ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

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 a

recommendations made

Form completed by in consultation with:

CAPACITY (e.g. land owner, specialis) 111

DATE COMPLETED:

Instructions

- 1. 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!!!

Extra sheets of paper may be added and referenced if insufficient space has been provided.

DEPARTMENT OF CO-OPERATIVE GOVERNANCE HUMAN SETTLEMENTS & TRADITIONAL AFFAIRS PULANA MAROGA

TRADITIONAL COUNCIL

2022 -11- 10

P.O. BOX 39 DRIEKOP, 1129

SEKHUKHUNE DISTRICT SUPPORT CENTRE

ESKOM COPYRIGHT PROTECTED

When downloaded from the WEB, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorized version on the WEB.

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 Sekhukhung Distrut Area Stectpoort Project number SS43688665 File number Rural scheme/ Feeder Steetpoort worther Voltage 28 KU Supply from
(scheme name, pole numbers for tee-off) Supply to (Farm name, etc.)
2 Properties traversed
Farm name Registration number and Division Compilation number 2430CB: Line length (m) Farm name
Registration number and Division
3 Brief description of the surrounding area here are no trees to cut nor trans
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.

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

20 of 70

Annex B (continued)

Physical env	vironment
.1 Water: stre	eams rivers dams wetlands springs floodplains OTHER
resent condition:	
Potential impact (e.g. threat of pollution):
40 0-11	sandy rocky clayey OTHER
4.2 Soil:	Salidy
Present conditio	on: Sandy Sil
	t (e.g. of erosion)
4.3 Topograph	ny mountains ridges hills valleys ravines dongas OTHER
	on There is a dorage crosse
Present condition	on: INC.
Potential impac	ct (e.g. of erosion)
Comments/mit	rigating measures: $\mathcal{H} \mathcal{D}$
Commentamin	againg mean

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

21 of 70

Annex B (continued)

5 Natural envi	ironment				40
5.1 Flora:	indigenous	protected	exotic	ОТН	IER MIN
.,,			etc., mention trees/bus	h/grass)	HID
Potential impact (e.g. permit applic	cations			
5.2 Fauna:	mamma	ls)	birds	OTHER	
Brief description a		giraffe, elephants	s, pagles, vultures, etc.	, mention n	nigratory paths)
Potential impact	(e.g. threat of ele	ectrocution, collision	on, etc)	B	
Comments/mitiga	ating	HID			measures
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	Ras	nde ntral	ara.		

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

22 of 70

		Annex (continued	d)	
Potential impact e.g. three	eat of encroach	ment, etc	MID	
6.2 Visual aesthetics:	easily seen	hidde	n	partially
Brief description	HIF	} -		
Potential impact				
6.3 Natural heritage:	cultural significance	archaeological objects	monuments	palaeontological objects
	graves	meteorites	ruins	OTHER
Note: Should any nat Resource Act, No 25 of the SAHRA. If line or a	tural heritage re 1999 be identifie ccess road len	esource as listed ed, the requiremen gth exceeds 300n	above, or as defir ts of Act 25 of 1999	ned in the National Heritage shall be followed by notifying
Potential impact		AIN.		
Comments beilt aut				
Comments/mitigating me	easures	MI	A	
7 Economic enviro	nment			
7.1 Land use: crop	os ne farming	orchards forestry areas	grazing mining	crop spraying OTHER
Brief description	MIA			

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

23 of 70

Annex B (continued)

Potential impact	MIA				
7.1.1 Commercial:	factories		shops	OTHER	410
Brief description Potential impact		MIA H	(P		
7.1.2 Infrastructure:		railways sewage	communications OTHER	power lines	air fields
Brief description:					
Potential impact		MB		- 100 - 100 m st. 20	
Comments/mitigatir	ng measures	: H)	(X		

ESKOM COPYRIGHT PROTECTED

Document Classification: Controlled Disclosure **ENVIRONMENTAL IMPACT ASSESSMENT FOR** Unique Identifier: 240-72597722 **DISTRIBUTION ACTIVITIES** Revision: 1 Page: 24 of 70 Annex B (continued) What impact will this project have on elements 4 to 7? 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 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 No impact 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 **Detailed study** Is an environmental assessment required in terms of Regulation R543? Yes No Should a permit application be made to DWA?

ESKOM COPYRIGHT PROTECTED

Yes No

Yes No

Should the SAHRA be notified?

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

25 of 70

Annex C - Environmental Management Plan

(Nomative)

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.
- 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.
- 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.
- 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.
- 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 the scoping as needing protected trees. etc.).	attention i.e. erosion berms, bird flappers,

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. 		

ESKOM COPYRIGHT PROTECTED

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.
이 요. 전 하다 개택원하다 사람이다.	- avoid linear access down the right-of-way.
보다 그 사람이 아니라 하는 것이 없는데 하는데 없다.	- addition of topsoil to gravel access roads.
보는 그 경기 시하인 과회 모델 (1001)	- hoarding construction sites.
	- installation of landscaping in advance of site
	completion.
Inconvenience	- select route and method of installation to suit
	landowners' conditions.
	- 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.
	- 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	The state of the s
Sedimentation of streams due to	- 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.
	- 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	- 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.
waters through spills or leaks of toxic	- site selection where possible.
substances.	- avoidance of rutting by vehicles where possible.
Soil compaction/topsoil-subsoil mixing.	- construction timing.
	- use of gravel roads.
	- use of vehicles with low bearing pressures.
	the activities when ground conditions are noor
W. 11.	- stop activities when ground conditions are peer. - avoidance of areas with high erosion potential.
Wind/water erosion.	timing activities to the most stable ground conditions
	-lane atabilisation
	a shaping control
	- vegetation erosion control recompaction of trenches.
	recompaction of trendies.
	- avoid trenching parallel to the fall of a slope.

ESKOM COPYRIGHT PROTECTED