# ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier: 240-72597722

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Annex B - Distribution Environmental Screening Document (DESD) (Informative)

# Reticulation Powerlines and Ancillary Services

recommendations made	I have seen the completed document and accept the	Accepted by Land Owner/s/Users	(one signature please)	Head of Engineering Survey	Environmental Specialist	Environmental Practitioner	Ratified and accepted by	
Maleas	and accept the	May 1010 march Contains the ALK TUL	2					
DRIEKO 253 KT. F.C. 33	XGOSHI MW MORES	hall to the 2021	19 Was Appende			WASHING TRADITION	RARINA KOOLO TOLO	Participant of the Control of the Co

recommendations made Form completed by L Mary Marcas Mall ..Signature: ..... Assessor/s

LIMPOPO PROVING

DRIEKOP 1120 80%

in consultation with: K.M. May lower Signature: Marous MWall

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

DATE COMPLETED: 23/04/2021

### Instructions

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

Extra sheets of paper may be added and referenced if insufficient space has been provided. This is not an office exercise.

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#### Annex B (continued)

1 Project description
Project name/Survey
Request SIKHUKHUNE DISTRICT MUNICE BUIGEYSFORT
Project number 08379049080 File number
Rural scheme/
Feeder Steelpot/Manuageswelvoltage 22 KU
Supply from 5773/44/31/45/8
(scheme name, pole numbers for tee-off)
Supply to SN 73/44/31/45/15
(Farm name, etc.)
2 Properties traversed
Farm name  DRIEKOP  Registration number and Division 253 KT Sub-division
Registration number and Division
Compilation number 2430Cf. Line length (m) 401
Farm name
Registration number and Division
Compilation number Line length/Site area (m²)
3 Brief description of the surrounding area
H's a residential area
11 × residental a or
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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#### Annex B (continued)

4 Physical	environment					
4.1 Water:	streams rivers		wetlands	springs	floodplains	
Present conditi	ion: Alst e	~eq			·····	
Potential impac	ct (e.g. threat of po	ollution):				
	Nove					
	••••••••••••					
4.2 Soil:	sandy	roc	cky	claye	y	OTHER
	ion: Reick					
Potential impac	ct (e.g. of erosion)	None				
4.3 Topograp	hy mountains	ridges	hills valley	s ravines	dongas	OTHER
Present conditi	ion: Hat	ovea				
Potential impac	ct (e.g. of erosion)	No	د			
Comments/miti	igating measures:					
	N	بو				
					*	

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			ontinued)		
5 Natural env	rironment				
5.1 Flora:	indigenous	protecte	ed exc	otic (	OTHER
Brief description	and conservation	status (e.g. raro	e, etc., mention t	rees/bush/grass こいす	)
5.2 Fauna:	mamm		birds		ER
Brief description (e.g. rare, protec		n giraffe, elephar	16 16 <del>-</del> 17 0		n migratory paths)
	Themin	als			
Potential impact	(e.g. threat of ele	ectrocution, collis	sion, etc)		
Nou					
Comments/mitiga	atin <b>g</b>				measures:
	Nore				
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	Han	es devolo	I amea		

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Annex B		
(continued)		
etc. Nive		
hidden		partially
easy	Seem	
naeological ects	monuments	palaeontological objects
eorites	ruins	OTHER
cceeds 300m	SAHRA shall be	
•••••	•••••	
nards	grazing	crop spraying
stry areas	mining	OTHER
	enta	

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Annex	В
(continue	d)

Potential impact Mue					
7.1.1 Commercial:	factories	sh	nops	OTHER	
Brief description Potential impact		al exe	<u>&gt;</u>		
7.1.2 Illiastructure	(odde	railways sewage	communications		air fields
Brief description:	Reside	ntal e	√e.		
Potential impact	,ou				
Comments/mitigating	g measures:				

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#### Annex B

(continued)

What impact will this project have on elements 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)

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

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

No \_\_\_\_

#### **Detailed study**

is an environmental assessment required in terms of Regulation R543?

Yes

Man

Should a permit application be made to DWA?

Yes

No

Should the SAHRA be notified?

Yes

No

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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.
- Use of private roads shall be arranged in advance. Any damage to private roads shall be repaired 1.3 at the contractor's expense and to the satisfaction of the landowner. This shall be the responsibility of the project manager or co-ordinator.
- Gates shall be left as they are found, i.e. closed gates shall be kept closed and open gates shall 1.4 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.
- Permission shall be obtained from landowners before any water is used. 1.5
- 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 1.6 in the veld.
- If activities that can cause a fire are carried out, fire extinguishers shall be available on site and in 1.7 the construction camp.
- No property may be accessed after normal working hours except with the permission of the landowner. Privacy shall be respected at all times. 1.8
- Eskom, Eskom's contractors and their employees shall at all times be courteous towards 1.9 landowners, tenants and the local community.
- 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 1.10 local community shall be avoided. Should conflict arise it shall be immediately reported to the Eskom project manager or co-ordiator.
- Vehicles shall be driven at a moderate speed on private roads and stay within the statutory speed 1.11
- 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. 1.12

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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
- 1.14 owner. A record of damages and rectifying action shall be kept. The landowner's satisfaction with to the owner at the discretion of the project manager/co-ordinator in consultation with the property damage shall be rectified immediately if possible and/or appropriate compensation shall be paid Any damage to private property shall immediately be reported to Eskom and the owner. 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

the veld or on the line route. immediately and cleaned to the satisfaction of Eskom and the landowner. No waste shall be left in 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

- 1.16 shall comply with Eskom standards and shall have the approval of the landowner Washing and toilet facilities shall be provided on site and in the construction camp. The facilities
- 1.17 be buried immediately No human excrement shall be left in the veld. If no toilet facilities are available such waste shall
- 1.18 Herbicides shall only be applied with Eskom's permission and in accordance with the Eskom Policy on Herbicides ESKPBAAD4.
- 1.19 to the satisfaction of the landowner, which shall be in writing. 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
- 1.20 All excavations shall be enclosed to prevent animals or people from accidentally falling into
- 1.21 No trees shall be cut or removed without prior permission from the landowner. Permits shall obtained for the cutting and removal protected trees (protected trees shall be dealt with in Special conditions). Permits shall be
- 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 Eskorn Environmental Practitioner and the SAHRA.

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#### Annex C (continued)

2 Special conditions	
(Specific issues identified during the scoping protected trees, etc.).	as needing attention i.e. erosion berms, bird flappers,
Nux	
TYPICAL MIT	IGATION MEASURES
ENVIRONMENTAL CONCERNS	MITIGATION MEASURES
AGRICULTURE	
	" " ' W f

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

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A	,
Aesthetics	<ul> <li>screen with natural of planted vegetation restoration.</li> </ul>
	- avoid linear access down the right-of-way.
	- addition of topsoil to gravel access roads.
	<ul> <li>hoarding construction sites.</li> </ul>
	installation of landscaping in advance of site
1	completion.
Inconvenience	<ul> <li>select route and method of installation to suit</li> </ul>
	landowners' conditions.
	- select timing of activity.
Heritage resources	- avoidance/isolation.
	<ul> <li>design measures to make facility less obtrusive.</li> </ul>
	- screening.
	- alternate methods of equipment.
	<ul> <li>protection by use of enclosures, barrier fencing,</li> </ul>
	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	
Sed mentation 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.
12.00	- Mechanical erosion control.
Impedance of natural flow	- use and maintenance of appropriate stream crossing
streams/others surface waters.	device.
Ponding or channelization of surface	<ul> <li>timing activities to stable ground conditions.</li> </ul>
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.
Son Son paction to paon to add the maning.	- 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.
THERE WINDS GIVENIA	- 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.
	MANUAL MA