless Lizard from the construction site

A legless lizard also known as a "Acontias gracilicauda" was found during construction and was safely removed by the contractor's EO on site to place to its natural habitat. is a species of skink. It is found in the Republic of South Africa (Eastern Cape Province, Mpumalanga, Free State, North-West Province, Gauteng, KwaZulu-Natal) and Lesotho. Acontias namaquensis was formerly included in this species as a subspecies, but is now recognized as a distinct species.



3.4. Waste Management

Waste must be removed at regular intervals at a minimum frequency of once a week. All waste must be disposed of at approved landfill sites, no burning or burying is permitted. Both used and unused cement bags must be stored in weatherproof containers so as not to be affected by rain or runoff. The contractor must also make sure that his waste bins are always closed to prevent the unpleasent that may affect the employees on site.



3.5. Spillage control in the Bess Area

Bunded areas can contain at least 110% of the volume stored in the event of a leakage or spills from the batteries.



3.6. Environmental File

The ECO has audited the site environmental file for this reporting period of October 2023. The file is being updated all waste slips and Mobile toilets servicing were noted on the environmental file. The file is always on site still has all the necessary documents.

3.8 Complaints

No Environmental complaints were recorded during the month October 2023.

3.9 Rehabilitation

The project has not reached the rehabilitation phase.

3.10 Incidents

No Incidents were reported in this reporting period.

3.11 Compliance summary

For the purposes of this audit, the description of the **compliance performance** methodology is briefly explained as follows:

- **Compliant** Means that the Contractor has fully complied with all EA and EMPr requirements (and specifications and to the satisfaction of the ECO).
- **Partial compliance** Is applicable in areas where the Contractor has partially complied and is aware but has not fully complied with the EA and EMPr conditions.
- **Non-compliance** Will imply that the Contractor is not complying with the requirements of the EA and EMPr at all, and is not making any efforts/no evidence to remediate the situation.
- **N/A** Not Applicable, when the activity has not commenced or could not be determined by the auditors at the time the audit was undertaken.

The following colour coding was used to indicate areas of Compliant, Partial Compliance, Non-compliance, and Not Applicable:

COMPLIANCE POIN	ITS ANALY	/SIS				
0	1		2			
Not complying Partially comply		•	Compliant			
STATISTICS O	F SITE (COMPLI	ANCE			
		Total preport	points of the	Compliance points of the contractor	Percentage	
24 October 2023 220		220		217	98%	

The contractors still show substantial improvement in terms of compliance to the conditions of the EA and the EMPr, The October 2023 audit score has increased by 1% from 97.2% in In Septenber to 98,6%. The Empr, EA, licenses and other environmental documents are present onsite and the contractor familiarize himself with them.

4 Conclusion

The contractor and all the sub-contractor must comply with all the legal documents on site to avoid any legal contraventions and follow their working procedures on their method statement.

5 Recommendations during construction phase

- It is the responsibility of the Project Manager and Contractor to ensure compliance with all the environmental specifications in the EA, EMPr document as well as the relevant legislation.
- All the waste generated should be taken to the registered landfill and a proof of such disposal must be submitted to the ECO.
- Induction and training should be conducted every morning before commencing activities on site.
- All the protected trees removed should be recorded.
- All the mobile chemical toilets should be serviced twice a week.
- All the supervisors should conduct daily toolbox talk every morning.
- Site is to be cleared and rehabilitated back to its original state.
- Limit damage to existing access roads; i.e.
 - Minimise damage to environment due to excavation and rehabilitation of access roads;
 and
 - Minimise loss of topsoil and enhancement of erosion.
 - When required, speed limits shall be indicated and speed control measures applied on the road.