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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			
Head of Engineering Survey			
(one signature please)	8	f	0.11
Accepted by Land Owner/s/Users	Camulcumba Nthe	answeni	Albert
I have seen the completed document recommendations made		nt	
Form completed by Moth'bo in consultation with Pamukum	Z.M. Assessor/s /	>	
in consultation with : [Amukum]	A. N. Asignature: Tenkula	ns	
CAPACITY (e.g. land owner, specialis	1) Headman		
DATE COMPLETED: 16-02	-2023		

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.

VHAMUSANDA:RAMUKUMBA N.A	
NWELI VILLAGE	
2023 -02- 16	
P.O. BOX 1304 FHATUWANI 0968	
LIMPOPO PROVINCE	
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1 Project de	scription		Δ.			
Rural scheme/ Feeder	CML LINE DE	illoge	n Male Area File number Voltage 22	phantele LKV		
Supply to (Farm name, etc.)						
2 Properties	traversed	1611	village			
compliation num	traversed Www. ber and Division					
arm name	ber and Division		Sub-di	vision		
Priof doscr	intion of the sur	rounding are	ea			
Avea	is op	ilea Q	w, th	line	4 up	
2+510)				

aspects?

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 Environmental Management Programme.

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		(continue	(D)		
4 Physical	environment				
4.1 Water:	streams rivers	dams wetlands		ains OTHER	
Present condition	on: 7iat	with som	All Street	201	
Potential impact	(e.g. threat of pollution	on):			
	Mioro	um im	19 CA		
4.2 Soil:	sandy	rocky	clayey	OTHER	
Present condition:	Minim	um imp	acd San	oly and ve	d
Potential impact (e	g. of erosion) ? ?. mountains ridge	1 minum	impact		
Present condition:	flat				
				g 0 \	
Comments/mitigating	measures:				

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		An (co	nex B				
	nvironment indigenous	protected		exotic	OTHER		
Brief description	n and conservatio	n status (e.g. rare.	etc., men	tion trees/bu	ush/grass)		
Potential impac	ct (e.g. permit appl	ications Le			OTHER		
5.2 Fauna:	mamm		birds 🗸		OTHER		
		n status: n giraffe, elephan	$\boldsymbol{\mu}$				
Potential impaci	t (e.g. threat of el	ectrocution, collis	ion, etc)				
		(measures	:
Comments/mitig	ating						
Social env	ironment						
1 Restricted	nature/game reserves	hiking trails	touris	m routes	parks	recreational areas	
esidential-	green belts	sacred/holy grounds	OTHE	ER		:	
				ÊΑ	VIIIAAA	business	ave

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		(conti	nued)	
Potential impact	mini mym	mpeet		
7.1.1 Commercial:	factories	s	hops	OTHER
Brief description	hops c	impact	the Village	2
7.1.2 Infrastructure:	roads 🗸	railways sewage	communications	power lines air fields
Brief description: C	xisting	soads	and po	werlines
Potential impact?	า เกาะคนทา	imp9ct		
Comments/mitigating	measures:			

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	pact or a throat of	Annex (continued encroachment, etc.	0	npict
	nesthetics: easil			partially
Brief descripti	on lines	QV @ 07	the stree	t boundaries
Potential impac	otMini.mu	m mpact		
6.3 Natural he	eritage: cultura signific	_	monuments	palaeontological objects
	graves	•	ruins	OTHER
Comments/mitigat	ting measures			
Comments/mitigat				
' Economic er	nvironment	orchards forestry areas	grazing o mining	crop spraying OTHER
7 Economic er 1 Land use:	crops game farming	forestry areas	mining	, ,

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Potential impact	mini my	n imjere	t		
7.1.1 Commercial:	factories	;	shops	OTHER	
Brief descriptionS Potential impact?	hops	around impact	the L	village	
7.1.2 Infrastructure:	roads ~	railways sewage	communica	tions power lines	air fields
Brief description:	xisting	sociels	and	Powerlines	
Potential impact	<i>โก</i> ;ฺฅน <i>เ</i> กา	imp9ct			
Comments/mitigating m	easures:				
······			•••••••		
			• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	

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Annex C - Environmental Management Plan

- The Liskom project manager or co-ordinator shall be responsible for ensuring that the land owners The Eskom project manager or co-ordinator small 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 General conditions
- 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. 1.2
- 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 1.3
- 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 1.4 and vehicles entering into adjacent camps or properties.
- 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 1.5 1.6
- If activities that can cause a fire are carried out, fire extinguishers shall be available on site and in 1.7
- No property may be accessed after normal working hours except with the permission of the landowner. Privacy shall be respected at all times. 1.8
- Eskom, Eskom's contractors and their employees shall at all times be courteous towards landowners, tenants and the local community. 1.9
- 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 1.10 Eskom project manager or co-ordiator.
- Vehicles shall be driven at a moderate speed on private roads and stay within the statutory speed 1.11
- 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 1.12 veld. Special care shall be taken to prevent excess damage during wet weather.

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Anne	x B	
(contin	ued)	
What impact will this project have on elements 4 to 7?		
1. Physical		
	High impact (4)	
No impact (0) Medium impact (2)	riigii iii pace (· /	
2. Natural		
No impact (0) - Medium impact (2)	High impact (4)	
No Impact (o)		
3. Social		
. (2)	High impact (4)	
No impact (0) Medium impact (2)	riigir iiripaat (1)	
Overall impact: This section addresses the overall environmental impacts section addresses the overall environmental impacts.	act of the project. The imp	acts as assessed in the
This section addresses the overall environmental impa above three spheres (physical, natural and social) need	to be considered to determ	ine the overall impact
above three spheres (physical, hatdra and easily)	4	
0	High impact	
	підп ітрасі	
No impact Medium impact If the overall impact is between 2 and 4, contact Environmental Senior Superintendent. Alternatives	- "	agement Officer or the
If the overall impact is between 2 and 4, contact Environmental Senior Superintendent. Alternatives	the Environmental Man	agement Officer or the
If the overall impact is between 2 and 4, contact Environmental Senior Superintendent.	the Environmental Man	agement Officer or the
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Yes No

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2	Special	conditions
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2 Special conditions	eding attention i.e. erosion berms, bird happe
(Specific issues identified during the scoping as ne	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
protected trees etc.).	

TYPICAL MITIGATION MEASURES

	MITIGATION MEASURES
ENVIRONMENTAL CONCERNS	
AGRICULTURE Loss of standing crop due to access road and tower work site.	- 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.
oss 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.
OCIAL IMPACTS	
ud and Dust	 wetting down dry soils. chemical control of dust. cleaning roads to remove mud. temporary planting of grasses.

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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
- 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)
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 WATER QUALITY	 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.
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.
mpedance of natural flow treams/others surface waters.	 use and maintenance of appropriate stream crossing device.
londing or channelization of surface raters due to rutting.	timing activities to stable ground conditions.use of gravel roads.
ontamination of surface or ground aters through spills or leaks of toxic bstances.	 spill control material and procedures readily available site selection where possible.
il 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.
	 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.

avoid trenching parallel to the fall of a slope	- avoid		
vegetation of transpos	- Veger		
siope stabilisation.			
timing activities to the most stable ground conditions.	- timing		
avoidance of areas with high erosion potential.	- avoida		wind/water erosion.
stop activities when ground conditions are poor.			
use of vehicles with low bearing pressures.	- use of		
use of gravel roads.	- use of		
construction timing.	- constr		
avoidance of rutting by vehicles where possible.		nixing.	Soil compaction/topsoil-subsoil mixing.
site selection where possible.	- site se	of toxic	waters through spills or leaks
control material and procedures readily available		5	
use of gravel roads.	- use of	surrace	Ponding or channelization of waters due to rutting.
a potinition to otoble arguing conditions		6	ers surface waters.
use and maintenance of appropriate stream crossing	- use and	flow	Impedance of natural
Mechanical erosion control.	 Mechar 		
selective spraying of herbicides.	- selectiv		
cut or prune trees during line clearing/maintenance.	cut or p		
mechanical erosion control.	 mechar 		Stream bank erosion.
retain buffers.	- retain bi		
maintain a cover crop.	- maintair		
testing, construction and maintenance.	testing,		Sedimentation of siteality due to erosion from the right-of way.
minimise use of slopes adjacent to streams during soils			WATER QUALITY
scheduling to avoid bear and bear			
safety precautions to protect the periods.			
minimise noise and dust.		-	
screening and restoration.	screenin		
ive.	disruptive.		
design measures to make facility less obtrusive or	design m	1	Target and recreation resources
relocation in conjunction with SAHRA.	relocation	-	
salvage in conjunction with SAHRA.	salvage ii	1	
	protection	1	
alternate menious of enclosures, barrier fencing,	alternate	1	
ng.	screening.	-	
design measures to make facility less obtrusive.	design me	1	Heritage resources
avoidance/isolation.	avoidance		
select timing of activity.	select tim	1	
Select route and money and landowners' conditions.	landowner	1	Inconvenience
completion.	completion.		
Installation of landscaping in easiers	installation	1	
hoarding construction sites.	hoarding c	1	
addition of topsoil to gravel access roads.	addition of	1	
avoid linear access down the right-of-way.	avoid linea	1 3	Aesthetics
screen with natural of planted vegetation restoration.	ecreen with		
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