SYIGADI M. Bunita dentifier: TELEFAX 013 25

Document Classification: Controlled Disclosure

ENVIRONMENTAL IMPACT ASSESSMENT FO DISTRIBUTION ACTIVITIES

240-72397722

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Reticulation Powerlines and Ancillary Socrices

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

Form completed by

Signature:

in consultation with: XMAILALA K. Signature: Alkerte

CAPACITY (e.g. land owner, specialist): Secre1n,24 DATE COMPLETED: 2,9/10/201

Instructions

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

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Annon S (continued)

d Project de	ខិ នពីស្រីពីតិវា	
Project number Rural scheme/ Feeder	MALDI/ABABIEDAM A MM2/49/8/3 pole numbers for tee-off) MIES	Area Monstalus File number Voltage 22 KU SONTEIN 871 KS
2 Properties		
Farm name	nber and Division Line ler	Sub-division
Compilation pur	wher	ngth/Site area (m²)
Compliation nati	Hoer	
	Residential asse	2.c ₄
aspects?		e constrained by any of the following environmental
Encircle the appossible negative	propriate aspect, giving a description ve impact. Note that mitigating meas I Management Programme.	of the present state as well as an indication of the sures for these impacts are to be included in the

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ennan ∂ (continued)

4 Physical	รถพ่าจกกรก	Ė					
4.1 Water	streams rive	ers dams	wellands	springs	floodplains	OTHER	
Present condi	ition:					_,	**************************************
Potential impa	act (e.g. threat o	f pollution):	••••••	.,			
,	.,	***************************************			••••••		
	•••••						
4.2 Sell:	sandy	ľ	ocky	claye	y)	OTHER	
Present cond	ition: Jouy	y Sej	<i>I</i>			- 172 12	
*,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	act (e.g. of erosi	on)	*************				
Present cond	ition: Ala	4 ferrai	~				
Potential imp	act (e.g. of erosi	on) 1	Linal				
Comments/m	nitigating measur	es:					
		,					

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Annex E (continued) 3 Hagural anvironment 5.1 Flora: Indigenous protected exotic OTHER Brief description and conservation status (e.g. rare, etc., mention trees/bush/grass) Potential impact (e.g. permit applications 1/0 Molected 43/065 , OTHER birds J.? Fauma: manimals Brief description and conservation status: (e.g. rare, protected, etc., mention giraffe, elephants, eagles, vultures, etc., mention migratory paths) Wasterling Carrier Potential impact (e.g. threat of electrocution, collision, etc)..... Minal Comments/mitigating 6 Social environment recreational nature/game hiking trails tourism routes parks 6.1 Restricted areas areas: reserves OTHER Residentialgreen belts sacred/holy grounds areas Brief description

Environmental impact assessment for Distribution activities			Unique Ide	ntifier: 240-72597723
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		രുണ്ടവർ (confinued)		
Potential Impact e.g.	threat of encroach	ment, etc	***************************************	
iteritses laualV 9.6	cs: Jeasily seen	hidden		partially
Brief description	<i>9</i> 38//y	Seen		
Potential impact			• • • • • • • • • • • • • • • • • • • •	
6.3 Natural haritag	e: cultural significance	archaeological objects	monuments	palaeontological objects
	graves	meteorites	ruins	OTHER
rlote: Should any Resource Act, No 25 the SAHRA. If line of	of 1999 be identifi	ed, the requirements	of Act 25 of 1999	ed in the National Heritage shall be followed by notifying ottified.
Potential Impact				
			•••••	
Comments/mitigating	measures			
7 Economic env	dronment		•••••••	••••••••••
7.1 Land use:	crops	orchards	grazing	crop spraying
	game farming	forestry areas	mining	OTHER
•	Man	f . / .		
Brief description	Ves (&			

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Arman ঐ (continued)

Pote	ntial impact	Vestolenti	at M	inimal		
7.1.1	Commarcial:	factories		shops	OTHER	
Pote	ntial impact					
	infrestructure:	-111		OTHER SE	power lines zir fields	
Brief	description:	sont	Telkon	poser cires	ad far road	
	ntial impact	gimmel				

•••••						
• • • • • •		• • • • • • • • • • • • • • • • • • • •				••••

Document Classification: Controlled Disclosure Environmental impact assessment for Unique Identifier: DISTRIBUTION ACTIVITIES Revision: Page: ā menne. (continued) What impact will this project have on elements 4 to 7? Fhysical High impact (4) Medium impact (2) No impact (0) Natural High impact (4) Medium impact (2) ylo impact (0). 3. Social High impact (4) No impact (0) ivledium impact (2) Overall impact: This section addresses the overall environmental impact of the project. The impacts as above three spheres (physical, natural and social) need to be considered to determine the -0 2 High Impact No impact Medium impaci If the overall impact is between 2 and 4, contact the Environmental Management Environmental Senior Superintendent. Alternatives Have alternative routes been discussed with the relevant land owner/s or users? Yes Νo Detailed study Is an environmental assessment required in terms of Regulation R543? Yes įΝο Should a permit application be made to DWA?

Yes

No

Should the SAHRA be notified?

ESAS S

Yes

No

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Amnam C - Amvironmantal Blanagamant Plans (Normative)

d. Canaral conditions

- 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 courtecus towards landowners, tenants and the local community.
- 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.
- 1.41 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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- 1.18 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 vaste 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 tollet 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 yeld. If no tollet 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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A. 6的图象)与 (continued)

2 Special conditions	
(Specific issues identified during the scoping as needing attention i.e. erosion ber protected trees, etc.).	ms, 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 fower 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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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 advence of site completion select route and method of installation to suit landowners' conditions, - select liming of activity avoidance/sisolation design measures to make facility less obtrusive screening alternate methods of aquipment protection by use of enclosures, barrier fencing, covoring salvage in conjunction with SAHRA 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 - Sedimentation of streams due to erosion from the right-of way relain buffers mechanical erosion control retain buffers mechanical erosion control retain buffers mechanical erosion control retain buffers produce of natural flow streams/others surface waters Ponding or channelization of surface or ground waters through spills or leaks of toxic 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 slope stabilisation mechanical erosion control retain processor of ground conditions are poor avoidance of reas with high erosion potential timing activities to the most stable ground conditions slope stabilisation mechanical erosion control retain processor of ground conditions are poor avoidance of areas with high erosion potential timing activities to the most stable ground conditions slope stabilisation mechanical erosion control vegetation erosion control.		(continued)
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Over the parties of the first o	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.
		- avoid trenching parallel to the fall of a slope.