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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

I have seen the completed document and accept the

recommendations made

Assessor/s

Form completed by

ranssesv I

NESSEL COM

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

g land owner, specialist): ...

-

DATE COMPLETED: 3

2015

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.

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	Continue II
1 Project description	continued)
olege geachibitot	
Project name/Survey	
Request Harris Theory	
	Area Series Leitmin Marill
Project number Paccasses Fit	File number
Rural scheme/ PIIO	
Feeder	Valtage
Supply from 16/10 83/20/22	Voltage 112/E
(scheme name, pole numbers for tee-off)	
Supply to 15-c well	huai:
(Farm name, etc.)	TO THE POLE
-	
2 Properties traversed	
Farm name Beginters	
Pogiatratia	209 +1
Registration number and Division	Sub-division 1 2 8 13112 - Revision 1 2 8 13112 - Revision 1
Compliation number 2632/5/5	length (m) 01/8/25/
Farm name	W 6, 689 K-
Registration number and Division	6, 97 12
Compilation number Line	Joneth (O)
LIIIe	rengtn/Site area (m²)
3 Brief description of the surrounding a	
accompliant of the surrounding a	rea
H-017 1.6-1	The state of the s

Could the proposed project have an impact on or i	be constrained by any of the following environmental
Encircle the enemy in	only of the following environmental
oossible negative impact. New viving a description	n of the present state as well as an indication of the
Environmental Management Programmer	n of the present state as well as an indication of the asures for these impacts are to be included in the
management Programme.	, and to be moluded in the

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4 Physical enviro	nment	(continue	d)		
4.1 Water: streams		wetlands	springs flood	plains OTHER	*378 (****
Present condition:	RIS TILLS.	***************************************	***************************************		140.000
Potential impact (e.g. th	reat of pollution):				
Linus Co	T-40000-000-000-000-000-000-000-000-000-	111017		Justan	*******
4.2 Soil: san	dy	cky	clayey	OTHER	******
Present condition:	- WO		× 10		
Potential impact (e.g. of e	Prosion) 5	ac:			COLOR COLOR
		nills valleys	ravines dong	as OTHER	1959.44 1944
Present condition:	2.2557	**************************************	***************************************	***************************************	
Potential impact (e.g. of e	rosion) 5 - 30 - 2	0661			
Comments/mitigating mea	sures:				
Poels	Positione	195	70	0 65	P000
INSPORT	Passens	Suc	Con	01710-15	See
Particular Control Con		***************************************	***************************************		110

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			(continu	ed)			
5 Natural e	nvironment			,			
5.1 Flora:	indigenous	1-1-1	otected	exotic		OTHER	
Brief description	n and conservat	ion status (e.g	rare, etc.	mention trees	/bush/gras:	s) Juns	
Potential impac	t (e.g. permit ap	plications		***************************************	************		
5.2 Fauna:	mamı	mals	birds)	ОТН	ER	
Brief description (e.g. rare, protec	and conservation	on giraffe, elei	ohants, eagl	es, vultures, e	etc., mentio	n migratory paths)	
Potential impact	11	lectrocution, c					
Comments/mitig	ating					***************************************	Sures:
6 Social envi	ironment			****************			
6.1 Restricted areas:	nature/game reserves green belts	hiking trails		n routes	parks	recreational areas	
areas	g.com bells	sacred/holy grounds	OTHE SIDENI	R		,	
Brief description	JE2111	R_L	SIDEN	me-	Le,	MNC	

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Potential impact e	.g. threat of encroad	Anne (contin	ued)	125.
	Successive easily seen	50/0/	//.oot-/ den	70/a
Brief description	Fingles Hinge	52.1.1 78/2	30/6	~
Potential impact	No	/h `		
6.3 Natural herita	ge: cultural significance	archaeological objects	monuments	palaeontological objects
	graves	meteorites	ruins	OTHER
Resource Act, No 2 the SAHRA. If line	or access road len	ngth exceeds 300	Om SAHRA shall be i	unes Sunn
Comments/mitigating	g measures	27 Nova 1 100 - 22 - 3	2-49-14-48-1-48-1-48-1-48-1-1-1-1-1-1-1-1-1-	· Participant reserves reserves and a

7 Economic en	vironment		***************************************	
7.1 Land use:	crops game farming	orchards forestry areas	grazing	crop spraying
Brief description	poeme	/las	52,2813	57EuBL

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Annex B (continued)

Potential impact		***************************************	***************************************	***************************************	**************
7.1.1 Commercial:	factories		shops	OTHER	***************************************
Potential impact		***************		******	
7.1.2 Infrastructure: Brief description	roads pipelines	railways sewage	communications OTHER	power lines	air fields
	*******************	***********************			***************************************
Potential impact	~h~	10/22/19/20 000000			***************************************
		Commission of the Commission o		******************	*************
Comments/mitigating n	neasures:				
				000000000000000000000000000000000000000	***********

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104		(4	Annex B continued)	
vvna 1.	t impact will the Physical	is project have on elements 4 t	0 7?	
No in	npact (0)	Medium impact (2)	High impact (4)	
2.: No im 3.:	Natural pact (0) Social	Medium impact (2)	High impact (4)	
No im		Medium impact (2)	High impact (4)	
This s		ses the overall environmental (physical, natural and social) 2 Medium impact	impact of the project. The implement to be considered to determ	pacts as assessed in the nine the overall impact
If the Enviro	overall impa nmental Senio	ct is between 2 and 4, co or Superintendent.	ntact the Environmental Mana	agement Officer or the
Altern				
Have a	alternative rout	seen discussed with the rel	evant land owner/s or users?	
Detaile	ed study			
	nvironmental a	ssessment required in terms o	f Regulation R543?	
Yes No		<.		
Should	a permit applic	cation be made to DWA?		
Yes No		•		
Should	the SAHRA be	notified?		
Yes No				

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Annex C - Environmental Management Plan

(Normative)

1 General conditions

- The Eskom project manager or co-ordinator shall be responsible for ensuring that the land owners 1.1 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 1.3 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 1.4 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 1.7
- If activities that can cause a fire are carried out, fire extinguishers shall be available on site and in
- No property may be accessed after normal working hours except with the permission of the 1.8 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 1.11
- Vehicles shall be driven at a moderate speed on private roads and stay within the statutory speed 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.
- 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	Special	conditions
---	---------	------------

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

3	

TYPICAL MITIGATION MEASURES

MITIGATION AFFACULT
MITIGATION MEASURES
 limit width of access and size of tower site. avoidance of crop areas. monetary compensation for crop loss. time construction to avoid growing season. scheduling activities to times of the year when soils are least susceptible to see the site.
stop activities when ground conditions are pooruse of equipment with low bearing capacity. chisel ploughing.
- locate access roads along existing traffic routs.
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.
maintain contact with landowner/tenant regarding preferences.
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. wetting down dry soils. chemical control of dust. cleaning roads to remove mud. temporary planting of grasses.

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Aesthetics	(continued)
Destricts	 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
Inconvenience	select route and method of installation to suit landowners' conditions
Heritage resources	 select timing of activity 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.
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.
WATER QUALITY	scheduling to avoid peak use periods.
Sedimentation of streams due to erosion from the right-of way. Stream bank erosion.	 minimise use of slopes adjacent to streams during soils testing, construction and maintenance. maintain a cover crop. retain buffers. mechanical erosion control. retain shrubby stream bank vegetation and selectively
mpedance of natural flow	selective spraying of herbicides. Mechanical erosion control.
Streams/others surface waters Ponding or channelization of surface vaters due to rutting	 use and maintenance of appropriate stream crossing device. timing activities to stable ground conditions. use of gravel roads.
Contamination of surface or ground vaters through spills or leaks of toxic ubstances.	 spill control material and procedures readily available. site selection where possible.
oil compaction/topsoil-subsoil mixing.	 avoidance of rutting by vehicles where possible. construction timing. use of gravel roads. use of vehicles with low bearing pressures.
/ind/water erosion	 stop activities when ground conditions are poor. 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.