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Annex B - Distribution Environmental Screening Document (DESD)

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 Name Mayosh Mokgotho		
I have seen the completed document and accept the recommendations madeSign		
Form completed by Awallam Signature Signature	10	storyp
in consultation with: Mayosh Signature:		
CAPACITY (e.g. land owner, specialist): Land one-		
DATE COMPLETED:1.5/3/2.1		

Instructions

- 1. Fill the report in as neatly and completely as possible.
- 2. Where the question / statement is not applicable mark N/A.
- 3. 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.

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Annex B (continued)

1 Project description

Project name/Survey
Request Area Prokopone
Project name/Survey Request Area Mokopous Project number MW0354072805 File number Rural scheme/
Rural scheme/
eeder Turkspruit Voltage 715
Rural scheme/ Feeder Turf-spruit Voltage 72 k - Supply from 577143/25
scheme name, pole numbers for tee-off)
scheme name, pole numbers for tee-off) Supply to Pustenbury Plating mine
Farm name, etc.)
2 Properties traversed
Turfspruit
Pegistration number and Division 241 KR Sub-division —
Farm name Turksprail Registration number and Division 241 kR Sub-division — Compilation number 2428 BBH Line length (m) 1030 m
Farm name
Registration number and Division
Compilation number Line length/Site area (m²)
Sompliation number
3 Brief description of the surrounding area
Power line soil is hard long grass and some portions of thom bust to animals
Could the proposed project have an impact on or be constrained by any of the following environmental
aspects?
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 Environmental Management Programme.

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4 Physica	al environ	ment				
4.1 Water:	streams	rivers d	ams wetlands	springs flo	odplains	OTHER MIN
Present cond	dition:		None			
Potential imp	oact (e.g. three	eat of pollutio	n):			
			Nore			
4.2 Soil:	san	(A)	rocky	clayey	ОТ	HER
			Sundy s			
Potential imp			ges hills valle			THER
Present cond	dition: pact (e.g. of	erosion)	Pen ar	d Pl	at	
Comments/r	mitigating me					
			Mon	Č.		

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5 Natural env	vironment					
5.1 Flora:	indigenous	protecte	ed e	xotic	OTHE	R
Brief description	and conservation	n status (e.g. rar	e, etc. mention	trees/bush/g	rass)	
5.2 Fauna:	mamm	als	birds	C	THER	
Brief description (e.g. rare, protec						
No	anın	146 50	er_			
Potential impact	(e.g. threat of ele	ectrocution, collis	sion, etc)			
		No	٠۲			
Comments/mitiga	ating					measures:
			ų			
6 Social envi	ironment	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
6.1 Restricted areas:	nature/game reserves	hiking trails	tourism rout	es pa	rks	recreational areas
Residential- areas	green belts	sacred/holy grounds	OTHER			
Brief description	TOFF,	n result	entral c	284		

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		Annex B (continued)		
Potential impact e.g. t	hreat of encroach	ment, etc		
6.2 Visual aesthetic		hidden		partially
Brief description2	road	Casily st	en nex	to race
Potential impact		Nore		
6.3 Natural heritage	: cultural significance	archaeological objects	monuments	palaeontological objects
	graves	meteorites	ruins	OTHER
Resource Act, No 25 the SAHRA. If line of	of 1999 be identific r access road len	ed, the requirements gth exceeds 300m	of Act 25 of 199 SAHRA shall be	ined in the National Heritage 9 shall be followed by notifying notified.
Comments/mitigating	measures SAH	RA to be	e notified	1
7 Economic env	ironment		***************************************	
7.1 Land use:	crops	orchards	grazing	crop spraying
(game farming	forestry areas	mining	OTHER
Brief description		FIIA		
Diei description		VALUE OF THE REAL PROPERTY OF THE PROPERTY OF THE REAL PROPERTY OF THE REAL PROPERTY OF THE P		

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		(00	ontinued)		
Potential impact			10ce		
7.1.1 Commercial:	factories		shops	OTHER	
Brief descriptionS Potential impact	some st		tk VIII Tou	age whee Tok	F13
7.1.2 Infrastructure:	roads pipelines	railways sewage	OTHER		275.760
Brief description:	055149 055149	NII Telko 33 ko	n line		
Potential impact	od f	permits	Cappe	41)	
Comments/mitigating	ı measures:				
714	ed pe	courts/	approva	/	

Annex B

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Annex E	A	n	n	e	X	E
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			(0	ontinued)		
Wha	t impact will thi Physical	is project have	on elements 4 to	7?		
No ir	npact((())	Medium i	impact (2)	High impact (4)		
2.	Natural					
No ir	npact@	Medium i	impact (2)	High impact (4)		
3.	Social					
No ir	npact 🚳	Medium i	impact (2)	High impact (4)		
This	e three sphere	es (physical, na	atural and social)	I impact of the project. To need to be considered to	ne impacts as a determine the o	assessed in the verall impact
		0) mpact	2 Medium impac	t High impact	_	
Yes No	alternative ro	utes been disc	cussed with the re	elevant land owner/s or use	ers?	
Deta	iled study					
ls ar	environmenta	al assessment	required in terms	of Regulation R543?		
Yes						
No	_/					
Sho	uld a permit ap	plication be ma	ade to DWA?			
Yes	\					
No		_				
Sho	uld the SAHRA					
Yes		be notified?				
		be notified?				
No		be notified?				
No		be notified?				

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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.
- 1.6 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 (continued)

- 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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Annex C (continued)

2 Special conditions

(Specific issue	s identified o	during the sco	ping as need	ing attention i.e. er	rosion berms, bird flappers
protected trees	C C 605	SINCE.	Elhon	CHOSSING 3	3 KV CHESSIN
	· / / / /	11 -	/	,,,,,	***************************************
	NA FIR	V.1/.C	De K	olified	

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	screen with natural of planted vegetation restoration. 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.
Inconvenience	select route and method of installation to suit 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.
Tourism and recreation resources	design measures to make facility less obtrusive of 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 erosion from the right-of way.	minimise use of slopes adjacent to streams during soils 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.
Impedance of natural flow streams/others surface waters.	 use and maintenance of appropriate stream crossing device.
Ponding or channelization of surface waters due to rutting.	timing activities to stable ground conditions. use of gravel roads.
Contamination of surface or ground waters through spills or leaks of toxic substances.	 spill control material and procedures readily available. site selection where possible.
Soil compaction/topsoil-subsoil mixing.	avoidance of rutting by vehicles where possible. construction timing. use of gravel roads. use of vehicles with low bearing pressures. stop activities when ground conditions are poor.
Wind/water erosion.	avoidance of areas with high erosion potential. timing activities to the most stable ground conditions. slope stabilisation. mechanical erosion control. vegetation erosion control. recompaction of trenches. avoid trenching parallel to the fall of a slope.

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