ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

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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 a	and accept the
recommendations made	
Form completed by NEISHINON in consultation with: Mojapelo CAPACITY (e.g. land owner, specialist DATE COMPLETED:	MB Signature: Jacob 19

Instructions

- 1. Fill the report in as neatly and completely as possible.
- 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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1 Project description
Project name/Survey Request B/O-AGNO-6-OPERATIVE Project number MPB 773 7.69733 File number
Rural scheme/ Feeder SY/CSCS Voltage // LJ
Supply from 65.53
(scheme name, pole numbers for tee-off) Supply to
(Farm name, etc.)
2 Properties traversed
LAGIEN VIIII
Farm name
Registration number and Division 100/ Sub-division Sub-division Compilation number 25 39 Line length (m) Sub-division
Farm name
Farm name Registration number and Division Compilation number Interior (m) Sub-division Sub-division Interior (m²)
Farm name
3 Brief description of the surrounding area
7991, sandy, acacie cultivation area.
1/97, 540019, acces Castilou 1 600 Giff.
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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4 Physica	l environmen	t				
4.1 Water:	streams rive	rs dams	wetlands	springs flo	odplains	OTHER A
Present condi	tion:	Dry		•••••••••••		
Potential impa	ct (e.g. threat of	pollution):	*****		****	
	N	*	mpaet		• • • • • • • • • • • • • • • • • • • •	
4.2 Soil:	sand	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	cky	clayey	OTH	IER
Present condition	on: Hard	Sand	9 60	-7.		the same of the sa
Potential impac	t (e.g. of erosion	·······)	N	Cupse	7	*****************
4.3 Topograph			nills valleys	ravines do	ngas OT	HER Flat
Present condition	on: Very	Ha	l ar	elv	************	
Potential impact	(e.g. of erosion)	······································	No	lupe	H	
Comments/mitig				1		
********************	********************		****************			
	~	6	[GMQ1	+		***********************
		*****************			**************	*
		ing Taga				***************************************
	*********************		***			**************
		4		* **********************		************

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			· · · · · · · · · · · · · · · · · · ·	
	•	Annex (continue		
5 Natural en	/ironment		•	
5.1 Flora:	indigenous	protected	exotic	OTHER
Brief description a	and conservation sta	atus (e.g. rare, etc., m	nention trees/bus	h/grass)
Potential impact (e.g. permit applicati	ons plane	*	1
**********************	A	10 plane	1 reju	ucol
5.2 Fauna:	lammals	birds	(OTHER
Brief description a	nd conservation sta	tus:		
(e.g. rare, protecte	ed, etc., mention gire	iffe, elephants, eagle:	s, vultures, etc.,	mention migratory paths)
Dowesh	i ani	-l:-	2	9
	.g. threat of electros	cution, collision, etc)	y	762:
(0	-aa out or ciccitot	when the composition of the contract of the co		***************************************

	*
(Vo	(uplet
Comments/mitigating	,
	measures:
No permi	1
ρομο	1 equires
S Social environment	

6.1 Restricted areas:

nature/game reserves

hiking trails

tourism routes

parks

recreational areas

Residentialareas

green belts

sacred/holy

grounds

Brief description

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Annex B (continued) Potential impact e.g. threat of encrochment, etc. 2.2 Visual aesthetics: easily seen hidden partially				revision.	1
Potential impact e.g. threat of encro-chiment, etc. 3.2 Visual aesthetics: easily seen hidden partially			· · · · · · · · · · · · · · · · · · ·	Page:	ŽŽ 01 70
Anier description The lare faller along the Potential impact Totential impact Tot			, (continue	d)	
Asign and the state of the second and the second an	Potential impact e.g. t	hreat of encrose	hment, etc		
S.3 Natural heritage: cultural significance objects objects objects objects objects objects objects or meteorites ruins OTHER. Cold objects objects or meteorites ruins OTHER. Cold objects or meteorites of Act 25 of 1999 shall be followed by the SAHRA. If line or access road length exceeds 300m SAHRA shall be notified. The comments/mitigating measures or considerable or comments of Act 25 of 1999 shall be followed by the SAHRA shall be notified. The comments of Act 25 of 1999 shall be followed by the SAHRA shall be notified. The comments of Act 25 of 1999 shall be followed by the SAHRA shall be notified. The comments of Act 25 of 1999 shall be followed by the SAHRA shall be notified. The comments of Act 25 of 1999 shall be followed by the SAHRA shall be notified.	6.2 Visual aesthetic	s: easily seen	hidde		partially
As Natural heritage: cultural archaeological thonuments palaeontological objects objects objects graves meteorites ruins OTHER	Brief description	ie lué neld	Faers	u alou	y the
Sa Natural heritage: cultural archaeological imonuments palaeontological objects objects graves meteorites ruins OTHER. Note: Should any natural heritage resource as listed above, or as defined in the National desource Act, No 25 of 1999 be identified, the requirements of Act 25 of 1999 shall be followed by the SAHRA. If line or access road length exceeds 300m SAHRA shall be notified. Ottential impact Concerns C			₽ð	histalt	
lote: Should any natural heritage resource as listed above, or as defined in the National desource Act, No 25 of 1999 be identified, the requirements of Act 25 of 1999 shall be followed by the SAHRA. If line or access road length exceeds 300m SAHRA shall be notified. Otential impact Omments/mitigating measures Economic environment Orchards grazing crop spraying game farming forestry areas mining OTHER.		cultural	archaeological	monuments	objects
lote: Should any natural heritage resource as listed above, or as defined in the National desource Act, No 25 of 1999 be identified, the requirements of Act 25 of 1999 shall be followed by the SAHRA. If line or access road length exceeds 300m SAHRA shall be notified. Otential impact Omments/mitigating measures Economic environment Orchards grazing crop spraying game farming forestry areas mining OTHER.		graves	meteorites	ruins	OTHER CIHA
Land use: crops orchards grazing crop spraying game farming forestry areas mining OTHER	otential impact	access road ten	ed, the requirement igth exceeds 300m	s of Act 25 of 1999 SAHRA shall be	o shalf be followed by no notified.
1 Land use: crops orchards grazing crop spraying game farming forestry areas mining OTHER	Economic anviv		energy	w L	required
game farming forestry areas mining OTHER	ENVIORNE GIVIL	ominent	,		•
orient	1 Land use: Cro	De	orchards	grazing	crop spraying
ef description. The own is used to place	gar	ne farming	forestry areas	mining	OTHER
Creps.	ief description	e ow	ce v	word	to plan
	V	e 15:			

 $\label{eq:definition} \operatorname{Hom}(\mathcal{H}^{n}_{\mathcal{G}}) = \operatorname{Con}^{n}(\mathcal{H}^{n}_{\mathcal{G}}) + \operatorname{Con}^{n}(\mathcal{H}^$

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Potential impact		AA			
7.1.1 Commercial:	factories		shops	OTHER .	Ma
Brief description Potential impact		A			
	***************************************		\sim \sim	***************************************	
7.1.2 Infrastructure:	oad) pipelines	railways sewage	communications	power lines	air fields
Brief description: Co	ravel	verio	tellan	low	•
Potential impact		r	10 Jug	oel	
Comments/mitigating n	neasures:				
	••••••		No		********
		***************************************		·····	

Objects of New Commission Co.

Document Classification: Controlled Disclosure **ENVIRONMENTAL IMPACT ASSESSMENT FOR** 240-72597722 Unique Identifier: **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 Mo impact (0) Medium impact (2) High impact (4) Social vo impagt (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 Medium impact No 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 No Should a permit application be made to DWA?

Control and stage and

Yes

Yes No

Should the SAHRA be notified?

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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.
- 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.

KIRKAN CIDA KANTEN FARA BELATE

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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 conditions

(Specific	issues	identified	during	the	scoping	as	needing	attention	i.e.	erosion	berms.	bird	flanners
protected	trees.	etc.).					_						mappo.c.

CIHA excupto: repured

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 an
	 wetting down dry soils. chemical control of dust. cleaning roads to remove mud. temporary planting of grasses.

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	(continued)
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
	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.
· .	
•	parety productions to protect the public,
WATER QUALITY	- scheduling 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.
•	- 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.	device.
Ponding or channelization of surface	
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	
substances.	and delegated where possible.
Soil compaction/topsoil-subsoil mixing.	- avoidance of rutting by vehicles where possible.
our companion toponion out out in mining.	- construction timing.
and the second s	- use of gravel roads.
	- use of vehicles with low bearing pressures.
	- stop activities when ground conditions are poor.
Wind/water erosion.	- avoidance of areas with high erosion potential.
Wind/water erosion.	timing activities to the most stable ground conditions.
	- slope stabilisation.
â.	- stope stabilisation mechanical erosion control.
i de la companya de	- vegetation erosion control.
	- recompaction of trenches avoid trenching parallel to the fall of a slope.
· ·	I - avoid trenching parallel to the fall of a slope.