ENVIRONMENTAL IMPACT ASSESSMENT FOR

Unique Identifier:

240-72597722

DISTRIBUTION ACTIVITIES

Revision:

1

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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 - Milabeleug
I have seen the completed document and accept the make a seen the completed document and accept the make a seen the completed document and accept the make a seen the completed document and accept the make a seen the completed document and accept the make a seen the completed document and accept the make a seen the completed document and accept the make a seen the completed document and accept the make a seen the completed document and accept the make a seen the completed document and accept the make a seen the completed document and accept the make a seen the completed document and accept the make a seen the complete and accept the complete and a
Form completed by M. Muscushosignature:
in consultation with: M. K. Signature:
CAPACITY (e.g. land owner, specialist):

Instructions

- 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.

Document Classification: Controlled Disclosure Unique Identifier: 240-72597722 ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES Revision: 19 of 70 Page: Annex B (continued) 1 Project description Project name/Survey Request Project number Rural schemel Voltage,... Feeder Supply from (scheme name, pole numbers for tee-off)
Supply to (Farm name, etc.) 2 Properties traversed

Registration number and Division

Compilation number

Line length/Site area (m²)

3 Brief description of the surrounding area

The proposite MU line Will Gross Be built from pale Sna 3213 There are not

treas to Cust I to M

Farm name

Farm name

Registration number and Division ..

Could the proposed project have an impact on or be constrained by any of the following environmental aspects?

...... Sub-division

\(\sigma\)...... Line length (m).....

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.

The Instance of the the the the the the the transfer of the transfer of the parameters of the parameters of the the the the the the transfer of the transfer o

Document Classification: Controlled Disclosure **ENVIRONMENTAL IMPACT ASSESSMENT FOR** Unique Identifier: 240-72597722 DISTRIBUTION ACTIVITIES Revision: 1 Page: 20 of 70 Annex B (continued) 4 Physical environment OTHER HIP floodplains 4.1 Water: streams wetlands springs dams Potential impact (e.g. threat of pollution): 4.2 Soil: sandy rocky clayey OTHER Potential impact (e.g. of erosion) 4.3 Topography mountains ridges hills valleys ravines dongas Present condition: ... Potential impact (e.g. of erosion) Comments/mitigating measures:

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		Α :-	nex B				
			ntinued)				
5 Natural env	ironment					V 0.4.0	
5.1 Flora:	indigenous	protected		exotic	OTH	ER MIA	
Brief description a	and conservation	status (e.g. rare,	etc., mentio	n trees/bus	h/grass)	HID	
Potential impact (e.g. permit appli	cationsX	Ω				
5.2 Fauna:	mamma	als	birds		OTHER .		
Brief description a (e.g. rare, protect Potential impact (ed, etc. mention	giraffe, elephant			mention m	igratory paths)	
Comments/mitiga	ting	, 41	В			measures:	
6 Social envi	ronment						
6.1 Restricted areas: Residential-areas	nature/game reserves green belts	hiking trails sacred/holy grounds	OTHER		parks	recreational areas	
Brief description	Kosider	19101	A.C.	_ 			

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Potential impact e.g. thre	eat of encroachn	Annex B (continued)	MIA			
6.2 Visual aesthetics: (easily seen	hidden	I	partially		
Brief description	se to	9 100	iO			
Potential impact	HV	Ą				
	cultural significance graves	archaeological objects meteorites	monuments	palaeonto objects OTHER	plogical NIA	
Note: Should any natu Resource Act, No 25 of 1 the SAHRA. If line or ac	999 be identifie		of Act 25 of 1999	shall be follo		
Potential impact		1117				
Comments/mitigating mea		MA				
7 Economic enviro	nment					
7.1 Land use: crop	es e farming	orchards forestry areas	grazing mining	crop sp	oraying R	
Brief description		MIP)			

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Potential impact	MA				
7.1.1 Commercial:	factories	;	shops	OTHER	MID
Brief description Potential impact	MI	A MIB			
7.1.2 Infrastructure: Brief description:	pipelines	(1)	communications OTHER IN(1)		
Potential impact		C(D			
				A CONTRACTOR OF THE CO	

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What impact will this 1. Physical	project have on elements 4 to	7?		
No impact (0)	Medium impact (2)	High ir	mpact (4)	
2. Natural				
No impact (0)	Medium impact (2)	High ir	mpact (4)	
3. Social				
No impact (0)	Medium impact (2)	- High in	mpact (4)	
		need to be co		
	ct is between 2 and 4, co			nent Officer or the
Alternatives				
Have alternative rout	es been discussed with the re	levant land o	wner/s or users?	
Yes Y				
Detailed study				
Is an environmental a	assessment required in terms	of Regulation	R543?	
Yes				
Should a permit appli	ication be made to DWA?			
Yes Y				
Should the SAHRA b	e notified?			
YesX				

No

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Annex C - Environmental Management Plan (Normative)

1 General 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.
- No fences, gates or locks shall be damaged to obtain access onto a line route. Arrangements 1.2 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 1.3 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 1.4 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.
- Permission shall be obtained from landowners before any water is used. 1.5
- 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 1.6 in the veld.
- If activities that can cause a fire are carried out, fire extinguishers shall be available on site and in 1.7 the construction camp.
- No property may be accessed after normal working hours except with the permission of the 1,8 landowner. Privacy shall be respected at all times.
- Eskom, Eskom's contractors and their employees shall at all times be courteous towards 1.9 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 1.10 local community shall be avoided. Should conflict arise it shall be immediately reported to the Eskom project manager or co-ordiator.
- Vehicles shall be driven at a moderate speed on private roads and stay within the statutory speed 1.11 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 1.12 veld. Special care shall be taken to prevent excess damage during wet weather.

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- 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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2 Special conditions										
(Specific issues identified protected trees, etc.).	during th	ne scopino) as	needing	attention	i.e.	erosion	berms,	bird	flappers,
										10100

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	The state of the s
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 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 Sedimentation of streams due to 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. 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 streams/others surface waters. Ponding or channelization of surface waters due to rutting.	use and maintenance of appropriate stream crossing device. 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.
Wind/water erosion.	 stop activities when 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. recompaction of trenches. avoid trenching parallel to the fall of a slope.