## 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 S. G. MOTCA-CEICG OST	0///0
Environmental Specialist Head of Engineering Survey	10/07/19
(one signature please) Accepted by Land Owner/s/Users N.E. ZIII.a.	l' aru
I have seen the completed document and accept the recommendations made	HEADMAN / INDUNA Stand no: 240
Form completed by SEWARD THIS Signature:	Kildare 'B' Trust P.O. Box 211, Ximhungwe, 128
in consultation with: YE CITHAI Signature: VI FI	Cell: 082 747 2766
CAPACITY (e.g. land owner, specialist):   HEAS MAN  DATE COMPLETED: № 23 - 11 - 29/8	-Date: <u>23 - 47 - 2018</u>

### Instructions

- 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.
- 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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## Annex B (continued)

### 1 Project description

Project name/Su Request	IVEY KILDADLE PESSYS Area BISHBUCK XI DSC
Project number	ICLUSIA POSIA File number
Rural scheme/	
Feeder	CKL 2(1/4/)
Supply from	CRULYAYI
(scheme name, ) Supply to	pole numbers for tee-off)  ICLOALE 277 KO 2027.W B
(Farm name, etc	
2 Properties	traversed
Farm name	KUDAZ E
Registration num	nber and Division 277 ICU Sub-division D nber 2431 CD Line length (m) MU 2856, 8 LV 22675, 9
Compilation num	nber 21431 CD Line length (m) MU = 856, 8, LV 11675, 4
Falifi Name	***************************************
Registration nun	nber and Division
Compilation nun	nberLine length/Site area (m²)
"我们一种自己的东西原始"	ription of the surrounding area
THE.	ALEA N A RESIDENTIAN AREA A VALLEY AND WITH COTS VESCATION & SANDY COL
,N	A MILEY MA WILL COTS
OF	VESEATION S STOUT SOL
***************************************	
Could the proper	osed project have an impact on or be constrained by any of the following environmen
Encircle the appossible negative	propriate aspect, giving a description of the present state as well as an indication of t ve impact. Note that mitigating measures for these impacts are to be included in t I Management Programme.

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# Annex B (continued)

4 4 Water aleans	, da
4.1 Water: streams rivers dams wetlands springs	
Present condition: M WATER FEATURES A	rfcer60
Potential impact (e.g. threat of pollution):	
and a	**************
	***************************************
4.2 Soil: sandy rocky clayey	OTHER
Present condition: SARYDY SOL IN SOD	له ۱۳۵۵ (دوری)
Potential impact (e.g. of erosion)	***************************************
4.3 Topography mountains ridges hills valleys ravines	dongas OTHER
Present condition: TME AUA W HICH LINS AD EMET ON THE Potential impact (e.g. of erosion) ANT	BUT THAT
Comments/mitigating measures:	
- PJW	1210141407444AAAAAAAAAAAAAAAAAAAAAAAAAAAAA
	***************************************
***************************************	***************************************

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## Annex B (continued)

5 Natural en 5.1 Flora:	indigenous	protected	exotic	OTHER A.	1/1
المنفقة أفادت في فياون			a nga bangan	ing the second	
Molule	and conservation st	atus (e.g. rare, etc., r	nention trees/bush	/grass)	
otential impact	(e.g. permit applicat	ions TUE	P.Gm15	(EDU)	reo -
.2 Fauna:					<u></u>
z rauna;	mammals	) birds		OTHER	<i>[.</i>
	and conservation sta				
.g. rare, protec	led, etc., mention gir	raffe, elephants, eagl	es, vultures, etc., i	nention migratory	paths)
Table 1 Table 1 Table 1	and the second second second				
otential impact	(e.g. threat of electro	ocution, collision, etc	·····	*****************	********
	************	************************	ronz		
****************	*************************	***************************************	***********************	****************	**********
omments/mitiga	ating				measur
aaaaaa ah shistiis Ta					The second sections
****************		**************************************			
***************************************		************************			
Social envi	1 1		***************************************		
00010101771					
1 Restricted	nature/game hill	king trails touris	m routes p	arks recrea	
reas:	16261 A62				
	green belts sa	ored/holy OTHI	R MA	areas	

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		(continued	)	
otential impaci	e.g. threat of encroacl	hment, etc	DIVE"	*****************************
.2 Visual aest	hetics: easily seen	hidder	7	partially MA
	-CUL	α.	0M:	C
rief description	THE UN	K	6×1)/17	STED
F-74-7-44-4-44-4-4-4-4-4-4-4-4-4-4-4-4-4		***************************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	*********************************
otential Impact	Lenle	*******************************		
144***********************************			**************	*******************************
	itage: cultural	archaeological	monuments	palaeontological
.3 Natural hei	significance		MONUMENTS	
lote: Should	significance graves any natural heritage	objects meteorites resource as listed	ruins above or as de	OTHER
lote: Should lesource Act, N ne SAHRA. If I	significance graves any natural heritage lo 25 of 1999 be identif ine or access road lei	objects meteorites resource as listed ited, the requirement ngth exceeds 300m	ruins above, or as de is of Act 25 of 19 I SAHRA shall b	objects OTHER
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Resource Act, No he SAHRA. If I Potential impact	significance graves any natural heritage lo 25 of 1999 be identif ine or access road lei	objects meteorites resource as listed ited, the requirement ngth exceeds 300m	ruins above, or as de is of Act 25 of 19 I SAHRA shall b	objects OTHER
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Annex B (continued)

i.1 Commercial:	factories	si	hops	OTHER	VA
ef description A	o Comm	MULAL S	TES ATT	-ce16D	
tential impact				*******************	************
***************************************					
1.2 Infrastructure	roads	railways sewage	communications OTHER AND	power lines	air fields
ief description:	BUDDA	or ois	SING HT PIPE	4005	60
otential impact	NOVE	**************************************	**************************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************
******************************	ng measures:			,,1,p>p,tt,,,	

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٨	n	nex	ľ	В

		(continued)		
What impact will this  1. Physical	s project have on elements	4 to 7?		
No impaci(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	4)	
Overall impact: This section addres above three spheres	ses the overall environments (physical, natural and soci	ntal impact of the projectal) need to be considered.	ct. The impared to determin	cts as assessed in the e the overall impact
No in	npact Medium imp	pact High impa	ıct	
If the overall impa Environmental Senio	act is between 2 and 4, or Superintendent.	contact the Environn	nental Manag	ement Officer or the
Alternatives				
Have alternative rou	ites been discussed with the	e relevant land owner/s	or users?	
Yes				
No			1 - 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	

**Detailed study** 

Is an environmental assessment required in terms of Regulation R543?

No

Should a permit application 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

- 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, Eskom's contractors and their employees shall not cause damage to properly, 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

- 1.13 If any vehicle should get stuck, the damage shall be repaired immediately so that no deep ruts remain.
- 4.14 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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## Annex C (continued)

2 Special condition	ns
---------------------	----

(Specific issues identified of protected trees, etc.).	during th	e scoping	as	needing	attention	i.e.	erosion	berms,	bird	flappers
C. arabida Meco. Ofc.).										

TWEE	PETITUT	KEWIRE	<i>y</i>	*************************	
*****					****************
	***************		*************		*************
· ·					

### 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	<ul> <li>scheduling activities to times of the year when soils are least susceptible to compaction.</li> <li>stop activities when ground conditions are poor.</li> <li>use of equipment with low bearing capacity.</li> <li>chisel ploughing.</li> </ul>
Construction of new lines	- locate access roads along existing traffic routs.
Topsoil – subsoil mixing/soil rutting	<ul> <li>scheduling activities.</li> <li>stop activity when ground conditions are poor.</li> <li>use of equipment with low bearing capacity.</li> <li>use of gravel roads.</li> <li>addition of manures to offset fertility loss.</li> <li>compensation for reduced soil pEAuctivity.</li> <li>removal of spoil and/or bentonite from foundation operations.</li> <li>Segregation of topsoil and subsoil.</li> </ul>
Disturbance to farm operations	<ul> <li>maintain contact with landowner/tenant regarding preferences.</li> </ul>
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	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
Mud 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)

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.
the second of the second	- 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.
<u> Paramanan da</u>	- 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.
<u> </u>	- maintain a cover crop.
. 14.	- 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.
National Control	- 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	
waters through spills or leaks of toxic	spill control material and procedures readily available.     site selection where possible.
substances.	- and adjoining midia hosainia.
Soll compaction/topsoil-subsoil mixing.	- avoidance of rutting by vehicles where possible.
oor combactionscoharm-annacis mixidig.	- avoidance of routing by vernicles where possible construction timing.
	- use of gravel roads.
	- use of vehicles with low bearing pressures.
AND TO AND THE ADMINISTRATION AND THE ADMINISTRATION AND ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION AND ADMINISTRATION ADMINISTRATION ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION	stop activities when ground conditions are poor.
Wind/water erosion.	
vania valei erusivii.	avoidance of areas with high erosion potential.     timing activities to the most stable ground conditions.
로 무슨 학생들이 있다. 사용 회사 기관을 하고 있는	slope stabilisation.
	- mechanical erosion control.
	I had to the street of the str
	recompaction of trenches.     avoid trenching parallel to the fall of a slope.

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