ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

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Annex B - Distribution Environmental Screening Document (DESD)

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 Werld	
I have seen the completed document and accept the recommendations made	
Assessor/s // /	
Form completed by T. HGOBETT, Signature T. Market,	
in consultation with: Q-DA V.Q. Merwe Signature: Relation	
CAPACITY (e.g. land owner, specialist): ford owner	
DATE COMPLETED: 2017 /06 /07	
DATE COMPLETED: DOT! / OD / O/	

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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Annex B (continued)

1 Project description
Project name/Survey Request VAH DER MERWE Area MARRIE HALL Project number CMH 20120332.6 File number Rural scheme/ Feeder VARI PONTEIN MORTH Voltage Supply from VEN 123 / /2 — VEN 123 / /2 (scheme name, pole numbers for tee-off) Supply to ERIEMING. (Farm name, etc.)
2 Properties traversed Farm name LOSKOP NOOR D 12/668 JS Registration number and Division 12/668 Sub-division JS Compilation number Line length (m) 388, 498 M Registration number and Division Sub-division Compilation number Line length/Site area (m²)
3 Brief description of the surrounding area The asea is flat the type of seit is saudy. and the asea is a familye
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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	(contin	ued)	
4 Physical environment			
4.1 Water: streams river			plains OTHER
Present condition:	of the above	e menton	d
Potential impact (e.g. threat of p	ollution):	, , ,	
		impact:	
4.2 Soil: Sandy	rocky	clayey	OTHER
Present condition: Tage	of soil	s sandy:	
Potential impact (e.g. of erosion	State of the state		
4.3 Topography mountains	ridges hills valle	eys ravines don	gas OTHER
Present condition: Move	of the	above me	Honed.
Potential impact (e.g. of erosion	No impac	<i>t</i>	
Comments/mitigating measures			
	A		
	THE RESIDENCE OF THE PARTY OF T		

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			Annex B (continued)			
5 Natural er	vironment					
5.1 Flora:	indigenous	protect	ted	exotic	0	THER
Brief description	and conservation	status (e.g. ra	re, etc., men	tion trees/b	ush/grass)	House of
Potential impact	(e.g. permit appli	cations				
***************************************		He	2. INFRA	ct		******************************
5.2 Fauna:	mamma	als	birds		OTHER	
Brief description	and conservation					
Contract of the Contract of th	and conservation sted, etc., mention	10.100.000.000	nto coolee			C. P. C. C. C. C. C. M. C. V.
The	acrea has	girane, elepha	nis, eagles,	vultures, et	ros mention	migratory paths)
			***************************************		*************	
Potential impact	(e.g. threat of ele	ctrocution, colli	sion, etc)			
***************************************				Imp	art.	
	(2.11.11.11.11.11.11.11.11.11.11.11.11.11					
Comments/mitig	ating					measures
						measures
		7.				*******************
	H	A				*****************

6 Social env	ironment					
6.1 Restricted	nature/game	hiking trails				
areas:	reserves	many trans	tourism ro	outes	parks	recreational areas
Residential- areas	green belts	sacred/holy grounds	OTHER.	FARMING	2	
Date of the second	There is		Санты			

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Potential impact e.g. thr	reat of encroachi			
**********			impact:	
6.2 Visual aesthetics:	easily seep	hidden		partially
	Are is		n but	is inside the
Potential impact				
6.3 Natural heritage:		archaeological objects	monuments	palaeontological objects
	graves	meteorites	ruins	OTHER
Note: Should any na Resource Act, No 25 of the SAHRA. If line or a	1999 be identifi	ed, the requirements	of Act 25 of 199	ined in the National Heritage 9 shall be followed by notifying notified.
Potential impact Ma	one of	the above	e ment	fored:
Comments/mitigating m	easures			
		4		
7 Economic envir	onment			
7.1 Land use: cre	ops	orchards	grazing	crop spraying
ga	me farming	forestry areas	mining	OTHER
Brief description	land chards:	is occupie	d for o	live and grape

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		70.735	ntinued)	
Potential impact	o impa	c.f		
.1.1 Commercial:	factories		shops	OTHER
Brief description				
otentia impaci	A CONTRACTOR OF THE PARTY OF TH			
7.1.2 Infrastructure:	roads pipelines		communication	power lines air fields
Brief description: Te	re is e w. new	xisting Time	powerlone	where we joined
otential impact	No im,	eact.		
Comments/mitigating	measures:			
		11/4		
			,,,	

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	7.55	nnex B ontinued)
What impact will this 1. Physical	project have on elements 4 to	77
No impact (0) ~	Medium impact (2)	High impact (4)
2. Natural		
No impact (0) ~	Medium impact (2)	High impact (4)
3. Social		
No impact (0) \checkmark	Medium impact (2)	High impact (4)
above three spheres	ses the overall environmental (physical, natural and social)	impact of the project. The impacts as assessed in the need to be considered to determine the overall impact
	pact Medium impac	t High impact
Library which modifies a south	too been discussed with the re	dought land ourserle or users?
Have alternative rour Yes	tes been discussed with the re	elevant land owner/s or users?
	tes been discussed with the re	elevant land owner/s or users?
Yes	tes been discussed with the re	elevant land owner/s or users?
Yes No	tes been discussed with the re	
Yes No Detailed study Is an environmental Yes		
Yes No Detailed study Is an environmental		
Yes No Detailed study Is an environmental Yes No		
Yes No Detailed study Is an environmental Yes No Should a permit app	assessment required in terms	
Yes No Detailed study Is an environmental Yes No Should a permit app	assessment required in terms	
Yes No Detailed study Is an environmental Yes No Should a permit app	assessment required in terms Lication be made to DWA?	
Yes No Detailed study Is an environmental Yes No Should a permit app Yes No	assessment required in terms Lication be made to DWA?	

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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.
- 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 veid.
- 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
- 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.
- A proper system of waste management shall be instituted in the construction camp. This entails 1.15 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.
- All excavations shall be enclosed to prevent animals or people from accidentally falling into 1.20 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 Eskorn Environmental Practitioner and the SAHRA.

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Annex C (continued)

2 Special conditions	
(Specific issues identified during the scoping as needing attention i.e. erosion berms, bird flappers protected trees. etc.).	-
/A	

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 planter avoid linear access down the addition of topsoil to gravel a hoarding construction sites installation of landscaping in completion. 	e right-of-way. access roads. advance of site
Inconvenience	select route and method of ir landowners' conditions. select timing of activity.	istallation to suit
Heritage resources	avoidance/isolation, design measures to make fa screening, alternate methods of equipm protection by use of enclosur covering, salvage in conjunction with 5 relocation in conjunction with	nent. res, barrier fencing, SAHRA. n SAHRA.
Tourism and recreation resources	design measures to make fa disruptive: screening and restoration. minimise noise and dust: safety precautions to protect scheduling to avoid peak use.	the public.
WATER QUALITY		
Sedimentation of streams due to erosion from the right-of way. Stream bank erosion.	- minimise use of slopes adjactesting, construction and ma - maintain a cover crop retain buffers mechanical erosion control retain shrubby stream bank cut or prune trees during line selective spraying of herbicic Mechanical erosion control.	intenance, vegetation and selectively a clearing/maintenance.
Impedance of natural flow streams/others surface waters.	 use and maintenance of app device. 	
Ponding or channelization of surface waters due to rutting.	 timing activities to stable gro use of gravel roads. 	
Contamination of surface or ground waters through spills or leaks of toxic substances.	 spill control material and pro site selection where possible 	
Soil compaction/topsoil-subsoil mixing.	avoidance of rutting by vehicle construction timing. use of gravel roads. use of vehicles with low beaution stop activities when ground.	ring pressures. conditions are poor.
Wind/water erosion,	avoidance of areas with high timing activities to the most slope stabilisation. mechanical erosion control. vegetation erosion control. recompaction of trenches. avoid trenching parallel to the	n erosion potential. stable ground conditions.
	20 man and the second s	

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