MLR 342407559 - CAPRICORN DISTRICT MUNICIPALITY

Document Classification: Controlled Disclosure

ENVIRONMENTAL IMPACT ASSESSMENT FOR

DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

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Annex B - Distribution Environmental Screening Document (DESD)

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	
have seen the completed documen	t and accept the
recommendations made	
	Assessor/s_
Form completed by TAMELS	S. Signature: Frank
n consultation with : Pourraijos	
CAPACITY (e.g. land owner, special	ist): Had Man
DATE COMPLETED: 2021 10	7/01

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!!!

This is not an office exercise.

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

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3 0 JUN 2021

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Annex B (continued)

1 Project description
Project name/Survey MLB342407559 / Request CAPRICAL DISTRICT MUNICIPALTAYea ROLATIANE Project number MLB 342407559 File number Rural scheme/
Feeder BOLOPA Voltage 11 kV Supply from TB 123A 115 /
(scheme name, pole numbers for tee-off) Supply to NAAUW POOR T 441 KS (Farm name, etc.)
2 Properties traversed
Farm name NAAUW POORT 441 KS Registration number and Division 441 KS Sub-division O Compilation number Line length (m) 761, 90 m Farm name
Registration number and Division
3 Brief description of the surrounding area
RESIDENTIAL AREA WITH SIGNS OF GRAZING
CONDITIONS ARE RELATINELY DRY
LOCATED CLOSE TO MAIN ROAD
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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Annex B (continued)
4 Physical environment
4.1 Water: streams rivers dams wetlands springs floodplains OTHER
Present condition: DKY
Potential impact (e.g. threat of pollution): NONE FOLESEGI J
4.2 Soil: sandy rocky clayey OTHER
Present condition: RELATIVELY SANDY
Potential impact (e.g. of erosion)NONS
4.3 Topography (mountains) ridges hills valleys ravines (dongas) OTHER
Present condition: THE AREA IS LOCATED CLOSE TO A MOUNTAIN SO THE TEKRAIN IS GENERALLY UNEVEN Potential impact (e.g. of erosion) NOME FORESEEN!
Comments/mitigating measures:
NONE

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Annex	В
(continue	d)

5 Natural er	vironment					
5.1 Flora:	indigenous	protec	ted ex	otic (OTHER . MA	
Brief description IS. QUITE Potential impact	and conservation DRY So (e.g. permit app	on status (e.g. ra THERE ISM dications .NON	re, etc., mention T. Muc.H. O.	trees/bush/grass THER THAM) THE AREA TREES AND I	Bush.
5.2 Fauna:	mamn	nals	birds	OTHE	R	
Brief description	and conservation	on status:				
(e.g. rare, protection THERE	oted, etc., mention AICE. ONLY	on giraffe, elepha CrDATS,	COWS AN	D SHEEP	n migratory paths) JW THE	
Potential impact	(e.g. threat of el	ectrocution, colli	sion, etc)			
Comments/mitig	ating				meas	ures:
NONE			•••••••			****
***************************************	*************************	· · · · · · · · · · · · · · · · · · ·	*******************		······	****
6 Social env	ironment					
6.1 Restricted areas:	nature/game reserves	hiking trails	tourism routes	s parks	recreational areas	
Residential- areas	green belts	sacred/holy grounds	OTHER	•••••		
Brief description	THE ARE	EA IS GEL GKAZINO	VERALLY (USED FOR	KESJOENITAL	PUK POSE S

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Potential impact e.g.	threat of encroach	Annex I (continued ment, etc)	J
6.2 Visual aesthetic	s: (easily seen)	hidder	 1	partially
ROAD HOW	EVEK, FROM DIFFICULT AND THE A	THE ALTER	NATEVE RO BECAUSE TH ALLY HIDDEN	
6.3 Natural heritage	cultural significance graves	archaeological objects meteorites	monuments ruins	palaeontological objects OTHER
Note: Should any r Resource Act, No 25 the SAHRA. If line or	of 1999 be identific	ed, the requirement	s of Act 25 of 1999	ned in the National Heritage shall be followed by notifying notified.
Potential impact	THE LINE	EXCEEDS	300rh	
Comments/mitigating				
	rops ame farming	orchards forestry areas	grazing mining	crop spraying OTHER
Brief description	HE AREA]	S. USED FO	C.GRAZIN	5

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Annex B (continued)

Potential impact	JONE		
7.1.1 Commercial:	factories	shops	OTHER
Potential impact A. C	INE HORESE	EN	ED IN THE VALLAGE
7.1.2 Infrastructure:	roads		ons power lines air fields
AKEA AMP	THE MAI GRAVEL ME FORES	GE IS LOCATED AR N ROAD HOWEVER EEN	VERLINE IN THE OUT A KILOMETER WITHIN THE VILLAGE
Comments/mitigating	measures:		
***********************	******		

Document Classification: Controlled Disclosure **ENVIRONMENTAL IMPACT ASSESSMENT FOR** Unique Identifier: 240-72597722 **DISTRIBUTION ACTIVITIES** Revision: 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 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 NO **Detailed study** Is an environmental assessment required in terms of Regulation R543?

Yes No No

Should a permit application be made to DWA?

Yes No _//0

Should the SAHRA be notified?

Yes <u>YES</u>

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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.
- 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.
- 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.
- 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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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.

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Annex C (continued)

2 Special cond	litions						
(Specific issues id protected trees, etc	entified during	he scoping	as needi	ng attention	i.e. erosion	berms, bird	flappers,
NONE	***************************************	•••••••	••••••		***************************************		
		• • • • • • • • • • • • • • • • • • • •	*******		******************	•••••	
				.,			

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

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Annex C (continued)

Aesthetics	Topography with material of J. 1. 1. 1. 1. 1.
Aestrietics	- 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.
Heritage resources	- 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. design measures to make facility less obtrusive of
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	- schedding to avoid peak use periods.
Sedimentation of streams due to	- minimise use of slopes adjacent to streams during soils
erosion from the right-of way.	testing, construction and maintenance.
or out of way.	- 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.	site selection where possible.
Soil compaction/topsoil-subsoil mixing.	- avoidance of rutting by vehicles where possible.
	- construction timing.
	- use of gravel roads.
1	 use of yehicles 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.