ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

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

Reticulation Powerlines and Ancillary Ser	vices TRADITION
Ratified and accepted by	2022 - 10
Environmental Practitioner	
Environmental Specialist	P.O. BOX 48
Head of Engineering Survey	
(one signature please)	Jan
Accepted by Land Owner/s/Users	9
I have seen the completed document and accept the	
recommendations made	.,,,,,,
Form completed by WETHING WHISignature:	
in consultation with: A·E Signature:	
CAPACITY (e.g. land owner, specialist): SENJOR ADMINI CO	FRICER
PATE COMPLETED: 03 - 10 - 2072	

### 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.
- 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 t 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.

1 Project description

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Annex	E
(continue	ď

Project name/Su Request Project number	Khwanda Pauline THT539063053	Area Tshimbupfe File number
Rural scheme/ Feeder		Voltage 11kv
,	pole numbers for tee-off)	
Supply to (Farm name, etc	5.)	
2 Properties		
Compilation num	nber and Division230LTber .2330.DCLine I	NONEUZEN Sub-division ength (m) 718.01m
Registration num	nber and Division	ength/Site area (m²)
	ription of the surrounding ar	ea
Flat sandy	ι hot , acacia trees and aç	gricultural area
***************************************		
Could the propose	osed project have an impact on or	be constrained by any of the following environmental
Encircle the appropriate possible negative	propriate aspect, giving a descriptio ve impact. Note that mitigating me 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 Physica	l environi	ment						
4.1 Water:	streams	rivers	dams	wetlands	springs	floodplains	OTHER	
Present cond	lition:	SIA						
Potential imp	act (e.g. thr	eat of poll						
4.2 Soil:	ean	dy	гос	ky	clayey	,	OTHER	
Present cond	dition: S.	H S	adj	1 Fi	$\mathcal{A}$			
Potential imp		erosion) . untains			ys ravines	dongas	OTHER	
Present cond	dition: oact (e.g. of	erosion)		(J)	cupe	Ţ		
Comments/n	nitigating me	easures:						
			Ń	D	1 w/s	)cd		
***************************************		***********	***************	***************************************		•••••••		
***************								

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•			(cor	ntinued)		
5 Nat	ural envir	onment				
5.1 Flo	ora:	indigenous	protected	exotic	OTH	ER
Brief de SCE Potenti 	al impact (e.g	conservation s M. J. g. permit applica mammals	tions DO	etc), mention trees/t	4 00	Tru
(e.g. ra	M CSAL	a threat of elect	giraffe, elephants	s, eagles, vultures, e		
	nents/mitigatir			Α		measures
,,,,,,,,				porms 1	rejune	d
6 So	ocial enviro	onment				
6.1 R areas		nature/game reserves	hiking trails	tourism routes	parks	recreational areas
Resid areas		green belts	sacred/holy grounds	OTHER	••	
Brief	description	***************************************	***************************************			***************************************

Annex B

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		Annex B		
Potential impact e.g. th	nreat of encroachr	nent, etc.		
6.2 Visual aesthetics	s: easily seen	hidden		partially
			manadisma (k. 1800) gang manamanakan sadisman (k. 1800) pakina apanahan k. 27 (k. 1800) papamanan	
Brief description	e Fr	c cleeb	16	Span
Potential impact		riro	uped	
6.3 Natural heritage		archaeological objects	monuments	palaeontological objects
	graves	meteorites	ruins	OTHER
Resource Act, No 25 the SAHRA. If line of	of 1999 be identifi r access road ler	led, the requiremen ngth exceeds 300m	SAHRA shall be	
Potential impact		100	1 000	
Comments/mitigating	measures	*****************************	***************************************	
7 Economic env	ironment			
• • • • • • • • • • • • • • • • • • • •	crops game farming	orchards forestry areas	grazing mining	crop spraying OTHER
Brief description	ed of	1h	land ,	is used

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Potential Impact	Λ	/D	rupar	***************************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
7.1.1 Commercial:	factories		shops	OTHER	Payn	~
Brief descriptionPotential impact	nere		*************************			(
		/V®	surpad			
7.1.2 Infrastructure:	rads pipelines	railways sewage	communications OTHER	power lines	air fields	
Brief description:	auf	noad exporm	to lar	10 10 11	902	
Potential impact		Ą	s any	part		
Comments/mitigating		,				•••
	JV.	ð	upart			

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			nex B onlinued)
What	Impact will this po	roject have on elements 4 to	•
No in	pact (0)	Medium impact (2)	High impact (4)
2. No iff 3.	Natural pact (0) Social	Medium impact (2)	Hlgh impact (4)
No in	pact (0)	Medium impact (2)	High impact (4)
Thic	all impact: section addresse e three spheres ()	physical, natural and social)	impact of the project. The impacts as assessed in the need to be considered to determine the overall impact 4
	No impo	act Medium impac	t High Impact
if the Envir	e overall impact conmental Senior	is between 2 and 4, co Superintendent.	ontact the Environmental Management Officer or the
Alte	natives		
Have	alternative route	s been discussed with the re	elevant land owner/s or users?
Yes No			
Deta	iled study		
ls an	environmental a	ssessment required in terms	of Regulation R543?
Yes No			
Sho	uld a permit applic	cation be made to DWA?	
Yes No			
Sho	uld the SAHRA be	e notified?	
Yes No	1		

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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.
- 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 yeld 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 c	onditions										
(Specific issue protected trees		during th	e scoping	j as ne	eding	attention	i.e.	erosion	berms,	bird	flappers,
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			******	**********			•••••				••••
									,	• • • • • • • •	***
				,,		************					
*******************											

### 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 solls.</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)

Acathotics	- screen with natural of planted vegetation restoration.
Aesthetics	- avoid linear access down the right-of-way.
	- addition of topsoil to gravel access roads.
	1 , , , , , , , , , , , , , , , , , , ,
,	
t	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.
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	- 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.
	<ul> <li>retain shrubby stream bank vegetation and selectively</li> </ul>
	cut or prune trees during line clearing/maintenance.
	selective spraying of herbicides.
	- 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.
	- spill control material and procedures readily available.
Contamination of surface or ground	
waters through spills or leaks of toxic	- site selection where possible.
substances.	avaldance of rutting hy vahidas where possible
Soil compaction/topsoll-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.	- avoldance 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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