



**ESKOM DAGBREEK 380 METER 66kV BY-PASS POWERLINE
PROJECT, WESTERN CAPE PROVINCE**

**ESKOM
CONTRACT NO. 4600062551**


ENVIRONMENTAL CONTROL OFFICER REPORT NO.2

DECEMBER 2018

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TITLE: ECO DUTIES FOR CONSTRUCTION OF A 380 METER 66kV BY-PASS POWERLINE IN THE WESTERN CAPE PROVINCE -DAGBREEK				
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SYNOPSIS The project entails the provision of ECO duties for the construction of 380-meter 66kV By-Pass Powerline project in the Western Cape				
KEY WORDS: Environmental Control Officer, Environmental Management Programme				
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QUALITY VERIFICATION				
This report has been prepared under the controls established by a quality management system that meets the requirements of ISO 9001: 2015 which has been independently certified by DEKRA Certification.				
				
Verification	Capacity	Name	Signature	Date
By Author	Environmental Scientist	A Mpokopi		13/12/2018
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1 INTRODUCTION

JG Afrika (Pty) Ltd was appointed by Eskom Holdings SOC Limited to perform Environmental Control Officer (ECO) duties for the construction of a 380-meter 66kV By-Pass Powerline in the Western Cape Province in terms of the Environmental Authorisation and approved Environmental Management Programme (EMP). The Contract commenced in November 2018 and construction is expected to be completed by February 2019.

The ECO will monitor construction activities for the duration of the contract in terms of the approved EMP, and EA, the key findings of which will be recorded in the Environmental Site Reports and distributed to all parties concerned. In addition, the ECO will undertake ongoing bi-monthly audits by completing a compliance table and checklist (**Section 2.2**) with associated site photographs (**Section 2.3**).

1.1 Project administrative details

Site Visit No.	2	
Site Visit Conducted on	12 December 2018	
Next Visit	January 2019 – A date will be confirmed closer to the time	
ECO	JG Afrika	Aseza Mpokopi
Engineers/Client	Eskom	Wesley Martin
Resident Engineer (RE) / Project Coordinator (PC)	Eskom	Sibulele Mdingi
Site Agent / Contractor	Roshcon	The Project Coordinator still to confirm
Contractor Environmental Officer	Roshcon	Ricka Ordman
Contract Period	4 months	End date – February 2019
Environmental Awareness Training	The Contractor's Environmental Officer undertook environmental training on 05 November 2018 and the training register is attached as Annexure 1 . The ECO will conduct refresher training in January 2019 on the same day as the site visit.	
Applicable authorisations / licenses	Environmental Authorisation (Reference 14/12/16/3/3/1/183), including an Environmental Management Programme	
Site Visit frequency	Bi-Monthly	
Report Distribution	Wesley Martin	MartinWD@eskom.co.za
	Sibulele Mdingi	MdingiS@eskom.co.za
	Ricka Ordman	ordmanf@eskom.co.za
Penalties/ Fines	None	

2 COMPLIANCE MONITORING

2.1 Summary of activities on site

The site will be temporarily closed from 13 December 2018 until 9 January 2019. Construction of two structures, one wooden structure and one structure for mono-poles had been completed and backfilled. The site supervisor indicated that there are two remaining structures which will be constructed in the new year. Current excavations were being demarcated.

On the day of the site visit the Contractor was removing a chemical toilet from the working area to Soetondal substation (existing site camp constructed for a different project). The site supervisor indicated that the

chemical toilet will be emptied, cleaned and stored at the substation site camp. The working area was neat, clean and tidy on the day of the site visit.

A temporary site closure checklist was attached as an annexure to the November ECO pre-construction report. The checklist must be completed and forwarded to the ECO on the day of the site shutdown for record keeping.

2.2 Key actions required by Contractor

- Topsoil is being separated from subsoil at the working areas. The Contractor must ensure that construction vehicles / activities do not impact on these stockpiles;
- Contractor must ensure that method statements, which were requested in the -pre-construction report, are submitted to the ECO and Project Coordinator on or before 31 January 2019.

2.3 Compliance Table¹

CONDITION	PREVIOUS AUDIT	CURRENT AUDIT	COMMENTS / ACTIONS REQUIRED
	27.11.18	12.12.18	
1. SITE ESTABLISHMENT			
The construction site office and storage areas for material and equipment must be fenced off	C	C	All materials are stored at Soetondal substation site camp except for pole structures which are stored in the working area.
Vehicles should be serviced at designated areas onsite with appropriate spill management procedures in place	N/A	C	No vehicles serviced on site.
Provide and maintain sufficient ablution facilities, one toilet for every fifteen workers	N/A	C	A chemical toilet was provided on site and removed on the day of the site visit to Soetondal substation.
No open fires are allowed on site other than at designated facilities for cooking etc.	C	C	
Establish eating areas with adequate refuse facilities	N/A	N/A	
Contractor must provide drinking water	C	C	The site supervisor indicated that drinking water is provided for all workers on site.
Emergency contact details must be provided on site and displayed in a visible area	C	C	Emergency contact details are provided in the environmental file which is kept in the Contractors bakkie.

¹ Legend:

C = Compliant	PC = Partially compliant	NC = Non-compliant	N/A = Not applicable
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CONDITION	PREVIOUS AUDIT 27.11.18	CURRENT AUDIT 12.12.18	COMMENTS / ACTIONS REQUIRED
2. REMOVAL OF VEGETATION			
Vegetation removal shall be limited to the required radius for construction of a specific pylon	N/A	C	
Indigenous vegetation which does not interfere with the safe operation of the powerline should be left undisturbed	N/A	C	
Existing access roads must be used as far as possible and the creation of new access tracks for powerline construction should be minimised	C	C	Contractor is using an existing access road.
Branches and other debris resulting from pruning processes should not be left in areas where it will pose a risk to infrastructure	N/A	N/A	
Alien vegetation in the servitude shall be managed in terms of the relevant regulations	N/A	N/A	
3. TOPSOIL			
The top 200mm layer of topsoil must be removed and stockpiled not higher than 2 metres	N/A	C	Topsoil is being separated from subsoil at the working areas. The Contractor must ensure that construction vehicles / activities do not impact on these stockpiles.
Removed topsoil must be appropriately stockpiled and demarcated away from construction activities and systematically returned on areas removed from on completion of construction activities	N/A	C	
4. MATERIALS HANDLING AND STORAGE			
Appropriately secure all materials inside the approved working area	N/A	C	All materials are stored at Soetondal substation site camp except for pole structures which are stored in the working area.
All hazardous substances on site must be adequately stored in bunded areas, recorded and labelled	N/A	N/A	
All hazardous substances on site should be disposed of at a registered hazardous waste disposal facility and disposal slips retained on site for record keeping	N/A	N/A	
Oil contaminated waste (soil, cloths used to clean small spills, spill kits, content of drip trays, etc.) must be disposed of at a registered hazardous waste disposal facility. Persons who remove hazardous waste must be appropriately qualified and authorised	N/A	N/A	
5. MAINTENANCE AND SPILLS MANAGEMENT			
5.1 Maintenance			
Leaking equipment shall be repaired immediately or removed from the site	N/A	C	No leaking equipment were seen on site.

CONDITION	PREVIOUS	CURRENT	COMMENTS / ACTIONS REQUIRED
	AUDIT 27.11.18	AUDIT 12.12.18	
No maintenance activities shall be allowed within 20 m of any watercourse	N/A	C	
Washing of equipment may only be done in the wash bay area	N/A	C	
5.2 Accidental Leaks and Spills			
Hydrocarbon spills shall be isolated, and the spillage contained before being removed. A bio-remediation contractor must be appointed to rehabilitate large oil spills	N/A	C	No spills were seen on site.
Supply absorbent material to absorb/breakdown spills	N/A	C	
Hydrocarbon contaminated material and/or soil shall be collected and safely disposed of at a hazardous landfill site.	N/A	C	
6. WASTE MANAGEMENT			
6.1 Hydrocarbon and Hazardous Waste			
All hazardous waste shall be disposed of at a licensed hazardous landfill site. Temporary storage of hazardous waste should be in a bunded area or enclosed container.	N/A	C	No hazardous waste generated on site.
6.2 Solid Waste			
Littering or illegal dumping of any waste material is prohibited	N/A	C	Waste bins with lids are provided on site and transported to the substation for storage on a daily basis.
No waste material (including hazardous waste) or litter shall be burnt or buried on site - waste shall be disposed at a licensed disposal facility	N/A	C	
Waste separation should be encouraged for recycling purposes	N/A	C	
For all waste that is disposed of, Eskom shall obtain waste manifests and disposal certificates, which shall be recorded and reported to the ECO on a monthly basis.	N/A	C	
6.3 Water and Wastewater			
Abstraction of water from watercourses for construction purposes will not be allowed	N/A	C	
Surface or groundwater shall not be polluted by construction activities	N/A	C	
Stormwater runoff must be managed efficiently so as to avoid stormwater damage and erosion to adjacent properties	N/A	C	

CONDITION	PREVIOUS AUDIT 27.11.18	CURRENT AUDIT 12.12.18	COMMENTS / ACTIONS REQUIRED
Any hydrocarbon contaminated runoff shall be stored in a conservancy tank for disposal at an approved site	N/A	C	
Stockpiling of construction material and soils should be such that pollution of water resources is prevented and that the materials will be retained in a storm event	N/A	C	
No wastewater shall be disposed of directly or indirectly into the municipal storm water system or into any watercourses	N/A	C	
7. EROSION AND SEDIMENTATION CONTROL			
Access roads and site surfaces must be monitored for deterioration and possible erosion	N/A	C	
If erosion occurs, rehabilitation must immediately be done	N/A	C	
Stabilised areas shall be demarcated, and traffic and movement over stabilised areas shall be restricted	N/A	C	
8. FIRE CONTROL			
No burning of vegetation and waste shall be allowed on site	N/A	C	
Basic firefighting equipment shall be supplied to all working areas, workshop areas and stores. A designated smoking area shall be provided at all working areas	N/A	C	The site supervisor indicated that a fire extinguisher was provided on site next to a designated smoking area. These had been removed as the Contractor is preparing for site closure.
Welding, gas cutting or cutting of metal will only be allowed inside the working/demarcated areas and with appropriate firefighting equipment at hand	N/A	C	
9. PROTECTION OF NATURAL FEATURES, FLORA AND FAUNA			
No natural water sources may be used for the purposes of swimming, personal washing and the washing of machinery or clothes	N/A	C	
Contractor shall not deface, paint, damage or mark any natural features outside the site	N/A	C	
Animals or birds shall not be fed, disturbed, hunted or trapped	N/A	C	
Anti-collision devices such as bird flappers must be installed on the bypass powerlines (380 m)	N/A	C	
For any archaeological evidence unearthed within the site, work at that specific section must be immediately stopped and Heritage Western Cape contacted to inspect findings	N/A	C	

CONDITION	PREVIOUS AUDIT 27.11.18	CURRENT AUDIT 12.12.18	COMMENTS / ACTIONS REQUIRED
10. DUST CONTROL			
Speed limits must be strictly adhered to in order to limit the levels of dust pollution	N/A	C	
Undertake adequate wind and dust control measures	N/A	C	
11. SITE CLOSURE AND REHABILITATION			
After construction, all temporary access roads should be rehabilitated	N/A	N/A	
All disturbed or cleared areas on site must be ripped and rehabilitated and replanted with suitable, indigenous grass to prevent erosion where necessary	N/A	N/A	
All construction related structures, equipment, materials, waste, rubble, notice boards and temporary fences must be removed with minimum damage to the surrounding area	N/A	N/A	

2.4 Site Visit Photographs – 12/12/2018



Figure 1: View of completed and backfilled wooden structures near the R44 road.



Figure 2: Location of the second wooden structure which will be constructed when the site re-opens in January 2019.



Figure 3: Completed and backfilled mono-pole structure. Arrow points to a chemical toilet being removed from site.



Figure 4: View of the current access road being used by Contractor.



Figure 5: View of excavation being demarcated.



Figure 6: Topsoil stockpile separated from subsoil. Contractor must ensure that construction vehicles do not drive over it.