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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
Assessor/s
Form completed by TM Lebea Signature:
in consultation with: NL FaulevE Signature:
CAPACITY (e.g. land owner, specialist): LAND OWNER.
DATE COMPLETED: 18 11 2020.

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 Management Programme.

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Project name/Su Request Project number Rural scheme/	N L Fourie SEL375803749 (SEL346974479)	Area LEPHALALE File number
Feeder Supply from	WA295/88	Voltage
(scheme name, p Supply to (Farm name, etc.	Portion 5 of the farm Rie	
2 Properties	traversed	
Farm name	NONE	
Registration num	ber and Division	Sub-division
Farm name	ber Line le	ength (m)
Registration num	ber and Division	Sub-division
Compilation numl	perLine le	ength/Site area (m²)
		be constrained by any of the following environment
Encircle the appropriate	opriate aspect, giving a description	of the present state as well as an indication of sures for these impacts are to be included in

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			Annex (continued				
4 Physical er	vironment						
500 11 10000000000000000000000000000000	reams rivers		etlands	springs	floodplains	OTHER	
Present condition	Wetland area	l					
Potential impact (e.g. threat of poll	ution): None		•••••••••••			
	••••••••••••		•••••••		••••••	••••••••••••	
***************************************					•••••••		
4.2 Soil:	sandy	rocky		clayey		OTHER	
Present condition:	Sandy					•	
Potential impact (e	.g. of erosion)	Vater passes	through	during ra	iny seasor	i	
1.3 Topography			valleys			OTHER	
Present condition:	valley	***************************************					
otential impact (e.	g. of erosion)	Mail Colling Introductions					
comments/mitigating	NT / A	******************************					
••••••		······································	•••••••	***************	••••••••		
·····	**************************		·····	**************			
••••••••••••		·····	************			***************************************	
				••••••			

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			Annex B (continued)				
5 Natural e	environment		(continuou)				
5.1 Flora:	indigenou	protec	cted	exotic	01	HER	
Brief description	on and conservat	ion status (e.g. ra	are, etc., ment	ion trees/bu	ush/grass).	Morula trees	
Potential impa	ct (e.g. permit ap	plications		•••••••	•••••••		
5.2 Fauna:	mam	••••••	birds	*****************	•••••••	······································	
(e.g. rare, prote	n and conservati	on giraffe, elepha	ants, eagles, v				
***************************************	t (e.g. threat of e		••••••	None		***************************************	
	N/A					measu	res:
6 Social env	ironment		•••••	•••••••••••••••••••••••••••••••••••••••			
6.1 Restricted areas:	nature/game reserves	hiking trails	tourism rou	utes	parks	recreational areas	
Residential- areas	green belts	sacred/holy grounds	OTHER			GI COS	
Brief description .	None	•••••	***************************************				

Document Classification: Controlled Disclosure **ENVIRONMENTAL IMPACT ASSESSMENT FOR** Unique Identifier: 240-72597722 **DISTRIBUTION ACTIVITIES** Revision: Page: 22 of 70 Annex B (continued) None Potential impact e.g. threat of encroachment, etc 6.2 Visual aesthetics: easily seen hidden partially..... Open space with bushes around it Potential impact None 6.3 Natural heritage: cultural archaeological monuments palaeontological significance objects objects graves meteorites ruins OTHER..... 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. None Potential impact 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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New Farm

Brief description

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Annex	B
(continue	d)

Potential impact	None			••••••	
7.1.1 Commercial	: factories		shops	OTHER	
					Berry A, TP
7.1.2 Infrastructur	re: roads pipelines		communications OTHER		air fields

Comments/mitigat	ing measures:	N/A			

Document Classification: Controlled Disclosure Unique Identifier: 240-72597722 **ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES** 1 Revision: Page: 24 of 70 Annex B (continued) What impact will this project have on elements 4 to 7? **Physical** High impact (4) No impact (0) Medium impact (2) 2. Natural Medium impact (2) No impact (0) 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 0 2 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 No **Detailed study** Is an environmental assessment required in terms of Regulation R543? Yes

Should the SAHRA be notified?

Should a permit application be made to DWA?

No

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 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.

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- If any vehicle should get stuck, the damage shall be repaired immediately so that no deep ruts 1.13 remain.
- Any damage to private property shall immediately be reported to Eskom and the owner. The 1.14 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 1.15 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.
- Washing and toilet facilities shall be provided on site and in the construction camp. The facilities 1.16 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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2 Special conditions	
(Specific issues identified during the scoping as needing attention i.e. erosion berms, bird flappers protected trees, etc.). Protected tree, Wetlands and Bushes(needs clearing)	•

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.
oss 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,
OCIAL IMPACTS	
flud and Dust	 wetting down dry soils, chemical control of dust, cleaning roads to remove mud, temporary planting of grasses,

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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.
Inconvenience	select route and method of installation to suit
inconvenience	landowners' conditions.
	- select timing of activity.
Heritage resources	- avoidance/isolation.
Tromage resources	- 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	- 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.
mpedance of natural flow	 use and maintenance of appropriate stream crossing
streams/others surface waters.	device.
onding or channelization of surface	 timing activities to stable ground conditions.
vaters due to rutting.	- use of gravel roads.
Contamination of surface or ground	- spill control material and procedures readily available.
vaters through spills or leaks of toxic	- site selection where possible.
ubstances.	
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.
Vind/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.