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		Vhamusanda Vho Luvhola/vhutuw Contact: 082	R.L. Davhana angadzebu 071.7270
Head of Engineering Survey	***************************************	Contact: 082	250
(one signature please)		21 (55)	·
Accepted by Land Owner/s/Users		Date	
I have seen the completed document	and accept the	Signature:	
recommendations made		······	
	Assessor	15 700M L	
Form completed by MALLA.	♪ MSignature: .!		
. Reche	avva Signatura 1	(A getilion	
III CONSUITATION WITH A PARTITION OF THE	Toutho	sal lander	
CAPACITY (e.g. land owner, specialis	st): .X		
DATE COMPLETED: X 29 17	rch 202'e) 	

Instructions

- 1. Fill the report in as neatly and completely as possible.
- 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

Project name/Sur Request Project number Rural scheme/ Feeder	Sheviey RMP	0 , 0	Thoh Area File number Voltage			
Supply from scheme name, p Supply to Farm name, etc	pole numbers for tee-o	off)				
2 Properties	traversed		11			
Compilation nun Farm name Registration nun	nber and Division nber nber and Division	Line lo	ength (m) Sub-d	ivision18m		
3 Brief desc	ription of the sur					
Dex l	s is Moun		s gr road			
achects?	osed project have an					
Encircle the ap	propriate aspect, givi ve impact. Note that I Management Progra	mitigating me	on of the preser casures for the	it state as well se impacts are	as an indicatior to be included	of the

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4 Physical e	nvironment			
4.1 Water:	streams rivers d	ams wetlands	springs flood	plains OTHER
Present condition	on: Streams	ς		
Potential impac	t (e.g. threat of pollution	on):		
	<i>Wro</i> rwi	um ing	oaet	
4.2 Soil:	sandy	rocky	clayey	OTHER
Present condition	on: Sandy	and r	ocky	
Potential impact		lges hills valle	eys ravines do	ngas OTHER
Present conditi	ion: mouta	ineous		
Potential impac	ct (e.g. of erosion)	minimul	n impo	et
Comments/mit	igating measures:			
•••••				

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onment						
indigenous	protected	exotic	OTHER			
mammals	birds	Manufacture of the Control of the Co	OTHER			
Brief description and conservation status: (e.g. rare, protected, etc., mention giraffe, elephants, eagles, vultures, etc., mention migratory paths)						
	indigenous d conservation st g. permit applicat mammals d conservation s	(continue conment conment conment conment conservation status (e.g. rare, etc., respectively) and conservation status conservation status:	indigenous protected exotic d conservation status (e.g. rare, etc., mention trees/bus g. permit applications	(continued) conment indigenous protected exotic OTHER		

N/A

Potential impact (e.g. threat of electrocution, collision, el	
Comments/mitigating	measures:

6 Social environment	

6.1	Restricted	nature/ga
are	as:	reserves

hiking trails ure/game

tourism routes

parks

recreational areas

Residential-

green belts

sacred/holy grounds

OTHER

Brief description $V'' \parallel a a Q$

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		Annex B (continued)	r a	a L	
Potential impact e.g. t	hreat of encroach	ment, etc	unimum.	IMPALA	
6.2 Visual aesthetic		hidden		partially	
Brief description	no 15 18 but	along 1 with be	the fen	ce/boundarios	
Potential impact	Minimum	, Impau	Ł		
6.3 Natural heritage	: cultural significance	archaeological objects	monuments	palaeontological objects	
	graves	meteorites	ruins	OTHER	
Note: Should any Resource Act, No 25 the SAHRA. If line o	of 1999 be identif r access road ler	ied, the requirement ngth exceeds 300m	s of Act 25 of 1999 SAHRA shall be	ned in the National Heritage shall be followed by notifying notified.	;
Comments/mitigating	measures				
7 Economic env	rironment				
	crops game farming	orchards forestry areas	grazing mining	crop spraying OTHER	
Brief description	Crops	and gra	zing in	the village	/

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Potential impact	Malaym La	4.120.tt	
7.1.1 Commercial:	factories	shops	OTHER
Brief descriptionS./	mall shags minimum	mpact	the 1,1/1 age
7.1.2 Infrastructure:	roads railways pipelines sewage		power lines air fields
			affecting
Potential impact	าไกโดนด !!	npa et	
Comments/mitigating	measures:		

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	Anne (contir	
What impact will this pro	oject have on elements 4 to 7?	
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)	Medium impact (2)	High impact (4)
above three spheres (p	s the overall environmental imphysical, natural and social) need	pact of the project. The impacts as assessed in the ed to be considered to determine the overall impact
No impa		High impact
If the overall impact Environmental Senior	is between 2 and 4, conta Superintendent.	act the Environmental Management Officer or the
Alternatives		
Have alternative route	s been discussed with the relev	ant land owner/s or users?
Yes		
Detailed study		
-	ssessment required in terms of	Regulation R543?
Yes		
No		
Should a permit applic	cation be made to DWA?	
Yes No	and the second s	
Should the SAHRA be	e notified?	
Yes		

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Annex C - Environmental Management Plan (Normalive)

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.
- 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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Annex C (continued)

2 S	pec	ial co	nditions							
		issues trees.	,				attention			
				 	,	 		• • • • • • •	 	

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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A 41 12		
Aesthetics	- scr	een with natural of planted vegetation restoration.
	- avc	oid linear access down the right-of-way.
		dition of topsoil to gravel access roads.
	- hoa	arding construction sites.
	- inst	allation of landscaping in advance of site
		npletion.
Inconvenience		ect route and method of installation to suit
		downers' conditions.
	- sel	ect timing of activity.
Heritage resources		oidance/isolation.
	- des	sign measures to make facility less obtrusive.
	- scr	eening.
	- alte	rnate methods of equipment.
	- pro	tection by use of enclosures, barrier fencing,
		ering.
	- salv	rage in conjunction with SAHRA.
	- relo	ocation in conjunction with SAHRA.
Tourism and recreation resources	- des	ign measures to make facility less obtrusive of
		ruptive.
		eening and restoration.
		imise noise and dust.
		ety precautions to protect the public.
		eduling to avoid peak use periods.
WATER QUALITY		y a treat pour doo
Sedimentation of streams due to	- min	imise use of slopes adjacent to streams during soils
erosion from the right-of way.	test	ing, construction and maintenance.
,,,,,,,,,,,,,	- mai	ntain a cover crop.
		in buffers.
Stream bank erosion.		chanical erosion control.
		in shrubby stream bank vegetation and selectively
	cut	or prune trees during line clearing/maintenance.
	- sele	ective spraying of herbicides.
		chanical erosion control.
Impedance of natural flow		and maintenance of appropriate stream crossing
streams/others surface waters.	dev	
Ponding or channelization of surface		
		ng activities to stable ground conditions.
waters due to rutting.		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.	- avoi	dance of rutting by vehicles where possible.
Ť		struction timing.
		of gravel roads.
	- use	of vehicles with low bearing pressures.
	- stop	activities when ground conditions are poor.
Wind/water erosion.	- avoi	dance of areas with high erosion potential.
	- timir	ng activities to the most stable ground conditions.
		e stabilisation.
		hanical erosion control.
		etation erosion control.
	_	impaction of trenches.
		d trenching parallel to the fall of a slope.
	4,01	a tronorming parallel to the fall of a slope.