**ENVIRONMENTAL IMPACT ASSESSMENT FOR** 

**DISTRIBUTION ACTIVITIES** 

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

Reticulation Powerlines and Ancillary Services

Ratified and accepted	by	
Environmental Practit	ioner	
Environmental Specia	alist	
Head of Engineering	Survey	
(one signature please	)	
Accepted by Land Ov	vner/s/Users	
I have seen the comp	leted document	t and accept the
recommendations ma	de	
		Assessor/s Ak
Form completed by	FC TAICA	(AN) Signature: Hateleye
in consultation with:	K. p.m	14KU-Signature: U
CAPACITY (e.g. land	owner, speciali	ist):

#### Instructions

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

DATE COMPLETED: .....

- 3. Indicate sensitive areas on a map and/or spanning plans.
- 4. 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.

DEPARTMENT OF CO-OPERATIVE GOVERNANCE
HUMAN SETTLEMENT & TRADITIONAL AFFAIRS

BAKUTSWE BA MAKOFANE

1 Z MAR 2021

TRADITIONAL COUNCIL PIBAG X 1001 EUROGERSFORT

1405

SEKHUKHUNE DISTRICT SUPPORT CENTRE

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# Annex B (continued)

1 Project des	scription	
Project name/Su Request	I'VE DEVIATION	Area
Project number Rural scheme/		File number
Feeder	PSE	Voltage 22kV
Supply from		
	pole numbers for tee-off)	
Supply to	8	
(Farm name, etc	2.)	
2 Properties	traversed	
Farm name	KOEDOBSKI	AL Sub-division REMAINDER
Registration nun	nber and Division 123 KT	
Compilation nun	nberLine le	ength (m) 10/5 m
Farm name		
Registration nun	nber and Division	Sub-division
Compilation nun	nber Line k	ength/Site area (m²)
3 Brief desc	ription of the surrounding are	ea
***************************************		
	***************************************	
***************************************	***************************************	
aspects?	osed project have an impact on or i	be constrained by any of the following environmental
possible negativ	propriate aspect, giving a description or impact. Note that mitigating mea Management Programme.	n of the present state as well as an indication of the asures for these impacts are to be included in the

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# Annex B (continued)

4 Physical environment
4.1 Water: streams rivers dams wetlands springs floodplains OTHER
Potential impact (e.g. threat of pollution):  NO IMPACT
4.2 Soil: sandy rocky clayey OTHER
Present condition: SANDY & CLAYEY SOIL
Potential impact (e.g. of erosion)
Present condition: MODERATE SLOPE, THE AREA IS CLOSE TO MOUNTAINS  Potential impact (e.g. of erosion) NO IMPACT
Comments/mitigating measures:
M/A

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Annex	E
(continue	d

5 Natural env	/ironment					
5.1 Flora:	indigenous	protecte	exo exo	tic O7	THER	
Brief description	and conservation	status (e.g. ran	e, etc., mention tr	rees/bush/grass).		
Potential impact (	(e.g. permit appli	cations	IMPACT			
5.2 Fauna:	mamma		birds		ALM	
	ted, etc., mentior	n giraffe, elephai		res, etc., mention	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
	**************************************	NA				
Potential impact	(e.g. threat of ele	ectrocution, collis	sion, etc)		********	
		NO IMPA	CT		•••••••	
					*********************	
Comments/mitiga	-				measi	
	h	/ K				
6 Social envi						
6.1 Restricted areas:	nature/game reserves	hiking trails	tourism routes	s parks	recreational areas	
Residential- areas	green belts	sacred/holy grounds	OTHER	******		
Brief description		YONE				

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		Annex E	3/1		
Potential impact e.g. the	reat of encroachn	nent, etc	NOIMPACT		
6.2 Visual aesthetics:	(easily seen	hidder	1	partially	
Brief description	CAN BE	SEE ALC	ons THE	ROAD	
Potential impact					
6.3 Natural heritage:	cultural significance	archaeological objects	monuments	palaeontological objects	
<	graves	meteorites	ruins	OTHER	
Resource Act, No 25 of the SAHRA. If line or a	1999 be identifie access road leng	d, the requiremength exceeds 300n	ts of Act 25 of 1999 SAHRA shall be	THE	ge ng
Comments/mitigating m		***************************************			
	M/A				
7 Economic envir	onment				
	ops me farming	orchards forestry areas	grazing mining	crop spraying OTHER	
Brief descriptionC.1	eof farm	INS & D	omest ic	ANIMAL CARMIN	45

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#### Annex B (continued)

Pote	ential impact	No IND	ACT		······································	
<b>7.1</b> .1	I Commercial:	factories		shops	OTHER	MONE
7.1.2	2 Infrastructure:		railways sewage	communication		air fields
Brie	f description: Lo f	m & Lu	Powe	ER LINES	, SEAVE	L
Pote	ential impact	Houe				
	nments/mitigatin			, s		
			N/A			

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		Annex B (continued)	
What impact will 1. Physical	this project have on elements	4 to 7?	
No impact (0)	Medium impact (2)	High impact (4)	
2. Natural			
No impact (0)	Medium impact (2)	High impact (4)	
<ol><li>Social</li></ol>			
No impact (0)	Medium impact (2)	High impact (4)	
No	0 2 b impact Medium in	cial) need to be considered to determ  4  npact High impact  4, contact the Environmental Mar	•
Environmental S	enior Superintendent.	, contact the Environmental Mar	lagement Officer or the
Alternatives			
Have alternative	routes been discussed with t	he relevant land owner/s or users?	
Yes	-		
Detailed study			
Is an environmen	ntal assessment required in te	erms of Regulation R543?	
Yes	_		
Should a permit	application be made to DWA?	?	
Yes No			
Should the SAHF	RA 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.
- 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.
- 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

(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 Spec	ial co	nditions						-					
(Specific protected		identified etc.).	during	the	scoping	as	needing	attention	i.e.	erosion	berms,	bird	flappers
; ;	•••••••		Hoi	ME						••••••			****
											*********	******	****

### **TYPICAL MITIGATION MEASURES**

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	maintain contact with landowner/tenant regarding preferences.
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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#### Annex C (continued)

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.
	<ul> <li>design measures to make facility less obtrusive.</li> </ul>
	- 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.
	<ul> <li>safety precautions to protect the public.</li> </ul>
	<ul> <li>scheduling to avoid peak use periods.</li> </ul>
WATER QUALITY	<b>多</b> 则是特别的一种,不是一种的一种,但是一种的一种,但是一种的一种。
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.
	<ul> <li>selective spraying of herbicides.</li> </ul>
	- Mechanical erosion control.
Impedance of natural flow	- use and maintenance of appropriate stream crossing
streams/others surface waters.	device.
Ponding or channelization of surface	timing activities to stable ground conditions.
waters due to rutting.	- use of gravel roads.
Contamination of surface or ground	<ul> <li>spill control material and procedures readily available.</li> </ul>
waters through spills or leaks of toxic	- site selection where possible.
substances.	
Soil compaction/topsoil-subsoil mixing.	<ul> <li>avoidance of rutting by vehicles where possible.</li> </ul>
	- 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.
	<ul> <li>avoid trenching parallel to the fall of a slope.</li> </ul>