PERMIT REGUIRED

Document Classification: Controlled Disclosure

ENVIRONMENTAL IMPACT ASSESSMENT FOR

DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

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Annex B - Distribution Environmental Screening Document (DESD) (Informative)

Reticulati	on Powerlines and	Ancillary Services	
Ratifled and accepted by Environmental Practitione	·	Supported Alluhata	
Environmental Specialist	(Mellys)	31/07/2014	
Head of Engineering Survey (one signature please) Accepted by Land Owner/s/Users	x B. L. Chy	logae	
I have seen the completed docume recommendations made	X WAJHIG	SELA TRADITIONAL	AUTHORIT
Forms completed by	Assessor/s		
n consultation with: XBL (MCSYNGignature: X	Blibulvane	
CAPACITY (e.g. land owner, spec	ialist) X MENDIN 3014		

Instructions

- 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 Policias
- 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 it insufficient space has been provided.

MATINGELA TRADITIONAL AUTHORITY THE HEADMAN CHILOANE L.B.

2014 -07- 16

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Document Classification: Controlled Disclosure ENVIRONMENTAL IMPACT ASSESSMENT FOR Unique Identifier: 240-72597722 DISTRIBUTION ACTIVITIES Revision: Page: 19 of 70 Annex B (continued) 1 Project description Project name/Survey Request Sanford Villade Elec Project number Rural scheme/ Voltage and Feeder Supply from (scheme name, pole numbers for tee-off)
Supply to KOA 82 / 11 | 16 (Farm name, etc.) 2 Properties traversed Farm name Registration number and Division 291 LU Sub-division

Compilation number 2031 CC Line length (m) New MV- 0, 8 5 6 km

Farm name

People Farting and Division 291 LU Sub-division

New LV = 1, 716 km Registration number and Division ______ Sub-division _____ Compilation numberLine length/Site area (m²) 3 Brief description of the surrounding area

Could the proposed project have an impact on or be constrained by any of the following environmental aspects?

SOUNTS CHAIR B OND PURCH CHIRTHING CM

Encircle the appropriate aspect, giving a description of the present state as well as an indication of the possible negative impact. Note that miltigating measures for these impacts are to be included in the Environmental Management Programme.

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(continue	d)

	indigenous	protect	ted exo	lic ·	OTHER
HORUM	trees 1	Rim Cut	Schroca	and bile	ss)
Potential impac	t (e.g. permit app	lications A. Jasy		<u> </u>	
5.2 Fauna:	mamn		birds	·	4ER
	n and conservation		nts. eagles, vultur	es, etc., ment	ion migratory paths)

		ectrocution, colli	sion, etc)		***************************************
***************************************		M	************************		
Comments/mitic 10 160 01 1700	gating RS Ose PEMil	lo ba licensa M	cut/trio	nmad	Wikat measum

S Social env				*****************	
*******************		hiking trails	townsm routes	parks	recreational areas

4 Physical

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			(continue	ed)		
environi	nent					
streams	rivers	dams	wetlands	springs	floodolains	ОТН

Annex B

4.7	vvater:	streams	rivers	dams	wetlands	springs	floodolains	OTHER
Pre	sent cond							
Pot		act (e.g. thr	eat of pollut	ion):	************	************		
****				¥		*************		
4.2	Soll:	sand	dy	rock	:y	claye	Ď	OTHER
Pre	sent condi	ition:が	N.O.	CKAY	£	RCC	X	
								OTHER
Pre Я Pote	sent condi E141/ ential impa	ition: \ill\d hh\\\d act (e.g. of e	VIOE C RUVI Prosion)	TEI TEI Qu	AUNTOA 5007 O	M MC	Culfifuut coptrui	s Ward
Соп	nments/mi	itigating me	asures:	(uvu)				, , , , , , , , , , , , , , , , , , , ,
		* ***** ******************************			**************	************************		

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Potential impact e.g.		Annex B (continued) ment, etc		
6.2 Visual aesthetic		hidden		partially
Brief description				
6.3 Natural heritage	c cultural significance graves	archaeological objects meteorites	monuments	palaeontological objects OTHER
Resource Act, No 25 the SAHRA. If Iline o Potential impact	natural hedtage re of 1999 be Identifie r access road leng	asource as listed a d, the requirements gth exceads 300m (oove, or as defin of Act 25 of 1999 SAHRA shall be r	ed in the National Heritage shall be followed by notifying
7 Economic env	*****			
	crops game farming	orchards forestry areas	grazing mining	crop spraying
Brief description	*****	Fir		

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Annex B (continued)

Potential impact	/	Fire		***************************************
7.1.1 Commercial:	factories		shops	OTHER
Brief description		File		
7.1.2 Infrastructure:	(roads) pipelines	railways sewage	communications (pc	wer lines air fields
NU LIMI	Ē.S	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Duights B	
Potential impact	NG			
Comments/mitigating				
	IM		***************************************	

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Anne (contin		
What impact will this project have on elements 4 to 7? 1. Physical		
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)	
Overall impact: This section addresses the overall environmental impropose three spheres (physical, natural and social) need 0 2		
No impact Medium impact	High impact	
If the overall impact is between 2 and 4, contac Environmental Senior Superintendent.	t the Environmental Managem	ent Officer or the
Alternatives		
Have alternative routes been discussed with the relevant	nt land owner/s or users?	
Yes		
Detailed study		
Is an environmental assessment required in terms of Re	egulation R543?	
Yes No		
Should a permit application be made to DWA?		
Yes No		
Should the SAHRA be notified?		
YesNo		

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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 fit 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 tandowners, tenants and the local community.
- 4.10 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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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 tollet 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.
- 1.47 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)

Special condition

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

Permit & Sahva

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	- focate 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/lenant regarding preferences.
Lass 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 tost, migrat fivestock.
SOCIAL IMPACTS	
Mud and Dus!	 wetting down dry soils. chemical control of dust cleaning roads to remove mud. temporary planting of grasses.

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	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.
Table	- 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.
NATO TOTAL COLOR OF THE PARTY O	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.
Immodulan	- Mechanical erosion control.
Impedance of natural flow streams/others surface waters.	 use and maintenance of appropriate stream crossing 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-subsoit 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 crosion.	 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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