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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

Charles Mehlape.

run Seuli

I have seen the completed document and accept the

recommendations made

Form completed by

in consultation with : C. Mchape

Assessor/s Signature: ..

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

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.

Environmental Management Programme.

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Annex B (continued)

1 Project description
Project name/Survey Request Kolmujou Troicing Area Policiance Manager 9 Project number Rural scheme/ Supply from SMT 112 Yu scheme name, pole numbers for tee-off 12 Supply to SMT 118 Yu 12 Farm name, etc.)
2 Properties traversed
arm name Rietfontein
Registration number and Division 1003 US Sub-division 3 84
Compilation number 2 829 00 Line length (m) 1, 926 Km
arm name
Registration number and Division
Compliation number Line length/Site area (m²)
Brief description of the surrounding area
New oill for elettrification of Boveral Figt great line pegged next to gravel Linad , Dense Vegetontlant Rocky soil Janual Stream I near primposuse.
Could the proposed project have an impact on or be constrained by any of the following environmental species?

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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

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4 Physical en	vironment				
4.1 Water: St	reams rivers	dams wetlands		plains OTHER	
Present condition	Sno	l Stream	Done Pu	nphouse	
Potential Impact (e.g. threat of poll	ution): U[A]			
4.2 Soil:	sandy	(OOK)	clayey	OTHER	
Present condition:					
Potential impact (e		None		8	
4.3 Topography	mountains .	ridges hilis valle	ys ravines don	gas OTHER	
Present condition:		rea With	hills in v	cinety	
Potential impact (e	e.g. of erosion) .	Nove		A	
Comments/mitigat	ing measures:				
None .	***************************************				

Brief description ... None

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			(continued)			
5 Natural en	vironment					
5.1 Flora:	Indigenous	protec	ted	exotic	01	HER
Brief description		n status (e.g. ra	re, etc., men	tion trees/b	ush/grass).	None
Potential impact	(e.g. permit app		3			
5.2 Fauna:	mamn	nals	birds		OTHER	Commence of the Commence of th
Brief description (e.g. rare, protec			ints, eagles,	vultures, et	c., mention	migratory paths)
Potential Impact	(e.g. threat of el	ectrocution, colli	sion, etc)		•	
Comments/mitig	ating					measures:
None		***************************************				
6 Social envi	ironment					
6.1 Restricted areas:	nature/game reserves	hiking trails	tourism re	outes	parks	recreational areas
Residential- areas	green belts	sacred/holy grounds	OTHER	corrections		

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Potential Impact e.g.	hreat of encroach	Annex E (continued ment, etc. NF		
6.2 Visual aesthetic	s: (asily seen) hidder		partially
Brief description	ew route	next to	o grave	el road
Potential impact		***************************************		
3.3 Natural heritage	cultural significance	archaeological objects	monuments	palaeontological objects
	graves	meleorites	ruins	OTHER
Resource Act, No 25 he SAHRA. If line of cotential impact	of 1999 be identifi access road len	ed, the requirement	s of Act 25 of 19 SAHRA shall b	111
comments/mitigating	measures			
SAHRA 1	Whica	tian		
Economic envi	ronment			
.1 Land use: c	rops	orchards	grazing	crop spreying
	ame familing	forestry areas		
9	arrie rarrining	iorestry areas	mining	OTHER

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Potential impact .	None		***************************************	
7.1.1 Commercia	al: factories		shops	OTHER
Brief description .	None	***************************************		
7.1.2 Infrastructo	pipelines POWEY LINES	railways sewage	communications OTHER	Harman III Hords
Potential impact	N/F			
Comments/mitiga	iting measures:			

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				100000000000000000000000000000000000000
			nnex B	
What impact	will this project ha	ve on elements 4 to		
No impac	Mediur Mediur	n impact (2)	High impact (4)	
2. Natu No impac (0	7	n impact (2)	High impact (4)	
3. Soci		n impact (2)	High impact (4)	
Overall imps This section above three	addresses the over	erall environmental natural and social) r	impact of the project. Theed to be considered to	The impacts as assessed in the determine the overall impact
	No impact	Medium impact	High impact	
Alternatives	ai Senior Superinte	ndent.	evant land owner/s or us	Management Officer or the
	V 2000 00011 011	adoped with me res	rvant latitu Owner/s or us	ers?
Yes	-			
TE STATE OF THE ST				
Detailed stu	dy			
Is an environ	mental assessmen	required in terms of	Regulation R543?	
Yes				
No				
Should a pen	nit application be n	nade to DWA?		
Yes	_			
No				
Should the SA	AHRA 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.
- 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 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 amployees 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

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- 1.13 If any vehicle should get stuck, the damage shall be repaired immediately so that no deep ruts remain.
- 4.14 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 spliled 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 veid. If no tollet 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 failing 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 conditions

(Specific issues identified during the scoping as needing attention i.e. erosion berms, bird flappers, protected trees, etc.).

Shire Notification

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.
Topsoll – 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	The state of the s
Mud and Dust	wetting down dry soils. chemical control of dust. cleaning roads to remove mud. temporary planting of grasses.

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(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. 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. 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 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. 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.

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