**ENVIRONMENTAL IMPACT ASSESSMENT FOR** 

**DISTRIBUTION ACTIVITIES** 

Unique Identifier:

240-72597722

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

## **Reticulation Powerlines and Ancillary Services**

Ratified and accepted by
Environmental Practitione HILLING
Environmental Specialist 28/08/20/4
Head of Engineering Survey
(one signature please) Rive his 12 wave
Accepted by Land Owner/s/Users
I have seen the completed document and accept the recommendations made
Assessoi/s
Form completed by 5.4 11 silver Signature:
in consultation with: By Signature:
III CONSUMATION WITH A A A A A A A A A A A A A A A A A A A
CAPACITY (e.g. land owner, specialist): 77. /2/1 OFF
DATE COMPLETED: 12/8/19

#### 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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Annex B (continued)

1 Project description
Project name/Survey  Request  Project number  Project number  Project number  Rural scheme/  Feeder  Supply from  (scheme name, pole numbers for tee off)  Supply to  (Farm name, etc.)
:
2 Properties traversed
Farm name  Registration number and Division  Compliation number 253/19CM Line length (m)  Farm name  Registration number and Division  Compliation number and Division  Line length/Site area (m²)
3 Brief description of the surrounding area
Bread leside-Tiel Career & Small 6 bream to be crossed Proberd lises to be trimed Soil is Sandy with cock
Could the proposed project have an impact on or be constrained by any of the following environmental 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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4 Physical	environment			
4.1 Water: (	streams rivers	dams wetlands	springs floodr	olains OTHER
Present condition	on:5.123.64.1	1 spears	:	
Potential impac	ct (e.g. threat of poll	illon): V10	17.5	
4.2 Soll:	(sandy)	(ocky	clayey	OTHER
Present condition	on: Sand	y, Pock	g sander	100 sul
Potential impac	Life a of erosion)	1100	~	gas OTHER 1.7.0.16
		•	/ / <sup>)</sup>	
Comments/miti	gating measures:	No	ne	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(**************************************	***************************************	******************	***************************************
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	*1*************************************	************	*********************	****************
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Document Classification: Controlled Disclosure **ENVIRONMENTAL IMPACT ASSESSMENT FOR** Unique Identifier: 240-72597722 **DISTRIBUTION ACTIVITIES** Revision: 1 Page: 21 of 70 Annex B (continued) 5 Natural environment 5.1 Flora: Indigenous (protected) exotic OTHER ..... Brief description and conservation status (e.g. jare, etc., mention trees/bush/grass) LA Mexica to de 1811006 comman impact (e.g. permit applications Potential impact (e.g. permit applications ..... 5.2 Fauna: mammals birds OTHER ..... Brief description and conservation status: (e.g. rare, protected, etc., montion giraffe, elephants, eagles, vultures, etc., mention migratory paths) MATERIAL Potential impact (e.g. threat of electrocution, collision, etc)..... 6 Social environment nature/game hiking trails tourism routes parks recreational 6.1 Restricted areas areas reserves

OTHER .....

Residential-

areas

green belts

sacred/holy

Lucal Residential carea

grounds

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		Annex B (continued)		
Potential impact e.g.		ment, etc	***************************************	
6.2 Visual aestheti	***************************************	hidden		partially
Brief description	Mull b	e essily	5.86.63	
**************************************	***************************************			
Potential impact		Dore		
6.3 Natural heritage	e; cultural significance	archaeological objects	monuments	palaeontological objects
	graves	meteorites	ruins	OTHER. 1911
Resource Act. No 25	of 1999 be identifi or access road ler	ed, the requirements agth exceeds 300m S	of Act 25 of 1999 AHRA shall be	ned in the National Herita I shall be followed by notifyin notified.
Comments/mitigating	measures	Nove		
		11014		*************************
41,504,60,775,000		<b>44444133844</b> 3344444444444444444444444444	.,	
7 Economic <del>o</del> nv	ronment			
7.1 Land use:	crops	orchards	grazing	crop spraying
	game farming	forestry areas	mining	OTHER (
		11.1		
Brief description		11/11	/L	*******************************
•				

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		Annex (continu			
Potential impact		None	: . · · ·		
7.1.1 Commercial:	factories	sho	ps	OTHER	***************************************
Brief description Potential impact	<i>\$ 1</i> .	CIE () 0	nothing s	oer hoj 13.s	<b>XX</b>
7.1.2 Infrastructure:	plpolinos	sewage (	communications		
Brief description:	Simul	Mairon	< shæl		
Potential impact		11015			
Comments/miligating	measures:	Mone	,	***************************************	
		***************************************		***************************************	***************************************

Document Classification: Controlled Disclosure 240-72597722 **ENVIRONMENTAL IMPACT ASSESSMENT FOR** Unique Identifier: **DISTRIBUTION ACTIVITIES** Revision: Page: 24 of 70 Annex B (continued) What impact will this project have on elements 4 to 7? Physical No Impact (0) High Impact (4) Medium impact (2) Natural No impact (0) Medium Impact (2) High Impact (4) Social No Impact(0) High impact (4) Medium impact (2) Overall impact: This section addresses the overall environmental impact of the project. The impacts as assessed in the above three spheres (physical, natural and social) need to be considered to determine the overall impact (Ú)) Medium impact High Impact No impact If the overall impact is between 2 and 4, contact the Environmental Management Officer or the Environmental Senlor Superintendent. **Alternatives** Have alternative routes been discussed with the relevant land owner/s or users? Yes No **Detailed study** Is an environmental assessment required in terms of Regulation R543? Yes No

### ESKOM COPYRIGHT PROTECTED

Should a permit application be made to DWA?

Should the SAHRA be notified?

Yes No

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 teft 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 camp, provision shall be made that no accidental fires are started. No firewood shall be collected in the vold.
- 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.
- 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 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 (continued)

- 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 tumped 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 tollet 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 needing attention i.e. erosion berms, bird flappers, protected trees, etc.).

Med permits for 4 Manula Iras To

### **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.     avoldance 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	<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	
Mud and Dust	wetting down dry solls.     chemical control of dust.     cleaning roads to remove mud.     temporary planting of grasses.

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# Annex C (continued)

	regress out to see	(continued)
Aesthetics	-	screen with natural of planted vegetation restoration.
	۳.	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
	<b> </b>	completion.
Inconvenience	1	select route and method of installation to suit
		landowners' conditions.
	-	select liming of activity.
Heritage resources	١-	avoldance/isolation.
	*	design measures to make facility less obtrusive.
	1	screening.
	-	alternate methods of equipment.
	-	protection by use of enclosures, barrier fencing,
		covering.
	1.	salvage in conjunction with SALIRA
	ļ	relocation in conjunction with SAHRA.
Tourism and recreation resources	1	design measures to make facility less obtrusive of
		disruptive.
	-	screening and restoration.
	-	minimise noise and dust.
	1-	safety precautions to protect the public.
	-	scheduling to avoid peak use periods.
WATER QUALITY	ļ	
Sedimentation of streams due to	١.	minimise use of slopes adjacent to streams during soils
erosion from the right-of way.		testing, construction and maintenance.
	-	maintain a coyer crop.
	ļ.—	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	-	use and maintenance of appropriate stream crossing
streams/others surface waters.		device.
Ponding or channelization of surface	٠	timing activities to stable ground conditions.
waters due to rutting.	<u> </u>	use of gravel roads.
Contamination of surface or ground	-	spill control material and procedures readily available.
waters through spills or leaks of toxic	-	site selection where possible.
substances.	<u> </u>	
Soil compaction/topsoil-subsoil mixing.	-	avoidance of rulting by vehicles where possible.
•	-	construction timing.
	-	use of gravel roads.
	1	use of vehicles with low bearing pressures.
	•	
	-	stop activities when ground conditions are poor.
Wind/water erosion.	-	avoldance of areas with high erosion potential.
Wind/water erosion.	<u>-</u>	avoldance of areas with high erosion potential. timing activities to the most stable ground conditions.
Wind/water erosion.	<u>-</u>	avoldance of areas with high erosion potential.
Wind/water erosion.	- -	avoldance of areas with high erosion potential. timing activities to the most stable ground conditions.
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.
Wind/water erosion.	- - -	avoidance of areas with high erosion potential. timing activities to the most stable ground conditions, slope stabilisation. mechanical erosion control.