# DOCUMENT CLASSIFICATION: CONTROLLED DISCLOSURE

ENVIRONMENTAL IMPACT ASSESSMENT FOR Unique Identifier: DISTRIBUTION ACTIVITIES

PERMIT REQUIRED

34-926

Type:

DPC

Revision:

DRAFT OA

Page:

1 of 7

## 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
I have seen the completed document and accept the recommendations made
Form completed by A-Nestauvu . Signature . Signature in consultation with : AV A905ert & Signature
CAPACITY (e.g. land owner, specialist):
DATE COMPLETED: 9 SEPTEMBER 2020.

### Instructions

- Fill the report in as neatly and completely as possible.
- 2. Where the question / statement is not applicable mark N/A.
- 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.

## ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

Page:

19 of 70

### Annex B (continued)

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4 0	2			
7 200	UDPT	വടെ	CEIDI	non
1 Pro	The last	400	01.1921	444

(scheme name, pole numbers for tee-off) Supply to Vanou 5  (Farm name, etc.)  2 Properties traversed  Farm name Registration number and Division Compilation number 2332 CB: Line ler  Registration number and Division Compilation number 2332 CB: Line ler  Registration number 2332 CB: Line ler  3 Brief description of the surrounding are	£7
Properties traversed  Farm name  Registration number and Division  Compilation number 23 PCB: Line ler  Registration number and Division  Registration number and Division  Compilation number 2330 CB: Line ler  Compilation number 2330 CB: Line ler	67
Farm name  Registration number and Division 479  Compilation number 2320 CB Line ler  Farm name 444474670  Registration number and Division 426 L7  Compilation number 2330 C-B Line ler	67
Registration number and Division 479 Compilation number 23 CB Line ler Farm name 4449 Registration number and Division 426 C7 Compilation number 2330 CB Line ler	LT
Compilation number 2330 C.65 Line lar	Sub-division 47
Brief description of the surrounding are	th/Site area (m <sup>2</sup> )
MAVELE VILLAGE ON FA	
VILLAGE CONSIST OF STRUCE	
Heres.	RES INC MARILLA

mental

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.

# ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier

240-72597722

Revision

1

Page:

20 of 70

## Annex B (continued)

4 Physical e	nvironment	1			
one compete to	streams rivers	dams wet	landa springs	floodplains	OTHER
Present conditio	n None	***************************************	***************************************		
Potential impact	(e.g. threat of po	flution): N.A	•		***************************************
34444444444444444444444444444444444444		******************************			
4.2 Soil:	sandy	rocky	claye	ey	OTHER
Present condition	n Set	SOIL			
Potential impact	(e.g. of erosion)	NA-	***************************************		
4.3 Topograph	y mountains	ridges hills	valleys ravines	dongas	OTHER
Present condition		IS FLA	z		
	(e.g. of erosion)	PV . A	•		
Comments/mitig	gating measures				
	**************		/		27.000.000.000.000.000.000.000.000.000.0
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	***************************************	/	A	Openius constitution	
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## ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier.

240-72597722

Revision:

1

Page:

21 of 70

# Annex B (continued)

Ed Class	Indiannous	protecte	nd .	exotic	OT	HER
5.1 Flora:	indigenous	protects	eu .	EXOUL	01	OCC Junior III
Brief description a	A TREE			-00	T.700-000-077	
Potential impact (	e.g. permit appl	cations	Tem	PERMI;	r RE	GUIRED
5.2 Fauna:	mamm	als	birds		OTHER	
Brief description	and conservation	status:				
(e.g. rare, protect	ed, etc., mention	n giraffe, elepha	nts, eagles, vi		mention	migratory paths)
	***************************************			0.000		
Potential impact	(e.g. threat of ele	ectrocution, collis	sion, etc)	V.4		
}*************************************	***************************************					
Comments/mitiga	ating					measu
*******************			/	WWW.		41 910 944 317 327 377 477 477 477
						**************************************
Marie Control Control Control		ommoney finn				***************************************
		f				():
6 Social envi	ironment					
6.1 Restricted areas:	nature/game reserves	hiking trails	tourism ro	utes	parks	recreational areas
Residential- areas	green belts	sacred/holy grounds	OTHER	**********		
Daine description	NONE					

# ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

4

Page:

22 of 70

Detected inspect to the	threat of an arrand	Annex B (continued) ment, etc		
		hidden		partially
6.2 Visual aesthetic	s: easily seen	nioden		peruaky
Brief description 4	powers	INES PEC	use In	MID-BOCK
otential impact	NA·			
3.3 Natural heritage	e: cultural significance	archaeological objects	monuments	palaeontological objects
	Significatives.			
lote: Should any	graves	meteorites resource as listed a	ruins	OTHER
Resource Act, No 25 he SAHRA. If line o	graves natural heritage of 1999 be identi	meteorites resource as listed a fied, the requirements ngth exceeds 300m	above, or as define s of Act 25 of 1999 SAHRA shall be	ned in the National Heri shall be followed by notifinotified.
Resource Act, No 25 he SAHRA. If line o	graves natural heritage of 1999 be identi	meteorites resource as listed a fied, the requirements	above, or as define s of Act 25 of 1999 SAHRA shall be	ned in the National Heri shall be followed by notifinotified.
Resource Act, No 25 he SAHRA. If line of Potential Impact	graves natural heritage of 1999 be idention access road le	meteorites resource as listed a fied, the requirements ngth exceeds 300m	shove, or as defined as of Act 25 of 1999 SAHRA shall be	ned in the National Heri shall be followed by notif notified.
Resource Act, No 25 he SAHRA. If line of Potential Impact Comments mitigating FOURTE	graves  natural heritage of 1999 be identifor access road le	meteorites resource as listed a fied, the requirements ngth exceeds 300m	shove, or as defined as of Act 25 of 1999 SAHRA shall be	ned in the National Heri shall be followed by notif notified.
Resource Act, No 25 he SAHRA. If line of comments mitigating	graves  natural heritage of 1999 be identifor access road le	meteorites resource as listed a fied, the requirements ngth exceeds 300m	shove, or as defined as of Act 25 of 1999 SAHRA shall be	ned in the National Heri shall be followed by notif notified.
Resource Act, No 25 the SAHRA. If line of Potential impact Comments/mitigating CAHC 7 Economic env	graves  natural heritage of 1999 be identified access road le  Nave see	meteorites  resource as listed a fied, the requirements ingth exceeds 300m  ALKING  CLEEDS 30  FICATION	above, or as defined for the sof Act 25 of 1998 SAHRA shall be curefy	ned in the National Heri I shall be followed by notif notified.

## ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

4

Page:

23 of 70

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		nue	

Potential impact	NA.	***************************************			
7.1.1 Commercial:	factories		shops	OTHER	
Brief description Potential impact	NoNE . Y.A ·				
7.1.2 Infrastructure	; roads pipelines	railways sewage	communications OTHER	power lines	air fields
Brief description:	GENTEL ERISTING	STRE	TS.	INFRAS	RUCTURE
Potential impact	N.4				
Comments/mitigation	ng measures:				

## ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

24 of 70

## Annex B

(continued)

What impact will this project have on elements 4 to 7?

Physical

No impact (D)

Medium impact (2)

High impact (4)

Natural

No impact (0)

Medium impact (2)

High impact (4)

Social

No impact (0)

Medium impact (2)

High impact (4)

Overall impact:

This section addresses the overall environmental impact of the project. The impacts as assessed in the above three spherae (physical, natural and social) need to be considered to determine the overall impact

No Impact

2 Medium impact

High Impact

If the overall impact is between 2 and 4, contact the Environmental Management Officer or the Environmental Senior Superintendent.

#### Alternatives

Have alternative routes been discussed with the relevant land owner/s or users?

Yes No V

#### Detailed study

is an environmental assessment required in terms of Regulation R543?

Yes

No

1/

Should a permit application be made to DWA?

Yes

res \_\_\_\_\_

Should the SAHRA be notified?

Yes

V

## ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

25 of 70

## 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 yeld.
- 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 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.

## ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

26 of 70

## 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 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.

## ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier.

240-72597722

Revision:

4

Page:

28 of 70

### Annex C (continued)

Aesthetics	<ul> <li>screen with natural of planted vegetation restoration.</li> <li>avoid linear access down the right-of-way.</li> <li>addition of topsoil to gravel access roads.</li> <li>hoarding construction sites.</li> <li>installation of landscaping in advance of site completion.</li> </ul>
Inconvenience	<ul> <li>select route and method of installation to suit landowners' conditions.</li> <li>select timing of activity.</li> </ul>
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.	<ul> <li>minimise use of slopes adjacent to streams during soils testing, construction and maintenance.</li> <li>maintain a cover crop.</li> <li>retain buffers.</li> </ul>
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.	<ul> <li>use and maintenance of appropriate stream crossing device,</li> </ul>
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.	- 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.

## ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

27 of 70

### Annex C (continued)

2 Special conditions	
(Specific Issues identified during the scoping a protected trees, etc.).	as needing attention i.e. erosion berms, bird flappers,
TYPICAL MITI	GATION MEASURES
THOALIMIT	GATION MEAGSNEG
ENVIRONMENTAL CONCERNS	MITIGATION MEASURES
AGRICULTURE	

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 soils are least susceptible to compaction.</li> <li>stop activities when ground conditions are poor, use of equipment with low bearing capacity.</li> <li>chisel ploughing.</li> </ul>
Construction of new lines	- locate 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.