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 documen	nt and accept the
recommendations made	
	Assessor/s
Form completed by FC TAK	(ALAN) Signature: Stateship
in consultation with: KJ LA	MB Signature: SEE BELOW!
CAPACITY (e.g. land owner, specia	alist):
DATE COMPLETED: 25 JU	INE 2021

Instructions

- 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.

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1 Project description

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Project name/Si Request	EJ LAMB SVW418599157	Area VAALWATER
Project number	SVW418599157	File number
Rural scheme/ Feeder	VS VS219/24/20	
Supply from	V5219/24/20	
scheme name, Supply to	pole numbers for tee-off) EJ LAMB (R	EM. PTN 9
Farm name, etc	c.)	

2 Properties traversed

Farm name	= H/17	ホアニ		
Registration number a	ınd Division	74 -KR	Sub-division	40
Compilation number		Line length	(m)III.w1	
Farm name	ZAND DRIF	<i>T</i>	*******************************	
Registration number a	ınd Division	94 -KR	Sub-division REM	. PTN9
Compilation number		Line length/s	Site area (m²)	พ
3 Brief description	2.11			20
4 Brief description	an of the surrou	inding area		

3 Brief description of the surrounding area

PREDOMINANTLY GAME FARMING

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 Physical environment
4.1 Water: streams rivers dams wetlands springs floodplains OTHER
Present condition: DAM NEXT TO EXISTING MY LINE & T-OFF
Potential impact (e.g. threat of pollution): NO IMPACT
4.2 Soil: Sandy OCKY clayey OTHER
Present condition: SANDY & ROCKY SOIL
Potential impact (e.g. of erosion) NO IMPACT
4.3 Topography mountains ridges hills valleys ravines dongas OTHER
Present condition: NONE Potential impact (e.g. of erosion) NONE
Comments/mitigating measures:

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5 Natural en	vironment				
5.1 Flora:	indigenous	protecte	ed exc	otic	OTHER
					ss)
5.2 Fauna:	mamm	als	birds	ОТН	HER
Brief description	and conservation	n' status:			
(e.g. rare, protec BUFFALO	ted, etc., mention	n giraffe, elephar +MPALA	nts, eagles, vultu 4 SPLINGBO	res, etc., menti K., BLAC	on migratory paths) K_WILDEBEEST
Potential impact	(e.g. threat of ele	ectrocution, collis	ion, etc)	WE.	
***************************************	******************	********************			
Comments/mitiga	ating				measures:
, ,	9				
N/./1					
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	GAME	FARM	NO-		

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Annex B (continued) Potential impact e.g. threat of encroachment, etc									
6.2 Visual aesthetic	cs: easily seen	hidden		partially					
7-11		CAN BZ		LONG FARM					
Potential impact	NONE								
6.3 Natural heritage	e: cultural significance	archaeological objects	monuments	palaeontological objects					
	graves	meteorites	ruins	OTHER					
Resource Act, No 25 the SAHRA. If line of	of 1999 be identifie or access road leng	d, the requirements of the exceeds 300 m S	of Act 25 of 1999 SAHRA shall be	ned in the National Heritag. I shall be followed by notifying notified.					
Comments/mitigating									
7 Economic en									
7.1 Land use:	crops game farming	orchards forestry areas	grazing mining	crop spraying OTHER					
Brief description		DOMINAT	ED BY	GAME					

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Potential impact	ONE				
7.1.1 Commercial:	factories	s	hops	OTHER	
Brief descriptionN. Potential impactN	IONE				
7.1.2 Infrastructure:	roads		communications		
Brief description:		***************************************			
Potential impact	ONE				
Comments/mitigating	measures:				
N/A	••••••				

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Annex	E
(continue	d

			nnex B ontinued)	
What	impact will this p Physical	project have on elements 4 to	7?	
No im	npact (0)	Medium impact (2)	High impact (4)	
2.	Natural			
No irr	npact (0)	Medium impact (2)	High impact (4)	
3.	Social			
No im	npact (0)	Medium impact (2)	High impact (4)	
This	all impact: section address e three spheres	es the overall environmental (physical, natural and social)	impact of the project. The impact need to be considered to determine 4	ts as assessed in the e the overall impact
	No imp	pact Medium impac	t High impact	
If the Envir	e overall impactonmental Senior	t is between 2 and 4, co Superintendent.	ontact the Environmental Manage	ement Officer or the
Alter	natives			
Have	alternative route	es been discussed with the re	elevant land owner/s or users?	
Yes No				
Deta	iled study			
Is an	environmental a	assessment required in terms	of Regulation R543?	
Yes No				
Shou	ıld a permit appli	cation be made to DWA?		
Yes No				
Shou	ıld the SAHRA b	e 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.
- 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 yeld. 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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-		1747
-,	Shocial	conditions
_	ODCCIA	COHUIGIN

(Specific protected		identified etc.).	during	the	scoping	as	needing	attention	i.e.	erosion	berms,	bird	flappers
No	NE	**************************************											

									11574-1757-17				

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.
WATER OUALITY	- scheduling to avoid peak use periods.
WATER QUALITY	miniming use of clance adjacent to strange during pails
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.
Ot	
Stream bank erosion.	in the first term of the second and and additional terms.
	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
Impedance of natural flow 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.	avoidance of rutting by vahicles 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.
	use of venicles with low bearing pressures. stop activities when ground conditions are poor.
	stop activities when ground conditions are poor. avoidance of areas with high erosion potential.
Wind/water erosion.	1
	slope stabilisation. mechanical erosion control.
	- mechanical erosion control. - vegetation erosion control.
	- recompaction of trenches.
	- avoid trenching parallel to the fall of a slope.
	- avoid trenching parallel to the fall of a slope.