ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

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

I have seen the completed document and accept th

recommendations made

A	25	es	SC	r/	c

Form completed by

9.Signature:

CAPACITY (e.g. land owner, specialist):

D SWEEDSHAME

DATE COMPLETED: 2019 11011

Instructions

- 1. Fill the report in as neatly and completely as possible.
- 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.

DEPARTMENT OF CO-OPERATIVE GOVERNANCE; HUMAN SETTLEMENTS & TRADITIONAL AFFAIRS BANARENG DA SEKORORO TRADITIONAL COUNCIL

2019 -10- 10

P. O. BOX 48 TRICHARDTSDAL 0890

MOPANI DISTRICT SUPPORT CENTRE

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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 Rural scheme/ Feeder Supply from Su
(scheme name, pole numbers for tee-off)
Supply to VIICE (Farm name, etc.)
2 Properties traversed
Farm name
Registration number and Division Sub-division Sub-division Line length (m) MY= 34 1 LV = 1076 , 4pg/ade 142,5
Compilation number Line length (m) 11175 24 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Farm name
Registration number and Division
Compliation number
3 Brief description of the surrounding area
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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ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

20 of 70

Annex B (continued)

4 Physical environment
4.1 Water: streams rivers dams wetlands springs floodplains OTHER
Potential impact (e.g. threat of pollution):
r oterital impact (e.g. tilleat or pollution).
4.2 Soil: sandy rocky clayey OTHER
Present condition: Beige Sandy to Make Sal
Potential impact (e.g. of erosion) Minimal.
4.3 Topography mountains ridges hills valleys ravines dongas OTHER
Present condition: Proposed Electrification is on a mountain
Potential impact (e.g. of erosion) Rock drilling required.
Comments/mitigating measures:

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ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

21 of 70

Annex B (continued)

5 Natural en	vironment					
5.1 Flora:	indigenous	protect	ed exotic	O 1	THER	
Grees.	60 00	Cut and	re, etc., mention tre		2 Mary	7
5.2 Fauna:	mamm	nalś	birds	OTHER	₹	
- Bal	ted, etc., mentio	n giraffe, elepha	nts, eagles, vultures			
			sion, etc)	vd,		
Comments/mitigation	ating				mea	sures:
6 Social env	ironment					
6.1 Restricted areas:	nature/game reserves	hiking trails	tourism routes	parks	recreational areas	
Residential- areas	green belts	sacred/holy grounds	OTHER			
Brief description	Proposed	ejectr	Gradien is	for re	sodonbal	Stand

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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 encroachment, etc. 6.2 Visual aesthetics; easily seen hidden Brief description Potential impact 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. Comments/mitigating measures 7 Economic environment 7.1 Land use: crops orchards grazing crop spraying game farming forestry areas mining OTHER

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ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

23 of 70

Annex B (continued)

Potential impact	jah im	act			
7.1.1 Commercial:	factories		shops	OTHER .	
Brief description	ore one				
7.1.2 Infrastructure:	roads pipelines	railways sewage	communications	power lines	air fields
Brief description:	sne				
Potential impact					
Comments/mitigating	measures:				
	<mark></mark>		·····	•••••	

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ENVIRONMENTAL IMPACT ASSESSMENT FOR			Unique Identifier:	240-72597722			
DISTRIBUTION	ACTIVITIES		Revision:	1			
			Page:	24 of 70			
		Annex I					
What impact will th 1. Physical	is project have on elements 4	to 7?					
No impact (0)	(Medium impact (2)	Н	ligh impact (4)				
2. Natural							
No impact (0)	Medium impact (2)	Сн	ligh impact (4)				
3. Social							
No impact (0)	Medium impact (2)	Н	igh impact (4)				
above three sphereNo in	sses the overall environmentals (physical, natural and social 0 2 2 mpact Medium impa) need to	be considered to determine to 4 High impact	the overall impact			
Environmental Sen		omaor ii	io zimomional managor	none officer of the			
Alternatives							
Have alternative ro	utes been discussed with the r	elevant la	and owner/s or users?				
Yes No							
Detailed study							
Is an <i>environmenta</i>	al assessment required in terms	s of Regu	lation R543?				
Yes V							
Should a permit ap	plication be made to DWA?						
Yes V							
Should the SAHRA	be notified?						
YesNo							

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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.
- 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.
- 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 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 Spec	cial co	nditions			7.9								
(Specific		identified etc.).	during	the	scoping	as	needing	attention	i.e.	erosion	berms,	bird	flappers,
311111111111111111111111111111111111111													

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

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ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

28 of 70

Annex C (continued)

	(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. select route and method of installation to suit landowners' conditions.
Heritage resources	 select timing of activity. 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. 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	conduming to avoid peak use perious.
Sedimentation of streams due to	- minimise use of slopes adjacent to streams during soils
erosion from the right-of way.	 minimise use of slopes adjacent to streams during soils testing, construction and maintenance.
	- maintain a cover crop.
	- retain buffers.
Stream bank erosion.	- mechanical erosion control.
Charles and Colonia	 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 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.	 spill control material and procedures readily available. 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.
Mr. II	 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.

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