ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

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## Annex B - Distribution Environmental Screening Document (DESD) (Informative)

#### Reticulation Powerlines and Ancillary Services

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  TRACTIONAL COUNCIL  I/MBAULATE  In consultation with: Make Signature:  CAPACITY (e.g. land owner, specialist):  Signature: LICAL  BOX 100 MULENZHE COMMENTATIONAL COUNCIL  SIGNATURE SIGNATURE: LICAL  BOX 100 MULENZHE COMMENTATIONAL COUNCIL  SIGNATURE: LICAL  BOX 100 MULENZHE COMMENTATIONAL COUNCIL  SIGNATURE SIGNATURE: LICAL  CAPACITY (e.g. land owner, specialist): LICAL  CAPACITY (		Ratified and accepted by			
Head of Engineering Survey  (one signature please)  Accepted by Land Owner/s/Users  I have seen the completed document and accept the recommendations made  Form completed by HEASHMON Signature:  In consultation with: Make Signature:  Signature: Accepted Signature:  28 -12 - 2028					
(one signature please)  Accepted by Land Owner/s/Users I have seen the completed document and accept the recommendations made  Form completed by HE15HMM LASSESSOR/S  In consultation with: McK-LASC Signature: 100 Min Fix HE 100 Min		Environmental Specialist		•	
Accepted by Land Owner/s/Users I have seen the completed document and accept the recommendations made  Form completed by HE/SHIMO Le Assessor/s  In consultation with: McK-land Signature:  Signature: Light Signature:  Signature: Light Signature:  ROX 100 Min FNORE SMI		Head of Engineering Survey		••	
I have seen the completed document and accept the recommendations made  TRADITIONAL COURTCU.  TRADITIONAL COUR		(one signature please)			
Form completed by HE15+100 Land Signature: 28-12-2028  \[ \text{in consultation with: Make Land Signature: 1.01c.} \]		Accepted by Land Owner/s/Users	***************************************	WHEN NETCOM	
Form completed by NE15HMOW Le Assessorts  28-12-2028  In consultation with: McKlord Signature: Mole Signature:		I have seen the completed document a	and accept the	WINDS MOLENZHE	
Form completed by NEISHMON Signature: 28 -12 - 2028  \[ in consultation with: McK-local Signature: Mole   100 Min Fix HE		recommendations made		THADITIONAL COURCIL	
in consultation with: Mck local Signature: Mole to		0- 11-0-0-1	Assesspris	1 42	
in consultation with: Mck local Signature: Mole to		Form completed by Ned StriNo	Signature:	28 -12 - 2020	
CAPACITY (e.g. land owner, specialist): Seller All BOX 100 MULENZHE WAR	$\lambda$	in consultation with: McKaloro	O Signature: LAOLE	<b>19</b>	
CAPACITY (e.g. land owner, specialist):			" (SelETARY		
	X	CAPACITY (e.g. land owner, specials		VITEMBE DISTRICT	
DATE COMPLETED:	^	DATE COMPLETED:	1100	The second secon	ė

#### Instructions

- Fill the report in as neatly and completely as possible.
- 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 Pro	ject description
Reque Projec Rural s Feede Supply (scher Supply	cheme/
2 D.	operties traversed
Farm Regis Comp	name  tration number and Division Sub-division  lilation number Sub-division  name Sub-division  tration number and Division  Line length/Site area (m²)
3 B	rief description of the surrounding area
5	ad Sady Mesons promised
Cou aspe Enc	d the proposed project have an impact on or be constrained by any of the following environmenta ects? rcle the appropriate aspect, giving a description of the present state as well as an indication of the sible negative impact. Note that mitigating measures for these impacts are to be included in the ironmental Management Programme.

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#### Annex B (continued)

4 Physical environment			A
4.1 Water: streams rivers	dams wetlands		os other
Present condition:	1)! //-		
Potential impact (e.g. threat of poll	<i>[.</i>	**************************************	
4.2 Soil: sandy	rocky	clayey	OTHER
Potential impact (e.g. of erosion) 4.3 Topography mountains	Sculling Scu	1 Son 1	other TuA
Present condition:	Hal	are	<u> </u>
Comments/mitigating measures:		Pul	

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Annex	В
(continue	d)

5 Natural envir	onment					
5.1 Flora:	indigenous	protected	,	exotic		ER
Brief description an		ations			toru	
Potential impact (	ed, etc., mention	giraffe, elephants	 n, etc)			
	<i>t</i>	.Y.Q			11111111111111111111	
Comments/mitiga	tlng					measures:
6 Social envi	Peru		eg h	rest		
6.1 Restricted areas:  Residential-areas  Brief description	nature/game reserves green belts	hiking trails sacred/holy grounds	tourism r	outes	parks	recreational areas

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Potential impact e.g, three	at of encroachm	Annex B (continued) ent, etc		
6.2 Visual aesthetics:	easily seen	hidden		partially
Brief description	eet	ere	حلم	11.
Potential impact		FO	I was Place	
6.3 Natural heritage:	cultural significance graves	archaeological objects meteorites	monumehts ruins	palaeontological objects OTHER
Note: Should any na Resource Act, No 25 of the SAHRA. If line or a	atural heritage r 1999 be identifi access road ler	esource as listed a ed, the requirements gth exceeds 300m	bove, or as defi s of Act 25 of 199 SAHRA shall be	ined in the National Heritage 9 shall be followed by notifying notified.
Potential impact	***************************************			
Comments/mitigating n	M	orenj		repore
7 Economic envi	ronment			Ü
/ / / / / / / / / / / / / / / / / / / /	rops jame farming	orchards forestry areas	grazing mining	crop spraying OTHER
Brief description	- lu	300	, 6	the order

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Annex	В
(continue	d)

Potential Impact	JD	jupa	L		
7.1.1 Commercial:	factories		ops	OTHER	orded
Brief description	pages		od (	P 0	
7.1.2 Infrastructure:	roads pipelines	railways sewage	communications OTHER	power lines	air fields
Brief description:	Screl	Lofus	3/0		
Potential impact		ro		reit	
Comments/mitigating	g measures:				
		100	lud	) De l	
			1	(	

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			Anne (contin						
What Ir 1.	mpact will this pr Physical	roject have on e	elements 4 to 7?						
No imp	eact (0)	Medium impa	ct (2)	High impact (4	4)				
2.	Natural		;						
No imp	pact (0)	Medium Impa	net (2)	High impact (4	4)				
3.	Social								
No im	pact (0)	Medium impa	act (2)	High impact (	4)				
	II impact: ( section addresse three spheres ( 0	es the overall e (physical, natura	onvironmental in all and social) ne	ipact of the proje ed to be consider 4	ect. The red to de	impacts as termine the	assesse overall in	d in t ipact	he
	No imp	pact /	ledium impact	High Impa	act				
If the Enviro	overall impac onmental Senior	et is between Superintenden	2 and 4, cont it.	act the Environ	mental I	Managemer	it Officer	or t	the
	natives								
Have	alternative route	es been discuss	sed with the rele	vant land owner/s	s or user	s?			
Yes No									
Deta	iled study								
ls an	environmental :	assessment req	uired in terms o	f Regulation R540	3?				
Yes No		-							
Sho	uld a permit app	lication be mad	e to DWA?						
Yes No		<del>-</del>							
Sho	uld 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 have been informed before any work is carried out on site. Contractors shall find out if the 1.1 landowners have been informed before moving onto site.
- No fences, gates or locks shall be damaged to obtain access onto a line route. Arrangements 1.2 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 at the contractor's expense and to the satisfaction of the landowner. This shall be the 1.3 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 be left open. Gates to adjacent properties or onto public roads shall be closed at all times. Any 1.4 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.
- Permission shall be obtained from landowners before any water is used. 1.5
- 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 1.6 in the veld.
- If activities that can cause a fire are carried out, fire extinguishers shall be available on site and in 1.7 the construction camp.
- 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.
- Eskom, Eskom's contractors and their employees shall at all times be courteous towards 1.9 landowners, tenants and the local community.
- 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 1.10 local community shall be avoided. Should conflict arise it shall be immediately reported to the 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 limit on public roads.
- 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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### 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*.
- 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.

2 Special conditions

protected trees. etc.).

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### Annex C (continued)

(Specific issues identified during the scoping as needing attention i.e. erosion berms, bird flappers,

***************************************	
TYPICAL MI	TIGATION MEASURES
ENVIRONMENTAL CONCERNS	MITIGATION MEASURES
AGRICULTURE	
Loss of standing crop due to access road and tower work site.	<ul> <li>limit width of access and size of tower site.</li> <li>avoidance of crop areas.</li> <li>monetary compensation for crop loss.</li> <li>time construction to avoid growing season.</li> </ul>
Soil Compaction	<ul> <li>scheduling activities to times of the year when solls 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	- maintain contact with landowner/tenant regarding preferences.
Loss of livestock	<ul> <li>employ noise control measures near sensitive livestock.</li> <li>Construction of farm gates.</li> <li>Securing farm gates.</li> <li>Clean-up construction materials which could be ingested.</li> <li>Compensation for lost, injured livestock.</li> </ul>
SOCIAL IMPACTS	wetting druppile
Mud and Dust	<ul> <li>wetting down dry solls.</li> <li>chemical control of dust.</li> <li>cleaning roads to remove mud.</li> <li>temporary planting of grasses.</li> </ul>

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### Annex C (continued)

	(OOTHINA 4)
Aesthetics	<ul> <li>screen with natural of planted vegetation restoration.</li> </ul>
	<ul> <li>avoid linear access down the right-of-way.</li> </ul>
	<ul> <li>addition of topsoil to gravel access roads.</li> </ul>
***	- hoarding construction sites.
	<ul> <li>Installation of landscaping in advance of site</li> </ul>
	completion.
nconvenience	- select route and method of installation to suit
Heolivetheries	landowners' conditions.
	- select timing of activity.
Levitago rocourgos	avoldance/isolation.
Heritage resources	- design measures to make facility less obtrusive.
	- screening.
	- alternate methods of equipment.
	the transport of analoguese harrier fencing
	covering.
	- salvage in conjunction with SAHRA.
	t it t wasten with CALIDA
	to the same to make facility lock obtrusive of
Tourism and recreation resources	
	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	- minimise use of slopes adjacent to streams during soils
eroslon from the right-of way.	testing, construction and maintenance.
erosion non all rest way,	- maintain a cover crop.
	- retain buffers.
Stream bank erosion.	- mechanical erosion control.
Stream bank erosion.	- retain shrubby stream bank vegetation and selectively
	cut or prune trees during line clearing/maintenance.
	l the second and backloides
	- selective spraying of nerbicides Mechanical erosion control.
	the street of th
Impedance of natural flow	
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.
Contamination of Surface of ground	- site selection where possible.
waters through spills or leaks of toxic	OKO GATAGONIA TATAN
substances.	- avoldance of rutting by vehicles where possible.
Soil compaction/topsoll-subsoil mixing.	turti thatis or
	a f annual reads
	- funtitude with law boaring procedures
	I was a study a whon ground conditions are noor
	- 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.
	- mechanical erosion control.