ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

TIES Revision:

,

1

Page:

18 of 70

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	X West
I have seen the completed document	and accept the
recommendations made	
Form completed by M5Ramo	Assessor/s
in consultation with: KR.Jansen.van	Vuuren Signature:
CAPACITY (e.g. land owner, specialis	st): Å Land Owner
DATE COMPLETED: A 26/07/2022.	

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.

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision: Page:

1

19 of 70

Annex B (continued)

1	Project description
Pr Re	oject name/Survey ESKOM Area Belg Belg Cipally oject number POK-WR Interconnectile number
Fe Su	eder ROK-WR Voltage 22kv pply from TUYF lagate \ Otameland WR 367/156/2
Su (Fa	pply to
2	Properties traversed
Fai	m name TWY 10991e gistration number and Division 35 DR Sub-division 14
Re	distration number and Division 3.5 DR sub-division
Co	mollation number Line length (m) 41 m
Fai	m name luxflaaate
Re	distration number and Division 35 JK sub division
Co	mpilation number Line length (m)
_	Dulaf denoulution of the comment
	Brief description of the surrounding area The New Line T-GFS at pole M/k/267/466130 and 1997.
	WR 267/156/30 and into Pankoppen
••••	The live covers 41 meters at
····	farm Turflaggie only. Thorn
	I trees to be bush cleased

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.

ESKOM COPYRIGHT PROTECTED

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier.

240-72597722

Revision:

1

Page:

18 of 70

Annex B - Distribution Environmental Screening Document (DESD)

(naomena)
Reticulation Powerlines and Angillary Schools A
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 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Form completed by M.J. Ramad Signature: Assessor/s
In consultation with XSignature: A
CAPACITY (e.g. land owner, specialist):
DATE COMPLETED:

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.

ESKOM COPYRIGHT PROTECTED *

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

19 of 70

Annex B

(continued)
1 Project description
Drate division and
Project name/Survey ESICOM Request One Area Local Mydiciadity
Project number 100 Entertonne Elia number
Rural scheme/ A
Feeder VOIC-WR Voltage 22 KU Supply from VVR 261/156/30 X ROKI/31/192 (scheme name, pole numbers for tee-off)
(scheme name, pole numbers for tee-off)
Supply to Partion 1 y Pankoppen 36 JR
(Farm name, etc.)
2 Properties traversed
Fantana
Registration number and Division 3.0 T.K. Subdivision
Compilation number 2528 AB Line length (m) 2.6000
Controller
Registration number and Division
Compliation number 2528 TR. Line length/Site area (m²) [2.600m] 2
3 Brief description of the surrounding area
Thirtelangte Demin 5 and tratiers
Portion I de Pankoppen Avency
the busil past the Earth of m
and in to the Village where it.
There are graving and revited forwarded
Could the proposed project have an impact on or he constrained by
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 Management Programme.

ESKOM COPYRIGHT PROTECTED

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

19 of 70

Annex B (continued)

1 Project description

Project name/Survey Request Project number ROK-WR File number Rural scheme/ Feeder Supply from (scheme name pole numbers for tee-off) Supply to (Farm name, etc.) Area Bela Bela Local Munic File number File number RAGULL File number ROK-WR F
2 Properties traversed
Registration number and Division Compilation number 2528 AB Line length (m) Registration number and Division Compilation number and Division Compilation number b Line length/Site area (m²)
3 Brief description of the surrounding area The new me is is about #ISM Produce and them trees "soetdoring" Out either side of the farm fence It A red turf Soul and the are doug and family ourds feeding on the 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.

ESKOM COPYRIGHT PROTECTED

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

20 of 70

Physical	environi	ment		(continue	ed)		
1 Water:	streams	rivers	dams	wetlands	springs	floodplains	OTHER

Annex B

Potential impact (e.g. threat of pollution):	
Potential impact (e.g. threat of pollution):	*******

	•••••

? Soil:	sandy	rocky
	\ '-/	

clayey

OTHER

Present condition: Sandy and red clayer
Potential impact (e.g. of erosion) Compuct Levyann
Present condition: Soundy and red Clayer Potential impact (e.g. of erosion) Compact Ferraum 4.3 Topography mountains ridges hills valleys ravines dongas OTHER Hard & Sught
Present condition: Hat terrain and slightly slop
Potential impact (e.g. of erosion) COMPAIN JENVAM
Comments/mitigating measures: DOV Mal construction of

ESKOM COPYRIGHT PROTECTED

ENVIRONMENTAL IMPACT ASSESSMENT FOR

DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

21 of 70

			Annex B (continued)				
5 Natural er	nvironment		·			•	
5.1 Flora:	indigenous	prot	ected	exotic	OTHER		
Brief description	and conservation				ush/grass)		
Potential impact	t (e.g. permit app	lications	********************	••••••••••			,
5.2 Fauna:	mamn	nals	birds)	OTHER	······································	
Brief description (e.g. rare, protection	and conservation ted, etc., mention	n status: n giraffe, elep	hants, eagles,	vultures, etc	c., mention migrator	y paths)	
Potential impact	(e.g. threat of el	ectrocution, co	ollision, etc) VLSTY L	USio.	Ц -		
Comments/mitig	ating Mon y	nal	Co	notru	idion	measures:	
••••••			***************************************	*** *** *** *** *** ***	* * * * * * * * * * * * * * * * * * * *	******	
Social envi	ronment						
6.1 Restricted treas:	nature/game reserves	hiking trails	tourism r	outes	parks recrea	ational	
Residential- areas	green belts	sacred/holy grounds	OTHER	gras	me for	westock	- -
Brief description	land ing to	wed	fol n	si der	stial as	ud	

ESKOM COPYRIGHT PROTECTED

Document Classification: Controlled Disclosure **ENVIRONMENTAL IMPACT ASSESSMENT FOR** Unique Identifier: 240-72597722 DISTRIBUTION ACTIVITIES Revision: 1 Page: 22 of 70 Annex B (continued) Potential impact/e.g. threat of energeoment, etc. 6.2 Visual aesthetics: nidden partially... 6.3 Natural heritage: cultural archaeological monuments palaeontological significance objects objects graves meteorites OTHER..... ruins Note: Should any natural heritage resource as listed above, or as defined in the National Heritage Resource Act, No 25 of 1999 be identified, the requirements of Act 25 of 1999 shall be followed by notifying the SAHRA. If line or access road length exceeds 300m SAHRA shall be notified.

7 Economic environment

7.1 Land use:

crops

game farming

orchards

forestry areas

grazing

mining

crop spraying

OTHER MESI almoral

Brief description LAVIA LASEM FON MENSIONE CIC.

ESKOM COPYRIGHT PROTECTED

Document Classification: Controlled Disclosure	•	
ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES	Unique Identifier:	240-72597722
DISTRIBUTION OF THE STATE OF TH	Revision:	1
<u> </u>	Page:	24 of 70
Annex (continue What impact will this project have on elements 4 to 7?		
1. Physical		
No impact (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)	
Overall impact: This section addresses the overall environmental impact above three spheres (physical, natural and social) need to 2	t of the project. The impacts to be considered to determine the	as assessed in the le overall impact
No impact Medium impact	High impact	
If the overall impact is between 2 and 4, contact Environmental Senior Superintendent.	the Environmental Manageme	ent Officer or the
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 Reg	ulation R543?	
Yes	•	
No		
Should a permit application be made to DWA?		
YesNo		
Should the SAHRA be notified?		
Yes		

ESKOM COPYRIGHT PROTECTED

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

23 of 70

Annex	E
(continue	d)

Potential impact	formal	constru	dion.	
7.1.1 Commercial:	factories	shops	OTHER	
Brief description	rere are	shops a	(spaga sl	iops,
7.1.2 Infrastructure: Brief description:	(pipelines) sewag	rs communicati e OTHER S	freets	
Potential impact	***********		***************************************	41444444444444444
Comments/mitigating	measures:	structu	9 U	
.,,				

ESKOM COPYRIGHT PROTECTED

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.
- 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.
- 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.
- 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 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.

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 protected trees, etc.).									
	• • • • • • • • • • • • • • • • • • • •	•••••		************	•••••		••••••	••••••	•••
		••••		••••••	******	************	***********	••••••	
***************************************		•••••	************	*************	••••••	••••••	•••••	••••••	•••
	*****************	• • • • • • • • • • • • • • • • • • • •		••••••	•••••	••••••	**********		•••

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	 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.
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.
SOCIALIMPACTS	
Mud and Dust	 wetting down dry soils. chemical control of dust. cleaning roads to remove mud. temporary planting of grasses.

ESKOM COPYRIGHT PROTECTED

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

28 of 70

Annex C (continued)

Aesthetics	 screen with natural of planted vegetation restoration.
1	
1	 avoid linear access down the right-of-way.
	 addition of topsoil to gravel access roads.
	- hoarding construction sites.
1	- installation of landscaping in advance of site
Inconvenience	completion.
INCOLIVE HEIDE	- select route and method of installation to suit
1	landowners' conditions.
Heritage resources	- select timing of activity.
Tremage resources	4 V (4 C) (5 C) (5 C) (6 C) (7 C)
	 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.
İ.	- screening and restoration.
	- minimise noise and dust.
1.	- safety precautions to protect the public.
	 scheduling to avoid peak use periods.
	- 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
j .	 selective spraying of herbicides.
luna de la constante de la con	- Mechanical erosion control.
Impedance of natural flow -	use and maintenance of appropriate stream crossing
streams/others surface waters.	device.
Ponding or channelization of surface -	animing — our read to deadle gradified to redition is.
waters due to rutting.	use of gravel roads.
Contamination of surface or ground -	This partial at the procedures results available
waters through spills or leaks of toxic -	
substances.	·
Soil compaction/topsoil-subsoil mixing	a rotation of latting by vehicles which pussible
-	construction timing.
ļ -	440 01 914101 10444.
ļ -	TO DI TOTTO WILL TOW DOGITHE DI COSTI CO.
- 1AE16	 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.
ļ -	medianical croston control.
-	vegetation erosion control.
[-	recompaction of trenches. avoid trenching parallel to the fall of a slope.

ESKOM COPYRIGHT PROTECTED

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

28 of 70

Annex C (continued)

Aesthetics	(continued)
Aestretics	 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
Inconvenience	completion.
Inconvenience	- select route and method of installation to suit
	landowners' conditions.
No site de la companya de la company	- 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.
Tourism and recreation resources	- relocation in conjunction with SAHRA.
rounsmand recreation resources	- design measures to make facility less obtrusive of
	disruptive.
	- screening and restoration.
	- minimise noise and dust.
	- safety precautions to protect the public.
WATER QUALITY	 scheduling to avoid peak use periods.
Sedimentation of streams due to	
erosion from the right-of way.	- minimise use of slopes adjacent to streams during soils
erosion from the right-of way.	l testing, construction and maintenance
	- maintain a cover crop.
Stream bank erosion.	- retain buffers.
ou cam bank crosion,	- mechanical erosion control.
	- retain shrubby stream bank vegetation and selectively
	cut or prune trees during line clearing/maintenance.
	- selective spraying of herbicides.
Impedance of natural flow	- Mechanical erosion control.
streams/others surface waters,	- use and maintenance of appropriate stream crossing
Ponding or channelization of surface	device.
waters due to rutting.	- timing activities to stable ground conditions.
<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.	
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.
112.11	 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.
l	
	 vegetation erosion control.
	 vegetation erosion control. recompaction of trenches. avoid trenching parallel to the fall of a slope.

ESKOM COPYRIGHT PROTECTED