PERMIT REQUIRED

Document Classification: Controlled Disclosure

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier

240-72597722

Revision

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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

LEPELLE NKUMPZ LOCAL MUNICIPALITY

I have seen the completed document and accept the

recommendations made

THINDISA DANIEL

Assessor/s

Farm completed by

A-NEETHUN Signature

in consultation with IHIMDISA D.MSignature

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

DATE COMPLETED

18 JAN 2019

Instructions

- 1. Fill the report in as neatly and completely as possible
- Where the question / statement is not applicable mark N/A.
- 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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GOLDRA-HOXONY TRADITIONA GUNC

Assessor/s

Form completed by

in consultation with "

Signature

Signature - Lepton

CAPACITY (e.g. land owner, specialist)

DATE COMPLETED A

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KGUSIGADI H.P. LEDWABA

17 -01- 2019

PRIVATE BAG X60
LEBOWAKGOMO. 0727

LIMPOPO PROVINCE

aspects?

Environmental Management Programme.

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Annex B (continued) 1 Project description Project name/Survey Request Project number . File number Rural scheme/ ROSVICIO + KORNEMAT Feeder Supply from (scheme name, pole numbers for tee-off) Supply to (Farm name, etc.) 2 Properties traversed Farm name Registration number and Division 450 KS Sub-division ... Compilation number 2429 AoLine length (m)..... Farm name VOORSPOED Registration number and Division Sub-division ... Compilation number Line length/Site area (m2) 3 Brief description of the surrounding area

ESKOM COPYRIGHT PROTECTED

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

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 Physical environment 4.1 Water: rivers dams wetlands springs floodplains OTHER Potential impact (e.g. threat of pollution): OTHER 4.2 Soil: dayey sandy rocky Present condition: Potential impact (e.g. of erosion) ridges hills valleys ravines dongas OTHER 4.3 Topography mountains Present condition Area is Hot. Potential impact (e.g. of erosion) N - A Comments/mitigating measures

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		1,7123	ontinued)		
5 Natural env	rironment				
5.1 Flora:	indigenous	protecte	exoti	c o	THER
Brief description	and conservation s		e, etc., mention tre		***************************************
Potential impact ((e.g. permit applica	tions	************************	***************	******************************
5.2 Fauna:	mammals		birds		R
3rief description a	and conservation s	tatus:			
e.g. rare, protect	ed, etc., mention g	iraffe, elephar	its, eagles, vulture	s, etc., mention	migratory paths)
	e.g. threat of electr				*****************
*****************	************************************		**************************************		
		and pred the water Complete Co		***********	************
Comments/mitiga	ting			i- with	measure
	/	************			
** *** *** *** *** *** ***	····		**************	**********	
		**************			*********************
Social envi	ronment			h .	
i.1 Restricted	nature/game h	iking trails	tourism routes	parks	recreational areas
Residential- areas		acred/holy rounds	OTHER		
Brief description .	Village area	with	Stand and	houses	

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		Annex B (continued)		
otential impact e.g. thr	eat of encroach	ment etc	1	
.2 Visual aesthetics:	easily seen	hidden	114 114 114 114 114 114 114 114 114 114	partially
rief description	V lines progred	paged in	steet a	
Potential impact	1.4		*****	
6.3 Natural heritage:	cultural significance	archaeological objects	monuments	palaeontological objects
Resource Act. No 25 of	graves itural heritage r	ed, the requirements	i of Act 25 of 199	OTHER
Resource Act, No 25 of the SAHRA. If line or a	graves atural heritage r 1999 be identifi access road ler	resource as listed a	bove, or as del	fined in the National Heri 19 shall be followed by notif
Resource Act, No 25 of the SAHRA. If line or a Potential impact	graves atural heritage r 1999 be identifi access road ler	resource as listed a	bove, or as del	fined in the National Heri 19 shall be followed by notif
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Resource Act, No 25 of the SAHRA. If line or a Potential impact	graves atural heritage r 1999 be identifi access road ler reasures policiality	resource as listed a	bove or as del	fined in the National Heri 19 shall be followed by notif
Resource Act, No 25 of the SAHRA. If line or a Potential impact	graves atural heritage r 1999 be identificancess road ler measures N.A. onment	reguired	bove or as del s of Act 25 of 199 SAHRA shall be	fined in the National Heri 19 shall be followed by notified.

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			nnex B entinued)		
n	lone .			The state	
Potential impact/				*******	************
7.1.1 Commercial:	factories		shops	OTHER .	**********
				p the	
Brief description	red:	********	***********************		**************
Potential impact		***************			*************
*** *** *** **** *** *** *** *** ***					******
*************************	***************************************				*******
7.1.2 Infrastructure:	roads	railways	communications	power lines	air fields
	pipelines	sewage	OTHER		
Brief description:	*****	************	********************		

######################################	*******		********************	The state of the s	***************************************
MALE AND INCOMESSAGE AND THE STORY AT			*******************	Children Hamilton bed day	
***************************************			***********************		
Comments/mitigating	measures:			70 5 1	

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	6	ontinued)	
What impact will this	s project have on elements 4 to		restricte state) for
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)	
above three sphere	s (physical, natural and social) 2	need to be considered to	he impacts as assessed in the determine the overall impact
No in	npact Medium Impac	t High impact	
Environmental Seni	or Superintendent.		Management Officer of the
Have alternative roo	utes been discussed with the re	elevant land owner/s or us	ers?
Yes No			
Detailed study			
Is an environmenta	assessment required in terms	of Regulation R5437	
Yes No			
Should a permit ap	plication be made to DWA?		
Yes No			
Should the SAHRA	be notified?		
Yes			

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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 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'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 Eskon 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

- 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 yeld 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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*1	Annex C
	(continued)
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2 Special conditions	
(Specific issues identified during the scoping as needing attention i.e protected trees, etc.).	erosion berms, bird flappers,

TYPICAL MITIGATION MEASURES

ENVIRONMENTAL CONCERNS	MITIGATION NEASURES
AGRICULTURE	Hadding Strange (1985)
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.
Topsail – subsail mixing/sail 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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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 erosion from the right-of way.	minimise use of slopes adjacent to streams during soils testing, construction and maintenance maintenance 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 streams/others surface waters	use and maintenance of appropriate stream crossing device.
Ponding or channelization of surface waters due to rutting.	timing activities to stable ground conditions. use of gravel roads.
Contamination of surface or ground waters through spills or leaks of toxic substances.	spill control material and procedures readily available. site selection where possible.
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.