DOCUMENT CLASSIFICATION: CONTROLLED DISCLOSURE

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

34-926

Type:

DPC

Revision:

DRAFT 0A

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Annex B - Distribution Environmental Screening Document (DESD)

(Informative)

Reticulation Powerlines and Ancillary Services

Ratified and accepted by
Environmental Practitioner
Environmental Specialist
Head of Engineering Survey

(one signature please)

Accepted by Land Owner/s/Users

BAKENBERG TRADITIONAL AUTHORITY

I have seen the completed document and accept the

recommendations made

Assessor/s

A.NEETHLING

Signature:

in consultation with : M.D. LANG A .

Signature: ...

CAPACITY (e.g. land owner, specialist):

DATE COMPLETED: 27 August 7020

Instructions

- 1. Fill the report in as neatly and completely as possible.
- 2 Where the question / statement is not applicable mark N/A.
- Indicate sensitive areas on a map and/or spanning plans.
- When in doubt, consult the Environmental Practitioner in your region.

The purpose of this DESD is to:

- Determine whether or not the project should be subject to R543 -7, published in terms of the National Environmental management Act 107 of 1998.
- Identify and mitigate the negative impact of Eskom's activities to a minimum in line with both Legislation and Eskom's Environmental Policies.
- This report is a guide to Route Selection, Construction and Field Services.

NOTE Complete the report before the survey!!!

This is not an office exercise.

Extra sheets of paper may be added and referenced if insufficient space has been provided.

Environmental Management Programme.

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Annex B (continued)

1 Project description

Project name/Su	rvey	
Request	KAMIJOU TRADING & PROJECTS	Area BAKENBERG
Project number	H03-4311	File number
Rural scheme/		
Feeder	GILEAD/PUDIAKOP	VoltageV
Supply from	GKP352/6/301/1	
(scheme name, p	pole numbers for tee-off)	
Supply to	GKP352/6/301/36 - PUMPHOUSED	
(Farm name, etc.	.)	
		
2 Properties	traversed	
Farm name	VLIEGEKRAAL	
Registration num		Sub-division REMAINDER
		length (m) 2.797km
Registration num	ber and Division	Sub-division
Compilation num	berLine	length/Site area (m²)
3 Brief descr	ription of the surrounding a	ırea
	L LINE FOR THE ELECTRIFICATION	
	OM TRANSFORMER POSITION	IT
NIVER TOOTHT RC	INANSI ORWER FOSITION	
Could the propo aspects?	sed project have an impact on o	r be constrained by any of the following environmenta

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Encircle the appropriate aspect, giving a description of the present state as well as an indication of the possible negative impact. Note that mitigating measures for these impacts are to be included in the

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Annex B (continued)

4 Physical en	vironment					
4.1 Water: str	reams rivers	dams	wetlands	springs	floodplains	OTHER
Present condition:	SMALL RIVER N	IEAR PUMPH	OUSE			
Potential impact (e.g. threat of pol	lution): .N/A				
4.2 Soil:	sandy	rock	У	clayey	0	THER
Present condition:	ROCKY AND CL	AYEY SOIL P	RESENT			
Potential impact (6 4.3 Topography						OTHER
Present condition:	FLAT AREA					
Potential impact (e.g. of erosion)	NONE				
Comments/mitigat	ing measures:					
NONE						

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Annex	В
(continue	d)

5 Natural env	vironment					
5.1 Flora:	indigenous	protecte	ed exc	otic	OTHER	
Brief description						
Potential impact	(e.g. permit appl					
5.2 Fauna:	mamm	als	birds	OTH	IER	
Brief description (e.g. rare, protec NONE			nts, eagles, vultu	res, etc., menti	on migratory paths)	
NONE			-			
Comments/mitiga	ating				measure	:S:
6 Social envi	ironment					
6.1 Restricted areas:	nature/game reserves	hiking trails	tourism route	s parks	recreational areas	
Residential- areas	green belts	sacred/holy grounds	OTHER			
Brief description	T-OFF IN SEMI R	ESIDENTIAL ARE	Α			

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		Annex B (continued)		
Potential impact e.g.	threat of encroachm	nent, etc. NONE		
6.2 Visual aestheti	cs: easily seen	hidden		partially
Brief description .F.L.	AT AREA WITH SOME	SEKELBOS, EXISTING	INFRASTRUCTUE	RE EASILY SEEN
Potential impact	NE			
6.3 Natural heritag	e: cultural significance	archaeological objects	monuments	palaeontological objects
	graves	meteorites	ruins	OTHER
Resource Act, No 25 the SAHRA. If line	of 1999 be identifie or access road leng		of Act 25 of 1999 AHRA shall be r	
Comments/mitigating	-			
7 Economic en	vironment			
7.1 Land use:	crops game farming	orchards forestry areas	grazing mining	crop spraying OTHER
Brief description	NE			

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Poten	tial impact	NONE					
7.1.1	Commerci	ial:	factories		shops	OTHER	
	description tial impact						
7.1.2	Infrastruct	ture	roads		communications	power lines	air fields
Brief o	description:	EXISTI	NG GRAVEL R	OADS AND PO	WERLINES PRESENT		
Poten	tial impact	NONE					
Comr	ments/mitiç	gating r	neasures:				

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Ar	nnex	В

(continued)

١	What	impact	will	this	project	have	on e	lements -	4 to	7?	

1. Physical

No impact (0) Medium impact (2) High impact (4)

2. Natural

No impact (0) Medium impact (2) High impact (4)

3. Social

No impact (0) Medium impact (2) High impact (4)

Overall impact:

This section addresses the overall environmental impact of the project. The impacts as assessed in the above three spheres (physical, natural and social) need to be considered to determine the overall impact

0 2 4

No impact Medium impact High impact

If the overall impact is between 2 and 4, contact the Environmental Management Officer or the Environmental Senior Superintendent.

Alternatives

Have alternative routes been discussed with the relevant land owner/s or users?

Yes V

Detailed study

Is an environmental assessment required in terms of Regulation R543?

Yes No

Should a permit application be made to DWA?

Yes No

Should the SAHRA be notified?

Yes V

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Annex C - Environmental Management Plan

(Normative)

1 General conditions

- 1.1 The Eskom project manager or co-ordinator shall be responsible for ensuring that the land owners have been informed before any work is carried out on site. Contractors shall find out if the landowners have been informed before moving onto site.
- 1.2 No fences, gates or locks shall be damaged to obtain access onto a line route. Arrangements shall be made in advance to obtain permission for access.
- 1.3 Use of private roads shall be arranged in advance. Any damage to private roads shall be repaired at the contractor's expense and to the satisfaction of the landowner. This shall be the responsibility of the project manager or co-ordinator.
- 1.4 Gates shall be left as they are found, i.e. closed gates shall be kept closed and open gates shall be left open. Gates to adjacent properties or onto public roads shall be closed at all times. Any Eskom gates installed on the line route shall be kept closed and locked except while stringing is taking place. Open gates shall be guarded to prevent animals straying and unauthorised persons and vehicles entering into adjacent camps or properties.
- **1.5** Permission shall be obtained from landowners before any water is used.
- No fires shall be lit on private property. If fires are lit on Eskom's property or in the construction camp, provision shall be made that no accidental fires are started. No firewood shall be collected in the veld.
- 1.7 If activities that can cause a fire are carried out, fire extinguishers shall be available on site and in the construction camp.
- **1.8** No property may be accessed after normal working hours except with the permission of the landowner. Privacy shall be respected at all times.
- **1.9** Eskom, Eskom's contractors and their employees shall at all times be courteous towards landowners, tenants and the local community.
- **1.10** Eskom, Eskom's contractors and their employees shall not cause damage to property, crops or animals. Activities that may cause conflict with landowners, tenants, the local work force or the local community shall be avoided. Should conflict arise it shall be immediately reported to the Eskom project manager or co-ordiator.
- **1.11** Vehicles shall be driven at a moderate speed on private roads and stay within the statutory speed limit on public roads.
- 1.12 All movement of vehicles shall take place on the established Eskom servitude road or on private roads as agreed in advance. Keep to existing tracks. No movement shall take place through the veld. Special care shall be taken to prevent excess damage during wet weather.

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Annex C

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- **1.13** If any vehicle should get stuck, the damage shall be repaired immediately so that no deep ruts remain.
- 1.14 Any damage to private property shall immediately be reported to Eskom and the owner. The damage shall be rectified immediately if possible and/or appropriate compensation shall be paid to the owner at the discretion of the project manager/co-ordinator in consultation with the property owner. A record of damages and rectifying action shall be kept. The landowner's satisfaction with the outcome of rectifying action shall be obtained in writing.
- 1.15 A proper system of waste management shall be instituted in the construction camp. This entails that sufficient waste bins are available on site and in the construction camp. The waste shall be dumped at an approved waste disposal site. No containers, scrap metal, conductor etc. shall be left on site.
 - All scrap shall be removed and taken to an appropriate disposal site. No oil, diesel or other chemicals shall be spilled or discarded anywhere. If an accidental spill occurs, it shall be reported immediately and cleaned to the satisfaction of Eskom and the landowner. No waste shall be left in the veld or on the line route.
- **1.16** Washing and toilet facilities shall be provided on site and in the construction camp. The facilities shall comply with Eskom standards and shall have the approval of the landowner.
- **1.17** No human excrement shall be left in the veld. If no toilet facilities are available such waste shall be buried *immediately*.
- **1.18** Herbicides shall only be applied with Eskom's permission and in accordance with the Eskom Policy on Herbicides ESKPBAAD4.
- **1.19** Camp and office sites shall be dismantled and removed after completion of the construction phase of the project. The site shall be rehabilitated to as close as possible to its original condition to the satisfaction of the landowner, which shall be in writing.
- **1.20** All excavations shall be enclosed to prevent animals or people from accidentally falling into excavations.
- 1.21 No trees shall be cut or removed without prior permission from the landowner. Permits shall be obtained for the cutting and removal protected trees (protected trees shall be dealt with in 2, Special conditions).
- **1.22** Should any natural heritage object be found, or exposed during excavations, all work shall be terminated immediately and the finding reported to the Project Manager who shall inform the Eskom Environmental Practitioner and the SAHRA.

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Specific issues identified during the scoping as needing attention i.e. erosion berms, bird flap protected trees. etc.).	рсгэ,

TYPICAL MITIGATION MEASURES

ENVIRONMENTAL CONCERNS	MITIGATION MEASURES
AGRICULTURE	
Loss of standing crop due to access road and tower work site.	 limit width of access and size of tower site. avoidance of crop areas. monetary compensation for crop loss. time construction to avoid growing season.
Soil Compaction	 scheduling activities to times of the year when soils are least susceptible to compaction. stop activities when ground conditions are poor. use of equipment with low bearing capacity. chisel ploughing.
Construction of new lines	- locate access roads along existing traffic routs.
Topsoil – subsoil mixing/soil rutting	 scheduling activities. stop activity when ground conditions are poor. use of equipment with low bearing capacity. use of gravel roads. addition of manures to offset fertility loss. compensation for reduced soil pEAuctivity. removal of spoil and/or bentonite from foundation operations. Segregation of topsoil and subsoil.
Disturbance to farm operations	- maintain contact with landowner/tenant regarding preferences.
Loss of livestock	 employ noise control measures near sensitive livestock. Construction of farm gates. Securing farm gates. Clean-up construction materials which could be ingested. Compensation for lost, injured livestock.
SOCIAL IMPACTS	
Mud and Dust	 wetting down dry soils. chemical control of dust. cleaning roads to remove mud. temporary planting of grasses.

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Aesthetics

Wind/water erosion.

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screen with natural of planted vegetation restoration.

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avoid linear access down the right-of-way. addition of topsoil to gravel access roads. hoarding construction sites. installation of landscaping in advance of site completion. select route and method of installation to suit Inconvenience landowners' conditions. select timing of activity. Heritage resources avoidance/isolation. design measures to make facility less obtrusive. screening. alternate methods of equipment. protection by use of enclosures, barrier fencing, covering. salvage in conjunction with SAHRA. relocation in conjunction with SAHRA. design measures to make facility less obtrusive of Tourism and recreation resources disruptive. screening and restoration. minimise noise and dust. safety precautions to protect the public. scheduling to avoid peak use periods. **WATER QUALITY** Sedimentation of streams due to minimise use of slopes adjacent to streams during soils erosion from the right-of way. testing, construction and maintenance. maintain a cover crop. retain buffers. Stream bank erosion. mechanical erosion control. retain shrubby stream bank vegetation and selectively cut or prune trees during line clearing/maintenance. selective spraying of herbicides. Mechanical erosion control. use and maintenance of appropriate stream crossing Impedance of natural flow streams/others surface waters. device. timing activities to stable ground conditions. Ponding or channelization of surface waters due to rutting. use of gravel roads. Contamination of surface or ground spill control material and procedures readily available. waters through spills or leaks of toxic site selection where possible. substances. Soil compaction/topsoil-subsoil mixing. avoidance of rutting by vehicles where possible.

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construction timing. use of gravel roads.

slope stabilisation.

mechanical erosion control. vegetation erosion control. recompaction of trenches.

use of vehicles with low bearing pressures. stop activities when ground conditions are poor.

avoidance of areas with high erosion potential. timing activities to the most stable ground conditions.

avoid trenching parallel to the fall of a slope.