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 Practitioner

Environmental Specialist

Head of Engineering Survey

(one signature please)

Accepted by Land Owner/s/Users

I have seen the completed document and accept the

recommendations made

KALEBTAI

A TO

Form completed by

5AM

.....Signature

dack

Signature

POSON

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

DATE COMPLETED 29/8/202

Instructions

Assessor/s

- 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 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/S	urvey	201
Request		Area Motopone
Project number	, Phatola Pagging	File number
Rural scheme/	Sackie	SEASON TO FE So.
Feeder	Jackil	Voltage 7340
Supply from	53K Freder	
(scheme name,	, pole numbers for tee-off)	
Supply to	Eskon	
(Farm name, et		
2 Properties	s traversed	
Farm name	Com of	Drenthe
	mber and Division 779 4	Sub-division
Compilation ou	mhor 2329 POS 1	ine length (m) 2.26.3
	mider	
		Sub-division
		ine length/Site area (m²)
Compliation nu	11001 L	ine lengthroite area (m.)
3 Brief desc	cription of the surrounding	2 2702
o bilei desc	suption of the surrounding	j area
R.	on l perchanteal o	ica soil is sandy
		yeass and small thank
440	1 CIH ST	yeass sua small lager
	F. SALTIE SHEW	
C	al I Marila	
Could the prop aspects?	losed project have an impact on	or be constrained by any of the following environment
		iption of the present state as well as an indication o measures for these impacts are to be included in

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Annex B (continued)

4 Physical en	vironment			
4.1 Water: st	reams rivers	dams wetlands	springs floodpla	ins OTHER
Present condition		r1103		
Potential impact (on): Nove		
4.2 Soil:	sandy	rocky	clayey	OTHER
Present condition	hand	sundy	s.u. /	
Potential impact (e	e.g. of erosion)	Non	f	
			rs ravines dongai	
Potential impact (e Comments/mitigat		None		***************************************
0::::::::::::::::::::::::::::::::::::::		None		
HEREN PRINCE LANGUE COMMISSION				

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5 Natural en	vironment		Annex B continued)			
5.1 Flora:	indigenous	protect	ed	exotic	ОТ	HER
Brief description						4
Potential impact	(e.g. permit appli	cations	1 w	and la		
5.2 Fauna:	mamm	als	birds		OTHER	Constitution of the second
Brief description (e.g. rare, protect			nts, eagles,	vultures, etc	c., mention i	migratory paths)
On '9 Potential impact	cattle	S PAH				
		Nove				
Comments/mitiga	ating measures	į				
		Nore				
6 Social envi	ironment					
6.1 Restricted areas:	nature/game reserves	hiking trails	tourism r	routes	parks	recreational areas
Residential areas	green belts	sacred/holy grounds	OTHER	IF HIM WEN		
Brief description	Rural	residen	Hal	area		
Potential impact	e.g. threat of end	roachment, etc.	Amel			

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		(continued)		
6.2 Visual aestheti	cs: easily seen	hidden		partially
Brief description	vill be	hudden	in Ville	2yc
				0
*********************	***************************************			
Potential impact		Nov		
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 Potential impact	of 1999 be identi or access road le		s of Act 25 of 1999 SAHRA shall be	shall be followed by not
the SAHRA. If line	of 1999 be idention access road le	fied, the requirement ngth exceeds 300m	s of Act 25 of 1999 SAHRA shall be	shall be followed by not
Resource Act, No 25 the SAHRA. If line of	of 1999 be idention access road le	fied, the requirement ngth exceeds 300m	s of Act 25 of 1999 SAHRA shall be	shall be followed by not
Resource Act, No 25 the SAHRA. If line of Potential impact	of 1999 be idention access road le	fied, the requirement ngth exceeds 300m	s of Act 25 of 1999 SAHRA shall be	shall be followed by not
Resource Act, No 25 the SAHRA. If line of Potential impact	of 1999 be idention access road le	fied, the requirement ngth exceeds 300m ar flam 3	s of Act 25 of 1999 SAHRA shall be	shall be followed by noti notified.
Resource Act, No 25 the SAHRA. If line of Potential impact	of 1999 be idention access road le	fied, the requirement ngth exceeds 300m as flam 3	s of Act 25 of 1999 SAHRA shall be	shall be followed by noti notified.
Resource Act, No 25 the SAHRA. If line of Potential impact	of 1999 be idention access road le	fied, the requirement ngth exceeds 300m as flam 3	s of Act 25 of 1999 SAHRA shall be	shall be followed by noti notified.

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Annex B (continued)

7.1.1 Commercial: factori			shops	OTHER			
Brief description Potential Impact		1. V	Ming Tox				
7.1.2 Infrastructure:	roads pipelines	railways sewage	communications OTHER	power lines	air fields		
Brief description:	a gr	urel nou	d in a	ed			
Potential impact		10	Υ				
Comments/mitigating	measures:		,				
			one				
	500000000000000000000000000000000000000						

No

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			Ann	ov B	
			(conti		
Wha	t impact will thi Physical	s project have on	elements 4 to 7?		
No in	npact((ii))	Medium imp	act (2)	High impact (4)	
2.	Natural				
No in	npact (0)	Medium imp	act (2)	High Impact (4)	
3.	Social				
No in	npact (0)	Medium imp	act (2)	High impact (4)	
This	all impact: section addres e three sphere	s (physical, natur	environmental imp al and social) nee	pact of the project. To do to be considered to	The impacts as assessed in the determine the overall impact
			Medium impact	High impact	
Have	natives	utes been discuss	ed with the releva	ant land owner/s or us	ers?
Yes No					
Deta	iled study				
ls an	environmental	assessment requ	uired in terms of F	Regulation R543?	
Yes No					
Shou	ıld a permit app	olication be made	to DWS?		
Yes No					
	ld the SAHRA	be notified?			
Yes					

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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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2 Special cond

(Specific issues identified protected trees, etc.)	during	the	scoping	as	needing	attention	i.e.	erosion	berms,	bird	flappers
Cut In	Jara	6									1376 1386
SAHA	А	10	be		104/	red			************		****

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	- 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.
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	- spill control material and procedures readily available.
waters through spills or leaks of toxic	site selection where possible.
substances	- Site Sciection 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.
was and the second seco	 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.