

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

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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	X	
I have seen the completed document	t and accent the	
recommendations made	127014/8/20 127T	
	Assessor/s	
Form completed by	Signature:	
in consultation with:	Signature: Malulelce 177/X	
CAPACITY (e.g. land owner, specialis	ist):	×
DATE COMPLETED:		

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 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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1 Project description

Project name/Survey	
Request	Area
Project number	File number
Rural scheme/	
Feeder	Voltage
Supply from	
(scheme name, pole numbers for tee-off)	
(Farm name, etc.)	
2 Properties traversed	
Farm name	
Registration number and Division	
Compilation number L	
Farm name	
Registration number and Division	
Compilation number L	
3 Brief description of the surroundin	g area
Existing overhead line next to gravel road between Ns	simbi and Nghezimani villages.
	ery dence sekelbushes.
	n or be constrained by any of the following environmental

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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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Annex B (continued)

4 Physic	al environ	ment						
4.1 Water:	streams	rivers	dams w	vetlands	springs	floodplains	OTHER	
Present con	dition: None							
Potential im	pact (e.g. thre	eat of pollut	ion): NA					
4.2 Soil:	sand	dy	rocky	′	clayey	, (OTHER	
Present con								
Potential im								
							OTHER	
Present con	dition: Flat							
Potential im	pact (e.g. of							
Comments/i	mitigating me	asures:						

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5 Natural env	vironment					
5.1 Flora:	indigenous	protecte	ed exotio	0	THER	
Brief description None to be aff	and conservation	n status (e.g. rar	e, etc., mention tre	es/bush/grass)		
5.2 Fauna:	mamm		birds		₹	
None	ted, etc., mention	n giraffe, elepha	nts, eagles, vulture			
			sion, etc).NA			
Comments/mitiga					measure	:S:
6 Social envi						
6.1 Restricted areas:	nature/game reserves	hiking trails	tourism routes	parks	recreational areas	
Residential- areas	green belts	sacred/holy grounds	OTHER			
Brief description	None					

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NIA				
6.2 Visual aesthetic	s: easily seen	hidden		partially
Brief description .Exis	ting overhead powerl	ine is next to gravel road	i.	
Potential impact .NA				
6.3 Natural heritage	cultural	archaeological objects	monuments	palaeontological objects
	graves	meteorites	ruins	OTHER
	of 1999 be identified	ed, the requirements	of Act 25 of 1999	ned in the National Heritage shall be followed by notifying notified.
Potential impact	e seen during survey			
Comments/mitigating	measures			
7 Economic env	ironment			
	crops game farming	orchards forestry areas	grazing mining	crop spraying OTHER
•	<i>yy</i>	,	J	
Brief description	e			

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Potential impact					
7.1.1 Commercial:	factories		shops	OTHER	
Brief description Non Potential impact NA					
7.1.2 Infrastructure:		railways sewage	communications	power lines	air fields
Brief description: Grave	l road paralle wi	th existing overh	nead line		
NA					
Potential impact					
Comments/mitigating	measures:				

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		Annex (continu		
What i	mpact will this pro	oject have on elements 4 to 7?		
No im	pact (0) 🗸	Medium impact (2)	High impact (4)	
2.	Natural			
No im	pact (0)	Medium impact (2)	High impact (4)	
3.	Social			
No im	pact (0)	Medium impact (2)	High impact (4)	
This s			act of the project. The impacts as assessed to be considered to determine the overall imp	
	No impa	ct Medium impact	High impact	
If the Enviro	overall impact nmental Senior S	is between 2 and 4, contact Superintendent.	t the Environmental Management Officer	or the
Altern	atives			
Have	alternative routes	been discussed with the relevant	it land owner/s or users?	
Yes No		/		
Detail	ed study			
Is an e	environmental ass	sessment required in terms of Re	gulation R543?	
Yes No		,		
Should	d a permit applica	ation be made to DWA?		
Yes No		/		
Should	d the SAHRA be	notified?		
Yes No	v	/		

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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 1.6 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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2 Special condition	S									
(Specific issues identifie protected trees. etc.).	d during th	ne scoping	g as	needing	attention	i.e.	erosion	berms,	bird	flappers,

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 a a tha a time	ı	and a suith material of plants it as a Color of the Color of
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.
Tieritage resources		
	-	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 OUALITY	-	scrieduling 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.
Impedance 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.
Con compaction/topsoil-subsoil mixing.	l -	- · · · · · · · · · · · · · · · · · · ·
	-	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.
		slope stabilisation. mechanical erosion control.
	-	mechanical erosion control.
	- - -	mechanical erosion control. vegetation erosion control.
	- -	mechanical erosion control.

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